

MEGACLEAN

RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

1.1. Productidentificatie

Productnaam	: MEGACLEAN
Registratienummer REACH	: 01-2119457290-43-0000
Producttype REACH	: Stof/mono-constituent
CAS-nummer	: 78-93-3
EG-catalogusnummer	: 606-002-00-3
EG-nummer	: 201-159-0
Moleculaire massa	: 72.11 g/mol
Brutoformule	: C4H8O

1.2. Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik

1.2.1 Relevant geïdentificeerd gebruik

Titel blootstellingsscenario	Groep blootstellingsscenario	Gebruikssector	Gebruiksbeschrijving (PROC of PC)	Gebruiksbeschrijving (ERC)
ES01 Vervaardiging van de stof	Industrieel	SU 3	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 1
	Industrieel	SU 3	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 4
	Industrieel	SU 8	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 1
	Industrieel	SU 8	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 4
	Industrieel	SU 9	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 1
	Industrieel	SU 9	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 4
ES02 Gebruik als een tussenproduct	Industrieel	SU 3	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 6a
	Industrieel	SU 8	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 6a
	Industrieel	SU 9	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 6a
ES03 Verspreiding van de stof	Industrieel	SU 3	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 1
	Industrieel	SU 3	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industrieel	SU 3	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 3
	Industrieel	SU 3	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 4
	Industrieel	SU 3	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 5
	Industrieel	SU 3	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 6a
	Industrieel	SU 3	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 7
	Industrieel	SU 8	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 1
	Industrieel	SU 8	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industrieel	SU 8	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 3
	Industrieel	SU 8	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 4
	Industrieel	SU 8	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 5

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ES03 Verspreiding van de stof	Industrieel	SU 8	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 6a
	Industrieel	SU 8	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 7
	Industrieel	SU 9	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 1
	Industrieel	SU 9	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industrieel	SU 9	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 3
	Industrieel	SU 9	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 4
	Industrieel	SU 9	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 5
	Industrieel	SU 9	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 6a
	Industrieel	SU 9	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 7
ES04 Formuleren & (her)verpakken van stoffen en mengsels	Industrieel	SU 10	PROC 1, PROC 14, PROC 15, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industrieel	SU 3	PROC 1, PROC 14, PROC 15, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9	ERC 2
ES05 Gebruik in coatings	Industrieel	SU 3	PROC 1, PROC 10, PROC 13, PROC 15, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b	ERC 4
ES06 Gebruik in coatings	Professioneel	SU 22	PROC 1, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b	ERC 8a
	Professioneel	SU 22	PROC 1, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b	ERC 8d
ES07 Gebruik in Reinigingsmiddelen	Industrieel	SU 3	PROC 1, PROC 10, PROC 13, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b	ERC 4
ES08 Gebruik in Reinigingsmiddelen	Professioneel	SU 22	PROC 1, PROC 10, PROC 11, PROC 13, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 8a
	Professioneel	SU 22	PROC 1, PROC 10, PROC 11, PROC 13, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 8b
ES09 Smeermiddelen	Industrieel	SU 3	PROC 1, PROC 10, PROC 13, PROC 17, PROC 18, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 9	ERC 4
	Industrieel	SU 3	PROC 1, PROC 10, PROC 13, PROC 17, PROC 18, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 9	ERC 7
ES10 Metaalbewerkingsvloeistoffen/walsoliën	Industrieel	SU 3	PROC 1, PROC 10, PROC 13, PROC 17, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9	ERC 4
ES11 Gebruik in landbouwchemicaliën	Professioneel	SU 22	PROC 1, PROC 11, PROC 13, PROC 2, PROC 4, PROC 8a, PROC 8b	ERC 8a
	Professioneel	SU 22	PROC 1, PROC 11, PROC 13, PROC 2, PROC 4, PROC 8a, PROC 8b	ERC 8d
ES12 Gebruik als brandstof	Industrieel	SU 3	PROC 1, PROC 16, PROC 2, PROC 3, PROC 8a, PROC 8b	ERC 7
ES13 Gebruik als brandstof	Professioneel	SU 22	PROC 1, PROC 16, PROC 2, PROC 3, PROC 8a, PROC 8b	ERC 9a
	Professioneel	SU 22	PROC 1, PROC 16, PROC 2, PROC 3, PROC 8a, PROC 8b	ERC 9b
ES14 Gebruik in laboratoria	Industrieel	SU 3	PROC 10, PROC 15	ERC 2
	Industrieel	SU 3	PROC 10, PROC 15	ERC 4
ES15 Gebruik in laboratoria	Professioneel	SU 22	PROC 10, PROC 15	ERC 8a
ES16 Gebruik in coatings	Consument	SU 21	PC 1, PC 15, PC 18, PC 23, PC 24, PC 31, PC 34, PC 4, PC 8, PC 9a, PC 9b	ERC 8a
	Consument	SU 21	PC 1, PC 15, PC 18, PC 23, PC 24, PC 31, PC 34, PC 4, PC 8, PC 9a, PC 9b	ERC 8d

Reden van herziening: 2; 3; 5; 16

Publicatiedatum: 2002-11-06

Datum van herziening: 2017-05-15

Herzieningsnummer: 0701

Productnummer: 38712

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ES17 Gebruik in Reinigingsmiddelen	Consument	SU 21	PC 24, PC 35, PC 9a, PC 9b	ERC 8a
	Consument	SU 21	PC 24, PC 35, PC 9a, PC 9b	ERC 8d
ES18 Smeermiddelen	Consument	SU 21	PC 1, PC 24, PC 31	ERC 8a
	Consument	SU 21	PC 1, PC 24, PC 31	ERC 8d
	Consument	SU 21	PC 1, PC 24, PC 31	ERC 9a
	Consument	SU 21	PC 1, PC 24, PC 31	ERC 9b
ES19 Gebruik in landbouwchemicaliën	Consument	SU 21	PC 12, PC 27	ERC 8a
	Consument	SU 21	PC 12, PC 27	ERC 8d
ES20 Gebruik als brandstof	Consument	SU 21	PC 13	ERC 9a
	Consument	SU 21	PC 13	ERC 9b

1.2.2 Ontraden gebruik

Groep	Ontraden gebruik	Gebruiksbeschrijving (PC)	Milieu-emissiecategorie (ERC)	Voorwerp (AC)
	Geen ontraden gebruiken			

1.3. Details betreffende de verstrekker van het veiligheidsinformatieblad

Verstrekker van het veiligheidsinformatieblad

Novatio*
 Industrielaan 5B
 B-2250 Olen
 ☎ +32 14 25 76 40
 📠 +32 14 22 02 66
 info@novatio.be
 *NOVATIO is a registered trademark of Novatech International N.V.

Fabrikant van het product

Novatech International N.V.
 Industrielaan 5B
 B-2250 Olen
 ☎ +32 14 85 97 37
 📠 +32 14 85 97 38
 info@tec7.be

1.4. Telefoonnummer voor noodgevallen

24u/24u (Telefonisch advies: Engels, Frans, Duits, Nederlands):
 +32 14 58 45 45 (BIG)

RUBRIEK 2: Identificatie van de gevaren

2.1. Indeling van de stof of het mengsel

Ingedeeld als gevaarlijk overeenkomstig de criteria van Verordening (EG) nr. 1272/2008

Klasse	Categorie	Gevarenaanduidingen
Flam. Liq.	categorie 2	H225: Licht ontvlambare vloeistof en damp.
Eye Irrit.	categorie 2	H319: Veroorzaakt ernstige oogirritatie.
STOT SE	categorie 3	H336: Kan slaperigheid of duizeligheid veroorzaken.

2.2. Etiketteringselementen



Signaalwoord

Gevaar

H-zinnen

H225 Licht ontvlambare vloeistof en damp.
 H319 Veroorzaakt ernstige oogirritatie.
 H336 Kan slaperigheid of duizeligheid veroorzaken.

P-zinnen

P210 Verwijderd houden van warmte, hete oppervlakken, vonken, open vuur en andere ontstekingsbronnen. Niet roken.
 P280 Beschermende handschoenen en oogbescherming/gelaatsbescherming dragen.

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P304 + P340	NA INADEMING: de persoon in de frisse lucht brengen en ervoor zorgen dat deze gemakkelijk kan ademen.
P303 + P361 + P353	BIJ CONTACT MET DE HUID (of het haar): verontreinigde kleding onmiddellijk uittrekken. Huid met water afspoelen of afdouchen.
P305 + P351 + P338	BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.
P403 + P233	Op een goed geventileerde plaats bewaren. In goed gesloten verpakking bewaren.
Aanvullende informatie	
EUH066	Herhaalde blootstelling kan een droge of een gebarsten huid veroorzaken.

2.3. Andere gevaren

Verspreiden van gas/damp langs de grond: ontstekingskans
Opgepast! Wordt opgenomen door de huid

RUBRIEK 3: Samenstelling en informatie over de bestanddelen

3.1. Stoffen

Naam REACH Registratienr.	CAS-nr. EG-nr.	Conc. (C)	Indeling volgens CLP	Voetnoot	Opmerking
butanon 01-2119457290-43	78-93-3 201-159-0	C>99%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Mono-constituent

(1) Voor volledige tekst van H-zinnen: zie rubriek 16

(2) Stof waarvoor binnen de Gemeenschap een blootstellingsgrens op de werkvloer geldt

(10) Onderworpen aan beperkingen van Bijlage XVII van Verordening (EG) nr. 1907/2006

3.2. Mengsels

Niet van toepassing

RUBRIEK 4: Eerstehulpmaatregelen

4.1. Beschrijving van de eerstehulpmaatregelen

Algemeen:

Controleer de vitale functies. Indien bewusteloos: zorg voor vrije luchtwegen. Bij ademhalingsstilstand: kunstmatige ademhaling of zuurstof. Bij hartstilstand: reanimeer het slachtoffer. Bewust slachtoffer met ademhalingsmoeilijkheden: halfzittend. Bij shock: bij voorkeur: rugligging met de benen omhoog. Bij braken: voorkom verstikking/aspiratiepneumonie. Voorkom afkoeling door toedekken (niet opwarmen). Blijf het slachtoffer observeren. Verleen psychologische bijstand. Hou het slachtoffer rustig, vermijd inspanningen. Afhankelijk van de toestand: arts/ziekenhuis.

Na inademen:

Breng het slachtoffer in de frisse lucht. Bij ademhalingsproblemen: arts/medische dienst raadplegen.

Na contact met de huid:

Onmiddellijk met veel water spoelen. Gebruik van zeep toegestaan. Geen (chemisch) neutralisatiemiddel gebruiken. Slachtoffer naar arts brengen als irritatie aanhoudt.

Na contact met de ogen:

Onmiddellijk met veel water spoelen. Contactlenzen verwijderen, indien mogelijk. Blijven spoelen. Geen neutralisatiemiddel gebruiken. Slachtoffer naar oogarts brengen als irritatie aanhoudt.

Na inslikken:

Mond spoelen met water. Zo vlug mogelijk na innamen: veel water laten drinken. Niet laten braken. Medicinale houtskool toedienen. Indien men zich onwel voelt: medische dienst/arts raadplegen.

4.2. Belangrijkste acute en uitgestelde symptomen en effecten

4.2.1 Acute symptomen

Na inademen:

Neusslijmvliesirritatie. Misselijkheid. Hoofdpijn. BIJ BLOOTSTELLING AAN HOGE CONCENTRATIES: Irritatie luchtwegen. Depressie centraal zenuwstelsel. Duizeligheid. Verwarring. Bedwelming. Bewustzijnsstoornissen.

Na contact met de huid:

Rode huid. NA LANGDURIGE BLOOTSTELLING/CONTACT: Droge huid. Gebarsten huid.

Na contact met de ogen:

Irritatie van het oogweefsel. Ontsteking/aantasting oogweefsel.

Na inslikken:

NA INNAME VAN GROTE HOEVEELHEDEN: Zelfde symptomen als na inademing. Kans op aspiratiepneumonie.

4.2.2 Uitgestelde symptomen

Geen effecten bekend.

4.3. Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling

Indien van toepassing en beschikbaar, wordt dit hieronder weergegeven.

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RUBRIEK 5: Brandbestrijdingsmaatregelen

5.1. Blusmiddelen

5.1.1 Geschikte blusmiddelen:

Kleine brand: ABC-poedersnelblusser, BC-poedersnelblusser, Klasse B schuimsnelblusser, CO2-snelblusser.
Grote brand: Klasse B schuim (alcoholbestendig), Verneveld water indien plas niet kan uitbreiden.

5.1.2 Gevaarlijke blusmiddelen:

Kleine brand: Water (snelblusser, haspel); gevaar voor plasuitbreiding.
Grote brand: Water; gevaar voor plasuitbreiding.

5.2. Speciale gevaren die door de stof of het mengsel worden veroorzaakt

Bij verbranding: vorming van CO en CO2. Bij verhitting: peroxidevorming met verhoogde kans op brand/explosie.

5.3. Advies voor brandweerlieden

5.3.1 Instructies:

Afgesloten verpakkingen die aan het vuur blootgesteld zijn met water koelen. Lading niet verplaatsen indien aan hitte blootgesteld.

5.3.2 Speciale beschermende uitrusting voor brandweerlieden:

Handschoenen. Nauwaansluitende bril. Beschermende kleding. Bij verhitting/verbranding: ademluchttoestel.

RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

6.1. Persoonlijke voorzorgsmaatregelen, beschermingsmiddelen en noodprocedures

Motoren afzetten en niet roken. Geen open vuur en vonken. Vonkvrije/explosie veilige apparatuur/verlichting gebruiken.

6.1.1 Beschermende uitrusting voor andere personen dan de hulpdiensten

Zie rubriek 8.2

6.1.2 Beschermende uitrusting voor de hulpdiensten

Handschoenen. Nauwaansluitende bril. Beschermende kleding.

Geschikte beschermkleding

Zie rubriek 8.2

6.2. Milieuvorzorgsmaatregelen

Vrijkomend product opvangen. Morsvloestof indammen. Verdamping trachten te beperken. Binnendringen in riool verhinderen.

6.3. Insluitings- en reinigingsmethoden en -materiaal

Morsvloestof absorberen in niet brandbaar absorptiemiddel o.a.: kiezelgoer, gemalen kalksteen of droog zand/vermiculiet/droge aarde. Geabsorbeerd product opscheppen in afsluitbare vaten. Morsstof/restant zorgvuldig verzamelen. Bevuilde oppervlakken reinigen met een overmaat water. Verzameld product overdragen aan producent/bevoegde dienst. Na werkzaamheden kleding en materiaal reinigen.

6.4. Verwijzing naar andere rubrieken

Zie rubriek 13.

RUBRIEK 7: Hantering en opslag

De informatie in deze rubriek is een algemene beschrijving. Indien van toepassing en beschikbaar worden de blootstellingsscenario's in de bijlage opgenomen. U dient steeds de relevante blootstellingsscenario's te gebruiken die overeenkomen met uw geïdentificeerd gebruik.

7.1. Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel

Verwijderd houden van open vuur/warmte. Bij ontoereikende ventilatie: open vuur en vonken vermijden. Bij ontoereikende ventilatie: vonkvrije, explosie veilige apparatuur/verlichting gebruiken. Bij ontoereikende ventilatie: maatregelen treffen tegen elektrostatische opladingen. Gas/damp zwaarder dan lucht bij 20°C. Normale hygiëne. Verpakking goed gesloten houden. Verontreinigde kleding onmiddellijk uittrekken. Afval niet in de gootsteen lozen.

7.2. Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten

7.2.1 Voorwaarden voor veilige opslag:

Opslagtemperatuur: < 30 °C. Op een koele plaats bewaren. Beschermen tegen directe zonnestrallen. Op een donkere plaats bewaren. Ventilatie langs de vloer. Brandveilig lokaal. Achter slot bewaren. Automatische blusinstallatie voorzien. Kan bewaard worden onder inert gas. In orde met de wettelijke normen.

7.2.2 Product verwijderd houden van:

Warmtebronnen, ontstekingsbronnen, oxidatiemiddelen, (sterke) zuren, (sterke) basen, halogenen, alcoholen, aminen.

7.2.3 Geschikt verpakkingsmateriaal:

Roestvrij staal, monelstaal, koolstofstaal.

7.2.4 Niet geschikt verpakkingsmateriaal:

Kunststof, aluminium, koper.

7.3. Specifiek eindgebruik

Indien van toepassing en beschikbaar worden de blootstellingsscenario's in de bijlage opgenomen. Zie de aanwijzingen van de fabrikant.

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RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

8.1. Controleparameters

8.1.1 Beroepsmatige blootstelling

a) Grenswaarden voor beroepsmatige blootstelling

Indien grenswaarden van toepassing en beschikbaar zijn, worden deze hieronder weergegeven.

EU

Butanon	Tijdsgewogen gemiddelde 8u (Indicatieve grenswaarde voor beroepsmatige blootstelling)	200 ppm
	Tijdsgewogen gemiddelde 8u (Indicatieve grenswaarde voor beroepsmatige blootstelling)	600 mg/m ³
	Kortetijdschaar (Indicatieve grenswaarde voor beroepsmatige blootstelling)	300 ppm
	Kortetijdschaar (Indicatieve grenswaarde voor beroepsmatige blootstelling)	900 mg/m ³

België

2-Butanon	Tijdsgewogen gemiddelde 8u	200 ppm
	Tijdsgewogen gemiddelde 8u	600 mg/m ³
	Kortetijdschaar	300 ppm
	Kortetijdschaar	900 mg/m ³

Nederland

2-Butanon	Tijdsgewogen gemiddelde 8u (Wettelijk)	197 ppm
	Tijdsgewogen gemiddelde 8u (Wettelijk)	590 mg/m ³
	Kortetijdschaar (Wettelijk)	300 ppm
	Kortetijdschaar (Wettelijk)	900 mg/m ³

Frankrijk

Méthyléthylcétone	Tijdsgewogen gemiddelde 8u (VRC: Valeur réglementaire contraignante)	200 ppm
	Tijdsgewogen gemiddelde 8u (VRC: Valeur réglementaire contraignante)	600 mg/m ³
	Kortetijdschaar (VRC: Valeur réglementaire contraignante)	300 ppm
	Kortetijdschaar (VRC: Valeur réglementaire contraignante)	900 mg/m ³

Duitsland

Butanon	Tijdsgewogen gemiddelde 8u (TRGS 900)	200 ppm
	Tijdsgewogen gemiddelde 8u (TRGS 900)	600 mg/m ³

UK

Butan-2-one (methyl ethyl ketone)	Tijdsgewogen gemiddelde 8u (Workplace exposure limit (EH40/2005))	200 ppm
	Tijdsgewogen gemiddelde 8u (Workplace exposure limit (EH40/2005))	600 mg/m ³
	Kortetijdschaar (Workplace exposure limit (EH40/2005))	300 ppm
	Kortetijdschaar (Workplace exposure limit (EH40/2005))	899 mg/m ³

USA (TLV-ACGIH)

Methyl ethyl ketone (MEK)	Tijdsgewogen gemiddelde 8u (TLV - Adopted Value)	200 ppm
	Kortetijdschaar (TLV - Adopted Value)	300 ppm

b) Nationale biologische grenswaarden

Indien grenswaarden van toepassing en beschikbaar zijn, worden deze hieronder weergegeven.

Duitsland

Butanon (2-Butanon; Ethylmethylketon) (Butanon (2-Butanon))	Urine: expositionsende, bzw. schichtende	2 mg/l	05/2015 DFG
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UK

Butan-2-one (butan-2-one)	Urine: post shift	70 µmol/L	
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USA (BEI-ACGIH)

Methyl ethyl ketone (MEK)	urine: end of shift	2 mg/L	
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8.1.2 Meetnormen

Productnaam	Test	Nummer
2-Butanone (MEK) (Methyl ethyl ketone)	NIOSH	2500
2-Butanone (Methyl ethyl ketone)	OSHA	84
2-Butanone (organic and inorganic gases by Extractive FTIR)	NIOSH	3800
2-Butanone (Volatile Organic compounds)	NIOSH	2549
2-Butanone	OSHA	1004

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2-Butanone	OSHA	13
ACETONE and METHYL ETHYL KETONE in urine	NIOSH	8319
MEK	NIOSH	8002
Methyl Ethyl Ketone (ketones I)	NIOSH	2555
Methyl Ethyl Ketone	OSHA	16

8.1.3 Bij het beoogde gebruik toepasselijke grenswaarden

Indien grenswaarden van toepassing en beschikbaar zijn, worden deze hieronder weergegeven.

8.1.4 DNEL/PNEC-waarden

DNEL/DMEL - Arbeiders

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Drempelwaarde (DNEL/DMEL)	Type	Waarde	Opmerking
DNEL	Systemische effecten op lange termijn dermaal	1161 mg/kg bw/dag	
	Systemische effecten op lange termijn inademing	600 mg/m ³	

DNEL/DMEL - Grote publiek

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Drempelwaarde (DNEL/DMEL)	Type	Waarde	Opmerking
DNEL	Systemische effecten op lange termijn dermaal	412 mg/kg bw/dag	
	Systemische effecten op lange termijn inademing	106 mg/m ³	
	Systemische effecten op lange termijn oraal	31 mg/kg bw/dag	

PNEC

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Compartimenten	Waarde	Opmerking
Zoet water	55.8 mg/l	
Zoet water sediment	284.7 mg/kg	
Aqua (intermitterende lozingen)	55.8 mg/l	
Zeewater sediment	284.7 mg/kg	
Zeewater	55.8 mg/l	
STP	709 mg/l	
Bodem	22.5 mg/kg	

8.1.5 Control banding

Indien van toepassing en beschikbaar, wordt dit hieronder weergegeven.

8.2. Maatregelen ter beheersing van blootstelling

De informatie in deze rubriek is een algemene beschrijving. Indien van toepassing en beschikbaar worden de blootstellingsscenario's in de bijlage opgenomen. U dient steeds de relevante blootstellingsscenario's te gebruiken die overeenkomen met uw geïdentificeerd gebruik.

8.2.1 Passende technische maatregelen

Verwijderd houden van open vuur/warmte. Bij ontoereikende ventilatie: open vuur en vonken vermijden. Bij ontoereikende ventilatie: vonkvrije, explosieveilige apparatuur/verlichting gebruiken. Bij ontoereikende ventilatie: maatregelen treffen tegen elektrostatische opladingen. Voor gebruik aanwezigheid peroxiden controleren/vernietigen. Regelmatig concentratie in de lucht meten. Werken onder plaatselijke afzuiging/ventilatie.

8.2.2 Individuele beschermingsmaatregelen, zoals persoonlijke beschermingsmiddelen

Normale hygiëne. Verpakking goed gesloten houden. Niet eten, drinken of roken tijdens het werk.

a) Bescherming van de ademhalingswegen:

Gasmasker met filtertype A bij conc. in de lucht > blootstellingsgrenswaarde.

b) Bescherming van de handen:

Handschoenen.

Materiaalkeuze	Doorbraaktijd	Dikte
butylrubber	> 60 minuten	>=0.5 mm

- materiaalkeuze (goede bescherming)

Butylrubber.

- materiaalkeuze (slechte bescherming)

Natuurrubber, neopreen, nitrilrubber, polyethyleen, viton, PVC.

c) Bescherming van de ogen:

Nauwaansluitende bril.

d) Bescherming van de huid:

Beschermkleding. Hoofd-/halsbescherming.

8.2.3 Beheersing van milieublootstelling:

Zie rubrieken 6.2, 6.3 en 13

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RUBRIEK 9: Fysische en chemische eigenschappen

9.1. Informatie over fysische en chemische basiseigenschappen

Verschijningsvorm	Vloeistof
Geur	Kenmerkende geur
Reukgrens	2 - 85 ppm 6 - 251 mg/m ³
Kleur	Kleurloos
Deeltjesgrootte	Niet van toepassing (vaste stof)
Explosiegrenzen	1.8 - 11.5 vol % 50 - 350 g/m ³
Ontvlambaarheid	Licht ontvlambaar
Log Kow	0.3 ; Experimentele waarde ; OESO 117 ; 40 °C
Dynamische viscositeit	0.0004 Pa.s ; 15 °C
Kinematische viscositeit	0.51 mm ² /s ; 20 °C
Smeltpunt	-86 °C
Kookpunt	80 °C
Vlampunt	-6 °C
Verdampingssnelheid	2.7 ; Ether 6 ; Butylacetaat
Relatieve dampdichtheid	2.4
Dampdruk	105 hPa ; 20 °C 370 hPa ; 50 °C
Oplosbaarheid	Water ; 28 g/100 ml ; 20 °C Ethanol ; volledig Aceton ; volledig Ether ; volledig
Relatieve dichtheid	0.80 - 0.81 ; 20 °C
Ontbindingstemperatuur	Geen gegevens beschikbaar
Zelfontbrandingstemperatuur	404 °C - 515 °C
Ontploffingseigenschappen	Geen chemische groep geassocieerd met ontplofbare eigenschappen
Oxiderende eigenschappen	Geen chemische groep geassocieerd met oxiderende eigenschappen
pH	Geen gegevens beschikbaar

9.2. Overige informatie

Minimale ontstekingsenergie	0.5 mJ
Soortelijke geleiding	1E7 pS/m ; 25 °C
Kritische temperatuur	263 °C
Kritische druk	41550 hPa
Oppervlaktetenspanning	0.024 N/m ; 20 °C
Relatieve dichtheid verzadigd damp/luchtmengsel	1.2
Verzadigingsconcentratie	311 g/m ³
Absolute dichtheid	804 kg/m ³ - 807 kg/m ³ ; 20 °C

RUBRIEK 10: Stabiliteit en reactiviteit

10.1. Reactiviteit

Kan ontsteken door vonken. Verspreiden van gas/damp langs de grond: ontstekingskans.

10.2. Chemische stabiliteit

Stabiel onder normale omstandigheden.

10.3. Mogelijke gevaarlijke reacties

Reageert heftig met (sterke) oxidantia: (verhoogde) kans op brand/explosie. Reageert heftig tot explosief met vele verbindingen o.a.: met (sommige) halogeenverbindingen, alcoholen en met (sommige) zuren/basen. Bij langdurige opslag: peroxidevorming met verhoogde kans op brand/explosie.

10.4. Te vermijden omstandigheden

Verwijderd houden van open vuur/warmte. Bij ontoereikende ventilatie: open vuur en vonken vermijden. Bij ontoereikende ventilatie: vonkvrije, explosieveilige apparatuur/verlichting gebruiken. Bij ontoereikende ventilatie: maatregelen treffen tegen elektrostatische opladingen.

10.5. Chemisch op elkaar inwerkende materialen

Oxidatiemiddelen, (sterke) zuren, (sterke) basen, halogenen, alcoholen, aminen.

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10.6. Gevaarlijke ontledingsproducten

Bij verbranding: vorming van CO en CO₂.

RUBRIEK 11: Toxicologische informatie

11.1. Informatie over toxicologische effecten

11.1.1 Testresultaten

Acute toxiciteit

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Blootstellingswijze	Parameter	Methode	Waarde	Blootstellingsduur	Soort	Waardebepaling	Opmerking
Oraal	LD50	Equivalent aan OESO 423	2054 mg/kg		Rat (mannelijk)	Read-across	
Oraal	LD50	Equivalent aan OESO 423	2328 mg/kg		Rat (vrouwelijk)	Read-across	
Dermaal	LD50	Equivalent aan OESO 402	> 10 ml/kg bw		Konijn (mannelijk)	Experimentele waarde	
Inhalatie	LC50		34 mg/l	4 u	Rat	Literatuurstudie	
Inhalatie	LC50		11300 ppm	4 u	Rat	Literatuurstudie	

Conclusie

Niet ingedeeld als acuut toxisch

Corrosie/irritatie

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Blootstellingswijze	Resultaat	Methode	Blootstellingsduur	Tijdstip	Soort	Waardebepaling	Opmerking
Oog	Irriterend	Equivalent aan OESO 405			Konijn	Experimentele waarde	Eenmalige blootstelling
Huid	Niet irriterend	OESO 404	4 u		Konijn	Read-across	

Conclusie

Veroorzaakt ernstige oogirritatie.

Irriterend voor de ogen

Niet ingedeeld als irriterend voor de huid

Sensibilisatie van de luchtwegen/huid

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Blootstellingswijze	Resultaat	Methode	Blootstellingsduur	Tijdstip van waarneming	Soort	Waardebepaling	Opmerking
Huid	Niet sensibiliserend	Equivalent aan OESO 413			Cavia (vrouwelijk)	Experimentele waarde	

Conclusie

Niet ingedeeld als sensibiliserend voor de huid

Specifieke doelorganen toxiciteit

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Blootstellingswijze	Parameter	Methode	Waarde	Orgaan	Effect	Blootstellingsduur	Soort	Waardebepaling
Inhalatie (damp)	NOAEC	Equivalent aan OESO 413	5041 ppm	Algemeen	Geen effect	18 weken (6u/dag, 5 dagen/week)	Rat (mannelijk / vrouwelijk)	Experimentele waarde
Inhalatie (damp)				Centraal zenuwstelsel	Slaperigheid, duizeligheid			Literatuurstudie

Conclusie

Kan slaperigheid of duizeligheid veroorzaken.

Lage subchronische toxiciteit bij inademing

Mutageniteit in geslachtscellen (in vitro)

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Resultaat	Methode	Testsubstraat	Effect	Waardebepaling
Negatief	Equivalent aan OESO 473	Rat levercellen	Geen effect	Experimentele waarde
Negatief	Equivalent aan OESO 476	Muis (lymfoom L5178Y cellen)	Geen effect	Experimentele waarde
Negatief	Equivalent aan OESO 471	Bacterium (<i>S.typhimurium</i>)	Geen effect	Experimentele waarde

Mutageniteit in geslachtscellen (in vivo)

Reden van herziening: 2; 3; 5; 16

Publicatiedatum: 2002-11-06

Datum van herziening: 2017-05-15

Herzieningsnummer: 0701

Productnummer: 38712

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Resultaat	Methode	Blootstellingsduur	Testsubstraat	Orgaan	Waardebepaling
Negatief	Equivalent aan OESO 474		Muis (mannelijk / vrouwelijk)		Experimentele waarde

Conclusie

Niet ingedeeld voor mutageniteit of genotoxiciteit

Kankerverwekkendheid

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Geen (test)data beschikbaar

Conclusie

Niet ingedeeld als kankerverwekkend

Giftigheid voor de voortplanting

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	Parameter	Methode	Waarde	Blootstellingsduur	Soort	Effect	Orgaan	Waardebepaling
Ontwikkelingstoxiciteit	NOAEC	Equivalent aan OESO 414	1002 ppm	18 dagen (7u/dag)	Rat	Geen effect	Algemeen	Experimentele waarde
	LOAEC	Equivalent aan OESO 414	3000 ppm	18 dagen (7u/dag)	Rat	Gewichtsvermindering	Algemeen	Experimentele waarde
	LOAEC	Equivalent aan OESO 414	3000 ppm	18 dagen (7u/dag)	Rat		Skelet	Experimentele waarde

Conclusie

Niet ingedeeld voor reprotoxiciteit of ontwikkelingstoxiciteit

Toxiciteit andere effecten

MEGACLEAN

Parameter	Methode	Waarde	Orgaan	Effect	Blootstellingsduur	Soort	Waardebepaling
			Huid	Droge of gebarsten huid			Literatuurstudie

Conclusie

Herhaalde blootstelling kan een droge of een gebarsten huid veroorzaken.

Chronische effecten van kortstondige en langdurige blootstelling

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NA LANGDURIGE/HERHAALDE BLOOTSTELLING/CONTACT: Droge huid. Jeuk. Huiduitslag/ontsteking.

RUBRIEK 12: Ecologische informatie

12.1. Toxiciteit

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	Parameter	Methode	Waarde	Tijdsduur	Soort	Testplan	Zoet/zout water	Waardebepaling
Acute toxiciteit vissen	LC50	OESO 203	2990 mg/l	96 u	Pimephales promelas	Statisch systeem	Zoet water	Experimentele waarde; Dodelijk
Acute toxiciteit schaaldieren	EC50	OESO 202	308 mg/l	48 u	Daphnia magna	Statisch systeem	Zoet water	Experimentele waarde; Beweging
Toxiciteit algen en andere waterplanten	EC50	OESO 201	1972 mg/l	72 u	Pseudokirchneriella subcapitata	Statisch systeem	Zoet water	Experimentele waarde; Groeisnelheid
Toxiciteit aquatische micro-organismen	ECO	DIN 38412-8	1150 mg/l	16 u	Pseudomonas putida	Statisch systeem	Zoet water	Experimentele waarde

Conclusie

Weinig schadelijk voor planten

Niet ingedeeld als milieugevaarlijk volgens de criteria van Verordening (EG) nr. 1272/2008

12.2. Persistentie en afbreekbaarheid

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Biodegradatie water

Methode	Waarde	Duur	Waardebepaling
OESO 301D: Gesloten-flesproef	98 %	28 dag(en)	Experimentele waarde

Reden van herziening: 2; 3; 5; 16

Publicatiedatum: 2002-11-06

Datum van herziening: 2017-05-15

Herzieningsnummer: 0701

Productnummer: 38712

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Conclusie

Gemakkelijk biologisch afbreekbaar in water

12.3. Bioaccumulatie

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Log Kow

Methode	Opmerking	Waarde	Temperatuur	Waardebepaling
OESO 117		0,3	40 °C	Experimentele waarde

Conclusie

Weinig vermogen tot bioaccumulatie (Log Kow < 4)

12.4. Mobiliteit in de bodem

Geen (test)data beschikbaar over mobiliteit van de stof

12.5. Resultaten van PBT- en zPzB-beoordeling

Stof voldoet niet aan de PBT-criteria, noch aan de zPzB-criteria volgens bijlage XIII van Verordening (EG) nr. 1907/2006 en is bijgevolg noch PBT noch zPzB.

12.6. Andere schadelijke effecten

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Ozonafbrekend vermogen (ODP)

Niet ingedeeld als gevaarlijk voor de ozonlaag (Verordening (EG) nr. 1005/2009)

Grondwater

Grondwaterverontreinigend

RUBRIEK 13: Instructies voor verwijdering

De informatie in deze rubriek is een algemene beschrijving. Indien van toepassing en beschikbaar worden de blootstellingsscenario's in de bijlage opgenomen. U dient steeds de relevante blootstellingsscenario's te gebruiken die overeenkomen met uw geïdentificeerd gebruik.

13.1. Afvalverwerkingsmethoden

13.1.1 Afvalvoorschriften

Europese Unie

Gevaarlijk afval volgens Richtlijn 2008/98/EG, zoals aangepast door Verordening (EU) nr. 1357/2014.

Afvalstofcode (Richtlijn 2008/98/EG, Beschikking 2000/0532/EG).

07 01 04* (afval van bereiding, formulering, levering en gebruik (BFLG) van organische basischemicaliën: overige organische oplosmiddelen, wasvloeistoffen en moederlogen). Afhankelijk van de industrietak en het productieproces kunnen ook andere afvalcodes van toepassing zijn.

13.1.2 Verwijderingsmethoden

Herwinnen door destillatie. Afvoeren naar vergunde verbrandingsoven voor oplosmiddelen met terugwinning van energie. Niet verwijderen als huisvuil. Gevaarlijk afval mag niet gemengd worden met ander afval. Verschillende types van gevaarlijk afval mogen niet gemengd worden indien dit een risico inhoudt aangaande vervuiling of indien dit problemen kan doen ontstaan voor de verdere behandeling van het afval. Gevaarlijk afval moet op een verantwoordelijke manier beheerd worden. Alle entiteiten die gevaarlijk afval opslaan, transporteren of hanteren nemen de nodige maatregelen om risico op vervuiling of schade aan mensen of dieren te voorkomen. Afval verwijderen volgens lokale en/of nationale voorschriften. Mag naar waterzuiveringsinstallatie afgevoerd worden. Niet in het riool of het milieu lozen.

13.1.3 Verpakking

Europese Unie

Afvalstofcode verpakking (Richtlijn 2008/98/EG).

15 01 10* (verpakking die resten van gevaarlijke stoffen bevat of daarmee is verontreinigd).

RUBRIEK 14: Informatie met betrekking tot het vervoer

Weg (ADR)

14.1. VN-nummer

UN-nummer	1193
-----------	------

14.2. Juiste ladingnaam overeenkomstig de modelreglementen van de VN

Ladingnaam	ethylmethylketon (methylethylketon)
------------	-------------------------------------

14.3. Transportgevarenklasse(n)

Identificatienummer van het gevaar	33
Klasse	3
Classificatiecode	F1

14.4. Verpakkingsgroep

Verpakkingsgroep	II
Etiketten	3

14.5. Milieugevaren

Merkteken milieugevaarlijke stof	nee
----------------------------------	-----

Reden van herziening: 2; 3; 5; 16

Publicatiedatum: 2002-11-06

Datum van herziening: 2017-05-15

Herzieningsnummer: 0701

Productnummer: 38712

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14.6. Bijzondere voorzorgen voor de gebruiker

Bijzondere bepalingen	
Beperkte hoeveelheden	Samengestelde verpakkingen: tot 1 liter per binnenvpakking voor vloeistoffen. Een collo mag niet meer wegen dan 30 kg. (totale brutomassa)

Spoorweg (RID)

14.1. VN-nummer

UN-nummer	1193
-----------	------

14.2. Juiste ladingnaam overeenkomstig de modelreglementen van de VN

Ladingnaam	ethylmethylketon (methylethylketon)
------------	-------------------------------------

14.3. Transportgevarenklasse(n)

Identificatienummer van het gevaar	33
Klasse	3
Classificatiecode	F1

14.4. Verpakkingsgroep

Verpakkingsgroep	II
Etiketten	3

14.5. Milieugevaren

Merkteken milieugevaarlijke stof	nee
----------------------------------	-----

14.6. Bijzondere voorzorgen voor de gebruiker

Bijzondere bepalingen	
Beperkte hoeveelheden	Samengestelde verpakkingen: tot 1 liter per binnenvpakking voor vloeistoffen. Een collo mag niet meer wegen dan 30 kg. (totale brutomassa)

Binnenwateren (ADN)

14.1. VN-nummer

UN-nummer	1193
-----------	------

14.2. Juiste ladingnaam overeenkomstig de modelreglementen van de VN

Ladingnaam	methylethylketon (ethylmethylketon)
------------	-------------------------------------

14.3. Transportgevarenklasse(n)

Klasse	3
Classificatiecode	F1

14.4. Verpakkingsgroep

Verpakkingsgroep	II
Etiketten	3

14.5. Milieugevaren

Merkteken milieugevaarlijke stof	nee
----------------------------------	-----

14.6. Bijzondere voorzorgen voor de gebruiker

Bijzondere bepalingen	
Beperkte hoeveelheden	Samengestelde verpakkingen: tot 1 liter per binnenvpakking voor vloeistoffen. Een collo mag niet meer wegen dan 30 kg. (totale brutomassa)

Zee (IMDG/IMSBC)

14.1. VN-nummer

UN-nummer	1193
-----------	------

14.2. Juiste ladingnaam overeenkomstig de modelreglementen van de VN

Ladingnaam	Ethyl methyl ketone (methyl ethyl ketone)
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14.3. Transportgevarenklasse(n)

Klasse	3
--------	---

14.4. Verpakkingsgroep

Verpakkingsgroep	II
Etiketten	3

14.5. Milieugevaren

Marine pollutant	-
Merkteken milieugevaarlijke stof	nee

14.6. Bijzondere voorzorgen voor de gebruiker

Bijzondere bepalingen	
Beperkte hoeveelheden	Samengestelde verpakkingen: tot 1 liter per binnenvpakking voor vloeistoffen. Een collo mag niet meer wegen dan 30 kg. (totale brutomassa)

14.7. Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code

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Bijlage II bij MARPOL 73/78

Niet van toepassing, gebaseerd op beschikbare informatie

Lucht (ICAO-TI/IATA-DGR)

14.1. VN-nummer

UN-nummer	1193
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14.2. Juiste ladingnaam overeenkomstig de modelreglementen van de VN

Ladingnaam	Ethyl methyl ketone
------------	---------------------

14.3. Transportgevaarenklasse(n)

Klasse	3
--------	---

14.4. Verpakkingsgroep

Verpakkingsgroep	II
Etiketten	3

14.5. Milieugevaren

Merkteken milieugevaarlijke stof	nee
----------------------------------	-----

14.6. Bijzondere voorzorgen voor de gebruiker

Bijzondere bepalingen	
beperkte hoeveelheden: max. netto hoeveelheid per verpakking	1 L

RUBRIEK 15: Regelgeving

15.1. Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel

Europese wetgeving:

VOS-gehalte Richtlijn 2010/75/EU

VOS-gehalte	Opmerking
100 %	

Ingrediënten conform Verordening (EG) nr. 648/2004 en wijzigingen
 ≥30% alifatische koolwaterstoffen

REACH Bijlage XVII - Beperking

Onderworpen aan beperkingen van Bijlage XVII van Verordening (EG) nr. 1907/2006. Betreft beperkingen op de vervaardiging, het in de handel brengen en het gebruik van bepaalde gevaarlijke stoffen, mengsels en voorwerpen.

	Benaming van de stof of groep van stoffen of van het mengsel	Beperkingsvoorwaarden
MEGACLEAN	Vloeibare stoffen of mengsels die overeenkomstig Richtlijn 1999/45/EG als gevaarlijk worden beschouwd of waarvoor de criteria van een of meer van de volgende gevarenklassen of categorieën van bijlage I bij Verordening (EG) nr. 1272/2008 vervuld zijn: a) de gevarenklassen 2.1 tot en met 2.4, 2.6 en 2.7, 2.8 typen A en B, 2.9, 2.10, 2.12, 2.13 categorieën 1 en 2, 2.14 categorieën 1 en 2, en 2.15 typen A tot en met F; b) de gevarenklassen 3.1 tot en met 3.6, 3.7 schadelijke effecten op de seksuele functie en de vruchtbaarheid of de ontwikkeling, 3.8 andere effecten dan een narcotische werking, 3.9 en 3.10; c) gevarenklasse 4.1; d) gevarenklasse 5.1.	1. Mogen niet worden gebruikt: — in siervoorwerpen bestemd om licht- of kleureffecten te verkrijgen door verschillende fasen, bijvoorbeeld in sfeerlampen en asbakken, — in scherts- en fopartikelen, — in spelen voor een of meer personen of in alle voorwerpen die bestemd zijn om als zodanig te worden gebruikt, zelfs als deze fungeren als siervoorwerp. 2. Voorwerpen die niet met punt 1 in overeenstemming zijn, mogen niet in de handel worden gebracht. 3. Mogen niet in de handel worden gebracht als zij een kleurstof bevatten, tenzij dat om fiscale redenen vereist is, of een geurstof of beide, en als zij: — als brandstof kunnen worden gebruikt in decoratieve olielampen die bestemd zijn voor het grote publiek, en — gevaarlijk zijn bij inademing en met R65 of H304 worden gekenmerkt. 4. Decoratieve olielampen die voor het grote publiek bestemd zijn mogen slechts in de handel worden gebracht indien zij voldoen aan de door het Europees Comité voor Normalisatie (CEN) vastgestelde Europese norm inzake decoratieve olielampen (EN 14059). 5. Onverminderd de toepassing van andere communautaire bepalingen inzake de indeling, verpakking en etikettering van gevaarlijke stoffen en mengsels moeten de leveranciers ervoor zorgen dat de producten, voordat zij in de handel worden gebracht, aan de volgende voorschriften voldoen: a) lampoliën die met R65 of H304 worden gekenmerkt en voor het grote publiek bestemd zijn, moeten zichtbaar, leesbaar en onuitwisbaar de volgende vermeldingen dragen: „Lampen die met deze vloeistof gevuld zijn buiten het bereik van kinderen houden”; en, uiterlijk op 1 december 2010, „Een klein slokje lampolie — of nog maar zuigen aan de pit van lampen — kan levensbedreigende longschade tot gevolg hebben”; b) aanmaakvloeistoffen voor barbecues die met R65 of H304 worden gekenmerkt en voor het grote publiek bestemd zijn, moeten uiterlijk op 1 december 2010 leesbaar en onuitwisbaar de volgende vermelding dragen: „Een klein slokje aanmaakvloeistof kan levensbedreigende longschade tot gevolg hebben”; c) lampoliën en aanmaakvloeistoffen voor barbecues die met R65 of H304 worden gekenmerkt en voor het grote publiek bestemd zijn, worden uiterlijk op 1 december 2010 verpakt in zwarte ondoorzichtige recipiënten van maximaal 1 l. Uiterlijk op 1 juni 2014 verzoekt de Commissie het Europees Agentschap voor chemische stoffen overeenkomstig artikel 69 van deze verordening een dossier samen te stellen met het doel aanmaakvloeistoffen voor barbecues en brandstof voor sierlampen die met R65 of H304 worden gekenmerkt en voor het grote publiek bestemd zijn, indien nodig te verbieden. 7. Natuurlijke personen of rechtspersonen die lampoliën en aanmaakvloeistoffen voor barbecues die met R65 of H304 worden gekenmerkt, voor het eerst in de handel brengen, verstrekken de bevoegde autoriteit in de betrokken lidstaat uiterlijk op 1 december 2011 en daarna elk jaar gegevens over alternatieven voor lampoliën en aanmaakvloeistoffen voor barbecues die met R65 of H304 worden gekenmerkt. De lidstaten stellen die gegevens ter

Reden van herziening: 2; 3; 5; 16

Publicatiedatum: 2002-11-06

Datum van herziening: 2017-05-15

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MEGACLEAN	Stoffen die zijn ingedeeld als ontvlambare gassen van categorie 1 of 2, ontvlambare vloeistoffen van categorie 1, 2 of 3, ontvlambare vaste stoffen van categorie 1 of 2, stoffen en mengsels die in contact met water ontvlambare gassen ontwikkelen van categorie 1, 2 of 3, pyrofore vloeistoffen van categorie 1 of pyrofore vaste stoffen van categorie 1, ongeacht of zij in deel 3 van bijlage VI bij Verordening (EG) nr. 1272/2008 zijn opgenomen.	beschikking van de Commissie. 1. Mogen niet als stof of in mengsels worden gebruikt in aerosolen die in de handel worden gebracht voor levering aan het grote publiek voor amusements- of decoratiedoeleinden, zoals: — metaalglitter (hoofdzakelijk bedoeld als decoratieartikel); — kunstsnieuw en -rijp (decoratieartikel); — „scheetskussens” (fopartikel); — „silly string” (schertsartikel); — nepdrollen (fopartikel); — feesttoeters (amusementsartikel); — vlokken en schuim (decoratieartikel); — imitatiespinnenwebben (fopartikel); — stinkbommen (schertsartikel). 2. Onverminderd de toepassing van andere communautaire bepalingen inzake de indeling, verpakking en etikettering van stoffen zorgen de leveranciers er vóór het in de handel brengen voor dat op de verpakking van de bovenbedoelde aerosolen zichtbaar, leesbaar en onuitwisbaar het volgende wordt vermeld: „Uitsluitend bestemd voor professionele gebruikers”. 3. De punten 1 en 2 gelden echter niet voor aerosolen als bedoeld in artikel 8, lid 1 bis, van Richtlijn 75/324/EEG van de Raad. 4. De in de punten 1 en 2 bedoelde aerosolen mogen niet in de handel worden gebracht, tenzij zij voldoen aan de in die punten genoemde voorschriften.
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Nationale wetgeving België

Geen gegevens beschikbaar

Nationale wetgeving Nederland

Afvalidentificatie (Nederland)	LWCA (Nederland): KGA categorie 03
Waterbezwaarlijkheid	B (5)
Huidopname (wettelijk)	2-Butanon; H

Nationale wetgeving Frankrijk

VME - Risque de pénétration percutanée	Méthyléthylcétone; PP
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Nationale wetgeving Duitsland

WGK	1; Classificatie waterverontreinigend volgens Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) van 27 juli 2005 (Anhang 2)
TA-Luft	5.2.5
TRGS900 - Risiko der Fruchtschädigung	Butanon; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
Hautresorptive Stoffe	Butanon; H; Hautresorptiv

Nationale wetgeving Verenigd Koninkrijk

Skin absorption	Butan-2-one (methyl ethyl ketone); Sk
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Andere relevante gegevens

Geen gegevens beschikbaar

15.2. Chemischeveiligheidsbeoordeling

RUBRIEK 16: Overige informatie

Volledige tekst van alle H-zinnen vermeld onder rubrieken 2 en 3:

- H225 Licht ontvlambare vloeistof en damp.
H319 Veroorzaakt ernstige oogirritatie.
H336 Kan slaperigheid of duizeligheid veroorzaken.

(*)	INTERNE CLASSIFICATIE DOOR BIG
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europa)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effectieve Concentratie 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Letale Concentratie 50 %
LD50	Letale Dosis 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OESO	Organisatie voor Economische Samenwerking en Ontwikkeling
PBT	Persistent, Bioaccumulatief & Toxisch
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
zPzB	zeer Persistent & zeer Bioaccumulatief

Reden van herziening: 2; 3; 5; 16

Publicatiedatum: 2002-11-06

Datum van herziening: 2017-05-15

Herzieningsnummer: 0701

Productnummer: 38712

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Exposure scenario – worker

SECTION 1	TITLE EXPOSURE SCENARIO
Title	ES01: Manufacture of substance - Industrial
Use descriptor	Sector of use: SU 3, SU8, SU9 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 Environmental release categories: ERC 1, ERC 4
Scope of the process	Manufacture of the substance or use as a process chemical or extraction agent within closed or contained systems. Includes incidental exposures during recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional information	No exposure assessment presented for the environment.

Section 2.1	Control of worker exposure
Product characteristic	
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).
Frequency and duration of use/exposure	
Covers daily exposures up to 8 hours (unless stated differently).	
Other given operational conditions affecting workers exposure.	
Assumes a good basic standard of occupational hygiene is implemented.	

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (open systems)	No other specific measures identified.
Process sampling	No other specific measures identified.
Laboratory activities	No other specific measures identified.

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Bulk transfers (open systems)	No other specific measures identified.
Bulk transfers (closed systems)	No other specific measures identified.
Equipment cleaning and maintenance	Drain down system prior to equipment break-in or maintenance.
Storage	Store the substance in a closed system.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
<p>Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.</p> <p>Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.</p>	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES02: Use as an intermediate - Industrial		
Use descriptor	Sector of use: SU 3, SU8, SU9 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 Environmental release categories: ERC 6A		
Scope of the process	Use of substance as an intermediate (not related to strictly controlled conditions). Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).		

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional information	No exposure assessment presented for the environment.		

Section 2.1		Control of worker exposure	
Product characteristic			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).		
Frequency and duration of use/exposure			
Covers daily exposures up to 8 hours (unless stated differently).			
Other given operational conditions affecting workers exposure.			
Assumes a good basic standard of occupational hygiene is implemented.			

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (open systems)	No other specific measures identified.
Process sampling	No other specific measures identified.
Laboratory activities	No other specific measures identified.

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Bulk transfers (open systems)	No other specific measures identified.
Bulk transfers (closed systems)	No other specific measures identified.
Equipment cleaning and maintenance	Drain down system prior to equipment break-in or maintenance.
Storage	Store the substance in a closed system.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
<p>Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.</p> <p>Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.</p>	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES03: Distribution of substance - Industrial		
Use descriptor	Sector of use: SU 3, SU8, SU9 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 15 Environmental release categories: ERC 1, ERC 2, ERC 3, ERC 4, ERC 5, ERC 6A, ERC 7		
Scope of the process	Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.		

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional information	No exposure assessment presented for the environment.		

Section 2.1		Control of worker exposure	
Product characteristic			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).		
Frequency and duration of use/exposure			
Covers daily exposures up to 8 hours (unless stated differently).			
Other given operational conditions affecting workers exposure.			
Assumes a good basic standard of occupational hygiene is implemented.			

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (open systems)	Clear transfer lines prior to de-coupling. No other specific measures identified.
Process sampling	No other specific measures identified.
Laboratory activities	No other specific measures identified.

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Bulk transfers (open systems)	No other specific measures identified.
Bulk transfers (closed systems)	No other specific measures identified.
Drum and small package filling	Fill containers/cans at dedicated fill points supplied with local extract ventilation.
Equipment cleaning and maintenance	Drain down and flush system prior to equipment break-in or maintenance.
Storage	No other specific measures identified.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
<p>Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.</p> <p>Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.</p>	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO
Title	ES04: Formulation & (re)packaging of substances and mixtures - Industrial	
Use descriptor	Sector of use: SU 3, SU 10 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 14, PROC 15 Environmental release categories: ERC 2	
Scope of the process	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.	

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional information	No exposure assessment presented for the environment.	

Section 2.1		Control of worker exposure
Product characteristic		
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.	
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).	
Frequency and duration of use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other given operational conditions affecting workers exposure.		
Assumes a good basic standard of occupational hygiene is implemented.		

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (open systems)	No other specific measures identified.
Batch processes at elevated temperatures (closed systems)	No other specific measures identified.

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Process sampling	No other specific measures identified.
Laboratory activities	No other specific measures identified.
Bulk transfers	No other specific measures identified.
Mixing operations (open systems)	Provide extract ventilation to points where emissions occur. or Wear a respirator conforming to EN140 with Type A filter or better.
Manual Transfer from/pouring from containers	Use drum pumps or carefully pour from container.
Drum/batch transfers	Use drum pumps or carefully pour from container.
Production or preparation of articles by tableting, compression, extrusion or pelletisation.	Provide extract ventilation to points where emissions occur. or Wear a respirator conforming to EN140 with Type A filter or better.
Drum and small package filling	Fill containers/cans at dedicated fill points supplied with local extract ventilation.
Equipment cleaning and maintenance	Drain down and flush system prior to equipment break-in or maintenance.
Storage	Store the substance in a closed system. Transfer via enclosed lines. Locate bulk storage outdoors.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.	

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Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.

Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES05: Uses in coatings - Industrial		
Use descriptor	Sector of use: SU 3 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13, PROC 15 Environmental release categories: ERC 4		
Scope of the process	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.		

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional information	No exposure assessment presented for the environment.		

Section 2.1		Control of worker exposure	
Product characteristic			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).		
Frequency and duration of use/exposure			
Covers daily exposures up to 8 hours (unless stated differently).			
Other given operational conditions affecting workers exposure.			
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.			

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (closed systems) with sample collection	Ensure material transfers are under containment or extract ventilation.

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Film formation - air drying (closed systems)	Ensure material transfers are under containment or extract ventilation.
Mixing operations (closed systems)	Ensure material transfers are under containment or extract ventilation.
Film formation - air drying (open systems)	Provide extract ventilation to points where emissions occur.
Preparation of material for application Mixing operations (open systems)	Provide extract ventilation to points where emissions occur.
Spraying (automatic/robotic)	Carry out in a vented booth provided with laminar airflow.
Manual spraying	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 with Type A filter or better.
Material transfers	Provide extract ventilation to points where emissions occur. or Avoid carrying out activities involving exposure for more than 1 hour.
Roller, spreader, flow application	Use ventilation to extract vapours from freshly coated articles/objects and surfaces.
Dipping, immersion and pouring	Provide extract ventilation to points where emissions occur. Avoid manual contact with wet work pieces.
Laboratory activities	Provide extract ventilation to points where emissions occur.
Material transfers Drum/batch transfers Transfer from/pouring from containers	Ensure material transfers are under containment or extract ventilation.
Production or preparation of articles by tableting, compression, extrusion or pelletisation.	Provide extract ventilation to points where emissions occur.
Storage	Store the substance in a closed system.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

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SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	
Section 3.2 - Environment	
No exposure assessment presented for the environment.	
SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	
Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES06: Uses in coatings - Professional		
Use descriptor	Sector of use: SU 22 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19 Environmental release categories: ERC 8A, ERC 8D		
Scope of the process	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities.		

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional information	No exposure assessment presented for the environment.		

Section 2.1		Control of worker exposure	
Product characteristic			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).		
Frequency and duration of use			
Covers daily exposures up to 8 hours (unless stated differently).			
Other given operational conditions affecting workers exposure.			
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.			

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (closed systems) with occasional controlled	No other specific measures identified.

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exposure.	
Filling / preparation of equipment from drums or containers	Ensure material transfers are under containment or extract ventilation.
Preparation of material for application (closed systems)	No other specific measures identified.
Film formation - air drying Outdoor.	Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Film formation - air drying Indoor.	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Provide extract ventilation to points where emissions occur.
Preparation of material for application (open systems) Indoor	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out operation for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Preparation of material for application (open systems) Outdoor.	Wear a respirator conforming to EN140 with Type A filter or better.
Material transfers Drum/batch transfers	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out operation for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Roller, spreader, flow application Indoor	Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Roller, spreader, flow application Outdoor.	Wear a respirator conforming to EN140 with Type A filter or better.
Manual Spraying Indoor	Carry out in a vented booth or extracted enclosure. Wear a respirator conforming to EN140 with Type A filter or better.

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Manual spraying Outdoor.	Avoid carrying out activities involving exposure for more than 4 hours. Wear a respirator conforming to EN140 with Type A filter or better.
Dipping, immersion and pouring Indoor	Provide extract ventilation to points where emissions occur. Avoid manual contact with wet work pieces.
Dipping, immersion and pouring Outdoor.	Avoid manual contact with wet work pieces.
Laboratory activities	Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Manual application - Fingerpaints, pastels, adhesives Indoor	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 with Type A filter or better.
Manual application - Fingerpaints, pastels, adhesives Outdoor.	Wear a respirator conforming to EN140 with Type A filter or better.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 3.2 - Environment
No exposure assessment presented for the environment.

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	

Section 4.2 - Environment
No exposure assessment presented for the environment.

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO
Title	ES07: Uses in cleaning agents - Industrial	
Use descriptor	Sector of use: SU 3 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13 Environmental release categories: ERC 4	
Scope of the process	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.	

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional information	No exposure assessment presented for the environment.	

Section 2.1		Control of worker exposure
Product characteristic		
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.	
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).	
Frequency and duration of use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other given operational conditions affecting workers exposure.		
Assumes a good basic standard of occupational hygiene is implemented.		

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Bulk transfers Dedicated facility	Avoid carrying out activities involving exposure for more than 1 hour.
Automated process with (semi) closed systems Use in contained systems	Avoid carrying out activities involving exposure for more than 4 hours.

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Drum/batch transfers	Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Application of cleaning products in closed systems	Avoid carrying out activities involving exposure for more than 4 hours.
Filling / preparation of equipment from drums or containers	Ensure material transfers are under containment or extract ventilation.
Use in contained batch processes	Provide extract ventilation to points where emissions occur.
Degreasing small objects in cleaning station	Provide extract ventilation to points where emissions occur.
Cleaning with low pressure washers	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Cleaning with high pressure washers	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Manual Surfaces cleaning No spraying	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 3.2 - Environment
No exposure assessment presented for the environment.

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SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	
Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO
Title	ES08: Uses in cleaning agents - Professional	
Use descriptor	Sector of use: SU 22 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 10, PROC 11, PROC 13, PROC 8a, PROC 8b Environmental release categories: ERC 8A, ERC 8B	
Scope of the process	Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).	

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional information	No exposure assessment presented for the environment.	

Section 2.1		Control of worker exposure
Product characteristic		
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.	
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).	
Frequency and duration of use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other given operational conditions affecting workers exposure.		
Assumes a good basic standard of occupational hygiene is implemented.		

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Filling / preparation of equipment from drums or containers	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Automated process with (semi) closed systems	Avoid carrying out activities involving exposure for more than 4 hours.

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Use in contained systems	
Drum/batch transfers	Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Semi automated process. (e.g. semi automatic application of floor care and maintenance products)	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 4 hours. or Wear a respirator conforming to EN140 with Type A filter or better.
Filling / preparation of equipment from drums or containers.	Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140 with Type A filter or better.
Manual Surfaces cleaning Dipping, immersion and pouring	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 4 hours. or Wear a respirator conforming to EN140 with Type A filter or better.
Cleaning with low pressure washers Rolling, brushing No spraying	Limit the substance content in the product to 5%. Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Cleaning with high pressure washers Spraying Indoor	Limit the substance content in the product to 1%. Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Cleaning with high pressure washers Spraying Outdoor.	Limit the substance content in the product to 1%. Avoid carrying out activities involving exposure for more than 4 hours. or Wear a respirator conforming to EN140 with Type A filter or better.
Manual Surfaces cleaning Spraying	Limit the substance content in the product to 25%. Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Ad hoc manual application via trigger sprays, dipping, etc.	Limit the substance content in the product to 25%. Provide extract ventilation to points where emissions occur.

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Rolling, brushing	Avoid carrying out operation for more than 4 hour. or Wear a respirator conforming to EN140 with Type A filter or better. Wear suitable gloves tested to EN374.
Application of cleaning products in closed systems Outdoor.	Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Cleaning of medical devices	Provide extract ventilation to points where emissions occur. Avoid carrying out activities involving exposure for more than 4 hours. or Wear a respirator conforming to EN140 with Type A filter or better.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO
Title	ES09: Lubricants – Industrial	
Use descriptor	Sector of use: SU 3 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17, PROC 18 Environmental release categories: ERC 4, ERC 7	
Scope of the process	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional information	No exposure assessment presented for the environment.	

Section 2.1		Control of worker exposure
Product characteristic		
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.	
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).	
Frequency and duration of use/exposure		
Covers daily exposures up to 8 hours (unless stated differently).		
Other given operational conditions affecting workers exposure.		
Assumes a good basic standard of occupational hygiene is implemented.		

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems) with occasional controlled exposure.	No other specific measures identified.
General exposure (open systems)	No other specific measures identified.
Bulk transfers	No other specific measures identified.

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Filling / preparation of equipment from drums or containers	Transfer via enclosed lines Use drum pumps or carefully pour from container.
Initial factory fill of equipment	Ensure material transfers are under containment or extract ventilation.
Operation and lubrication of high energy open equipment	Restrict area of openings to equipment.
Manual Rolling, brushing	Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Treatment by dipping and pouring	Restrict area of openings to equipment.
Spraying	Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.
Maintenance (of larger plant items) and machine set up	Provide extract ventilation to emission points when contact with warm (>50°C) lubricant is likely. Wear suitable gloves tested to EN374.
Maintenance of small items	Avoid carrying out activities involving exposure for more than 4 hours.
Remanufacture of reject articles	Avoid carrying out activities involving exposure for more than 4 hours.
Storage	No other specific measures identified.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.	

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Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.

Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure scenario – worker

SECTION 1	
TITLE EXPOSURE SCENARIO	
Title	ES10: Metal working fluids / rolling oils - Industrial
Use descriptor	Sector of use: SU 3 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17 Environmental release categories: ERC 4
Scope of the process	Covers the use in formulated MWFs/rolling oils within closed or contained systems including incidental exposures during transfer operations, rolling and annealing activities, cutting/machining activities, automated application of corrosion protections, equipment maintenance, draining and disposal of waste oils.

SECTION 2	
OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional information	No exposure assessment presented for the environment.

Section 2.1	
Control of worker exposure	
Product characteristic	
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).
Frequency and duration of use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other given operational conditions affecting workers exposure.	
Assumes a good basic standard of occupational hygiene is implemented.	

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (open systems)	No other specific measures identified.
Bulk transfers	Provide enhanced general ventilation by mechanical means. or

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	Ensure operation is undertaken outdoors. Avoid carrying out operation for more than 1 hour. Clear transfer lines prior to de-coupling.
Filling / preparation of equipment from drums or containers	Use drum pumps or carefully pour from container.
Process sampling	Use dedicated equipment.
Metal working activities	Provide extract ventilation to points where emissions occur. Restrict area of openings to equipment.
Treatment by dipping and pouring	Provide enhanced general ventilation by mechanical means.
Spraying	Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.
Manual rolling, brushing	Provide enhanced general ventilation by mechanical means.
Automated metal rolling/forming	Handle substance within a predominantly closed system provided with extract ventilation. Provide extract ventilation to points where emissions occur.
Semi-automated metal rolling/forming	Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.
Equipment cleaning and maintenance Dedicated facility	No other specific measures identified.
Equipment cleaning and maintenance Non-dedicated facility	Provide enhanced general ventilation by mechanical means. Drain or remove substance from equipment prior to break-in or maintenance.
Storage	Store the substance in a closed system. Transfer via enclosed lines

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

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Section 3.2 - Environment

No exposure assessment presented for the environment.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
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Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.
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Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure scenario – worker

SECTION 1	TITLE EXPOSURE SCENARIO
Title	ES11: Use in agrochemicals - Professional
Use descriptor	Sector of use: SU 22 Process categories: PROC 1, PROC 2, PROC 4, PROC 8a, PROC 8b, PROC 11, PROC 13 Environmental release categories: ERC 8A, ERC 8D
Scope of the process	Use as an agrochemical excipient for application by manual or machine spraying, smokes and fogging; including equipment clean-downs and disposal.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional information	No exposure assessment presented for the environment.

Section 2.1	Control of worker exposure
Product characteristic	
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).
Frequency and duration of use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other given operational conditions affecting workers exposure.	
Assumes a good basic standard of occupational hygiene is implemented.	

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Transfer from/pouring from containers	Ensure operation is undertaken outdoors.
Mixing in containers.	Ensure operation is undertaken outdoors.
Spraying/fogging by manual application	Wear a full face respirator conforming to EN136 with Type A filter or better.
Spraying/fogging by machine application	Apply within a vented cab supplied with filtered air under positive pressure and with a protection factor of >20.
Ad hoc manual	Wear suitable gloves tested to EN374.

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application via trigger sprays, dipping, etc.	Wear a respirator conforming to EN140 with Type A filter or better.
Equipment cleaning and maintenance	Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Avoid carrying out activities involving exposure for more than 1 hour.
Disposal of waste	Ensure operation is undertaken outdoors. Wear suitable gloves tested to EN374. Avoid carrying out activities involving exposure for more than 1 hour.
Storage	Store the substance in a closed system.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO
Title	ES12: Use as a fuel - Industrial	
Use descriptor	Sector of use: SU 3 Process categories: PROC 1, PROC 2, PROC 3, PROC 8a, PROC 8b, PROC 16 Environmental release categories: ERC 7	
Scope of the process	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional information	No exposure assessment presented for the environment.	

Section 2.1		Control of worker exposure
Product characteristic		
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.	
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).	
Frequency and duration of use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other given operational conditions affecting workers exposure.		
Assumes a good basic standard of occupational hygiene is implemented.		

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Bulk transfers	Transfer via enclosed lines Clear transfer lines prior to de-coupling.
Drum/batch transfers	Use drum pumps or carefully pour from container.
General exposure (closed systems)	No other specific measures identified.
Use as a fuel (closed systems)	No other specific measures identified.
Equipment cleaning and maintenance	Drain down and flush system prior to equipment break-in or maintenance.

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Storage	Store the substance in a closed system. Transfer via enclosed lines Ensure operation is undertaken outdoors.
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Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO
Title	ES13: Use as a fuel - Professional	
Use descriptor	Sector of use: SU 22 Process categories: PROC 1, PROC 2, PROC 3, PROC 8a, PROC 8b, PROC 16 Environmental release categories: ERC 9A, ERC 9B	
Scope of the process	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional information	No exposure assessment presented for the environment.	

Section 2.1		Control of worker exposure
Product characteristic		
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.	
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).	
Frequency and duration of use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other given operational conditions affecting workers exposure.		
Assumes a good basic standard of occupational hygiene is implemented.		

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Bulk transfers	Transfer via enclosed lines Clear transfer lines prior to de-coupling.
Drum/batch transfers	Use drum pumps or carefully pour from container. Avoid spillage when withdrawing pump.
Refuelling	Use drum pumps or carefully pour from container. Avoid spillage when withdrawing pump.
General exposure (closed systems)	No other specific measures identified.
Use as a fuel	No other specific measures identified.

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(closed systems)	
Equipment cleaning and maintenance	Drain down and flush system prior to equipment break-in or maintenance. Retain drain downs in sealed storage pending disposal or for subsequent recycle.
Storage	Store the substance in a closed system.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES14: Use in laboratories - Industrial		
Use descriptor	Sector of use: SU 3 Process categories: PROC 10, PROC 15 Environmental release categories: ERC 2, ERC 4		
Scope of the process	Use of the substance within laboratory settings, including material transfers and equipment cleaning.		

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional information	No exposure assessment presented for the environment.		

Section 2.1		Control of worker exposure	
Product characteristic			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).		
Frequency and duration of use			
Covers daily exposures up to 8 hours (unless stated differently).			
Other given operational conditions affecting workers exposure.			
Assumes a good basic standard of occupational hygiene is implemented.			

Contributing scenarios		Risk management measures	
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.		
Laboratory activities	No other specific measures identified.		
Cleaning	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Ensure the ventilation system is regularly maintained and tested.		

Section 2.2		Environmental exposure controls	
No exposure assessment presented for the environment.			

SECTION 3		EXPOSURE ESTIMATION	
Section 3.1 - Health			
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.			

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Section 3.2 - Environment

No exposure assessment presented for the environment.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
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Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.
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Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES15: Use in laboratories - Professional		
Use descriptor	Sector of use: SU 22 Process categories: PROC 10, PROC 15 Environmental release categories: ERC 8A		
Scope of the process	Use of small quantities within laboratory settings, including material transfers and equipment cleaning.		

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional information	No exposure assessment presented for the environment.		

Section 2.1		Control of worker exposure	
Product characteristic			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).		
Frequency and duration of use			
Covers daily exposures up to 8 hours (unless stated differently).			
Other given operational conditions affecting workers exposure.			
Assumes a good basic standard of occupational hygiene is implemented.			

Contributing scenarios		Risk management measures	
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.		
Laboratory activities	No other specific measures identified.		
Cleaning	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. Ensure the ventilation system is regularly maintained and tested.		

Section 2.2		Environmental exposure controls	
No exposure assessment presented for the environment.			

SECTION 3		EXPOSURE ESTIMATION	
Section 3.1 - Health			

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used unless otherwise indicated.

Section 3.2 - Environment

No exposure assessment presented for the environment.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.

Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure scenario – consumer

SECTION 1	TITLE EXPOSURE SCENARIO
Title	ES16: Uses in coatings - consumer
Use descriptor	Sector of use: SU 21 Product categories: PC1, PC4, PC8 (binding agents only), PC9a, PC9b, PC15, PC18, PC23, PC24, PC31, PC34 Environmental release categories: ERC 8A, ERC 8D
Scope of the process	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional information	No exposure assessment presented for the environment.

Section 2.1	Control of consumer exposure
Product characteristic	
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP
Concentration of substance in product.	Unless otherwise indicated.
	Covers concentrations up to (%): 100%
Amounts used	
Unless otherwise indicated.	
For each use event, covers use amounts up to (g):	13,800
Covers skin contact area up to (cm ²):	857.5
Frequency and duration of use/exposure	
Unless otherwise indicated.	
Covers use up to (times/day of use):	1
Covers use up to (hours/event):	6
Other given operational conditions affecting user exposure	
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m ³ Covers use under typical household ventilation.	

Product categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Adhesives, sealants Glues, hobby use.	Covers concentrations up to 30%
	Covers use up to 365 days/year
	Covers use up to 1 time/day

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	Covers skin contact area up to 35.73 cm ²
	For each use event, covers use amounts up to 9 g
	Covers use in room size of 20m ³
	Covers exposure up to 4 hours/event
Adhesives, sealants Glues DIY-use (carpet glue, tile glue, wood parquet glue)	Covers concentrations up to 30%
	Covers use up to 1 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 110.00 cm ²
	For each use event, covers use amounts up to 6,390 g
	Covers use in room size of 20m ³
	Covers exposure up to 6.00 hours/event
Adhesives, sealants Glue from spray	Covers concentrations up to 30%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 35.73 cm ²
	For each use event, covers use amounts up to 85.05 g
	Covers use in room size of 20m ³
	Covers exposure up to 4.00 hours/event
Adhesives, sealants Sealants	Covers concentrations up to 20%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 35.73 cm ²
	For each use event, covers use amounts up to 75 g
	Covers use in room size of 34 m ³
	Covers exposure up to 1.00 hours/event
Anti-freeze and de-icing products. Washing car windows	Covers concentrations up to 1%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	For each use event, covers use amounts up to 0.5 g
	Covers use in a one car garage (34 m ³) under typical ventilation. 34 m ³
	Covers use in room size of 34 m ³
	Covers exposure up to 0.02 hours/event
Anti-freeze and de-icing products. Pouring into radiator	Covers concentrations up to 10%
	Covers use up to 365 days/year

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	Covers use up to 1 time/day
	Covers skin contact area up to 428 cm ²
	For each use event, covers use amounts up to 2,000 g
	Covers use in a one car garage (34 m ³) under typical ventilation. 34 m ³
	Covers use in room size of 34 m ³
	Covers exposure up to 0.17 hours/event
Biocidal products (e.g. disinfectants, pest control) cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners) PC8 (binding agents only)	Covers concentrations up to 5%
	Covers use up to 128 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm ²
	For each use event, covers use amounts up to 27 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.33 hours/event
Biocidal products (e.g. disinfectants, pest control) Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) PC8 (binding agents only)	Covers concentrations up to 15%
	Covers use up to 128 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428 cm ²
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.17 hours/event
Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint	Covers concentrations up to 27.5%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm ²
	For each use event, covers use amounts up to 744 g
	Covers use in room size of 20m ³

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	Covers exposure up to 2.20 hours/event
Coatings and paints, thinners, paint removers Aerosol spray can	Covers concentrations up to 50%
	Covers use up to 2 days/year
	Covers use up to 1 time/day
	For each use event, covers use amounts up to 215 g
	Covers use in a one car garage (34 m ³) under typical ventilation.
	Covers use in room size of 34 m ³
	Covers exposure up to 0.33 hours/event
Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover)	Covers concentrations up to 50%
	Covers use up to 3 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm ²
	For each use event, covers use amounts up to 491 g
	Covers use in room size of 20m ³
	Covers exposure up to 2.00 hours/event
Fillers and putty	Covers concentrations up to 2%
	Covers use up to 12 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 35.73 cm ³
	For each use event, covers use amounts up to 85 g
	Covers use in room size of 20m ³
	Covers exposure up to 4 hours/event
Fillers and putty Plasters and floor equalizers	Covers concentrations up to 2%
	Covers use up to 12 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm ²
	For each use event, covers use amounts up to 13,800 g
	Covers use in room size of 20m ³
	Covers exposure up to 2.00 hours/event
Non-metal-surface treatment products Solvent rich, high solid, water borne paint	Covers concentrations up to 27.5%
	Covers use up to 6 days/year

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	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm ²
	For each use event, covers use amounts up to 744 g
	Covers use in room size of 20m ³
	Covers exposure up to 2.20 hours/event
Non-metal-surface treatment products Aerosol spray can	Covers concentrations up to 50%
	Covers use up to 2 days/year
	Covers use up to 1 time/day
	For each use event, covers use amounts up to 215 g
	Covers use in a one car garage (34 m ³) under typical ventilation.
	Covers use in room size of 34 m ³
	Covers exposure up to 0.33 hours/event
Non-metal-surface treatment products Removers (paint-, glue-, wall paper-, sealant-remover)	Covers concentrations up to 50%
	Covers use up to 3 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm ²
	For each use event, covers use amounts up to 491 g
	Covers use in room size of 20m ³
	Covers exposure up to 2.00 hours/event
Ink and toners	Covers concentrations up to 10%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 71.40 cm ²
	For each use event, covers use amounts up to 40 g
	Covers use in room size of 20m ³
	Covers exposure up to 2.20 hours/event
Leather tanning, dye, finishing, impregnation and care products Polishes, wax / cream (floor, furniture, shoes)	Covers concentrations up to 50%
	Covers use up to 29 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm ²
	For each use event, covers use amounts up to 56 g
	Covers use in room size of 20m ³
	Covers exposure up to 1.23 hours/event
Leather tanning,	Covers concentrations up to 50%

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dye, finishing, impregnation and care products Polishes, spray (furniture, shoes)	
	Covers use up to 8 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm ²
	For each use event, covers use amounts up to 56 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.33 hours/event
Lubricants, greases and release products Liquids	Covers concentrations up to 100%
	Covers use up to 4 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 468.00 cm ²
	For each use event, covers use amounts up to 2,200 g
	Covers use in a one car garage (34 m ³) under typical ventilation.
	Covers use in room size of 34 m ³
	Covers exposure up to 0.17 hours/event
Lubricants, greases and release products Pastes	Covers concentrations up to 20%
	Covers use up to 10 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 468.00 cm ²
	For each use event, covers use amounts up to 34 g
	Covers use in room size of 20m ³
Lubricants, greases and release products Sprays	Covers concentrations up to 50%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm ²
	For each use event, covers use amounts up to 73 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.17 hours/event
Polishes and wax blends Polishes, wax / cream (floor, furniture, shoes)	Covers concentrations up to 50%
	Covers use up to 29 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm ²
	For each use event, covers use amounts up to 142 g
	Covers use in room size of 20m ³
	Covers exposure up to 1.23 hours/event
Polishes and wax blends Polishes, spray (furniture,	Covers concentrations up to 50%

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shoes)	
	Covers use up to 8 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm ²
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.33 hours/event
Textile dyes, finishing and impregnating products; including bleaches and other processing aids	Covers concentrations up to 10%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm ²
	For each use event, covers use amounts up to (g): 115 g
	Covers use in room size of 20m ³
	Covers exposure up to 1.00 hours/event

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
<p>Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.</p> <p>Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.</p>	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – consumer

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES17: Uses in cleaning agents - consumer		
Use descriptor	Sector of use: SU 21 Product categories: PC9a, PC9b, PC24, PC35 Environmental release categories: ERC 8A, ERC 8D		
Scope of the process	Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.		

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional information	No exposure assessment presented for the environment.		

Section 2.1		Control of consumer exposure	
Product characteristic			
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP		
Concentration of substance in product.			
	Unless otherwise indicated.		
	Covers concentrations up to (%): 50%		
Amounts used			
Unless otherwise indicated.			
For each use event, covers use amounts up to (g):	13,800		
Covers skin contact area up to (cm ²):	857.5		
Frequency and duration of use/exposure			
Unless otherwise indicated.			
Covers use up to (times/day of use):	0.35		
Covers use up to (hours/event):	2.2		
Other given operational conditions affecting user exposure			
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m ³ Covers use under typical household ventilation.			

Product categories		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint	Covers concentrations up to 27.5%		
	Covers use up to 6 days/year		

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	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm ²
	For each use event, covers use amounts up to 744 g
	Covers use in room size of 20m ³
	Covers exposure up to 2.20 hours/event
Coatings and paints, thinners, paint removers Aerosol spray can	Covers concentrations up to 50%
	Covers use up to 2 days/year
	Covers use up to 1 time/day
	For each use event, covers use amounts up to 215 g
	Covers use in a one car garage (34 m ³) under typical ventilation.
	Covers use in room size of 34 m ³
	Covers exposure up to 0.33 hours/event
Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover)	Covers concentrations up to 50%
	Covers use up to 3 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm ²
	For each use event, covers use amounts up to 491 g
	Covers use in room size of 20m ³
	Covers exposure up to 2.00 hours/event
Fillers and putty Plasters and floor equalizers	Covers concentrations up to 2%
	Covers use up to 12 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm ²
	For each use event, covers use amounts up to 13,800 g
	Covers use in room size of 20m ³
	Covers exposure up to 2.00 hours/event
Lubricants, greases and release products Liquids	Covers concentrations up to 50%
	Covers use up to 4 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 468 cm ²
	For each use event, covers use amounts up to 2,200 g
	Covers use in a one car garage (34 m ³) under typical ventilation.
	Covers use in room size of 34 m ³
	Covers exposure up to 0.17 hours/event

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Lubricants, greases and release products Pastes	Covers concentrations up to 20%
	Covers use up to 10 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 468 cm ²
	For each use event, covers use amounts up to 34 g
	Covers use in room size of 20m ³
Lubricants, greases and release products Sprays	Covers concentrations up to 20%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm ²
	For each use event, covers use amounts up to 73 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.17 hours/event
Washing and cleaning products (including solvent based products) Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)	Covers concentrations up to 5%
	Covers use up to 128 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm ²
	For each use event, covers use amounts up to 27 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.33 hours/event
Washing and cleaning products (including solvent based products) Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)	Covers concentrations up to 15%
	Covers use up to 128 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428 cm ²
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.17 hours/event

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
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Section 3.1 - Health

The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.

Section 3.2 - Environment

No exposure assessment presented for the environment.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.

Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure scenario – consumer

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES18: Lubricants – consumer		
Use descriptor	Sector of use: SU 21 Product categories: PC1, PC24, PC31 Environmental release categories: ERC 8A, ERC 8D, ERC 9A, ERC 9B		
Scope of the process	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.		

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional information	No exposure assessment presented for the environment.		

Section 2.1		Control of consumer exposure	
Product characteristic			
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP		
Concentration of substance in product.	Unless otherwise indicated.		
	Covers concentrations up to (%): 100%		
Amounts used			
Unless otherwise indicated.			
For each use event, covers use amounts up to (g):	6,390		
Covers skin contact area up to (cm ²):	468		
Frequency and duration of use/exposure			
Unless otherwise indicated.			
Covers use up to (times/day of use):	1		
Covers use up to (hours/event):	6		
Other given operational conditions affecting user exposure			
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m ³ Covers use under typical household ventilation.			

Product categories		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Adhesives, sealants Glues, hobby use.	Covers concentrations up to 30%		
	Covers use up to 365 days/year		
	Covers use up to 1 time/day		
	Covers skin contact area up to 35.73 cm ²		

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	For each use event, covers use amounts up to 9 g
	Covers use in room size of 20m ³
	Covers exposure up to 4.00 hours/event
Adhesives, sealants Glues DIY-use (carpet glue, tile glue, wood parquet glue)	Covers concentrations up to 30%
	Covers use up to 1 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 110.00 cm ²
	For each use event, covers use amounts up to 6,390 g
	Covers use in room size of 20m ³
	Covers exposure up to 6.00 hours/event
Adhesives, sealants Glue from spray	Covers concentrations up to 30%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 35.73 cm ²
	For each use event, covers use amounts up to 85.05 g
	Covers use in room size of 20m ³
	Covers exposure up to 4.00 hours/event
Adhesives, sealants Plasters and floor equalizers Sealants	Covers concentrations up to 25%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 35.73 cm ²
	For each use event, covers use amounts up to 75 g
	Covers use in room size of 20m ³
	Covers exposure up to 1.00 hours/event
Lubricants, greases and release products Liquids	Covers concentrations up to 100%
	Covers use up to 4 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 468 cm ²
	For each use event, covers use amounts up to 2,200 g
	Covers use in a one car garage (34 m ³) under typical ventilation.
	Covers use in room size of 34 m ³
	Covers exposure up to 0.17 hours/event
Lubricants, greases and release products Pastes	Covers concentrations up to 20%
	Covers use up to 10 days/year

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	Covers use up to 1 time/day
	Covers skin contact area up to 468 cm ²
	For each use event, covers use amounts up to 34 g
	Covers use in room size of 20m ³
Lubricants, greases and release products Sprays	Covers concentrations up to 50%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm ²
	For each use event, covers use amounts up to 73 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.17 hours/event
Polishes and wax blends Polishes, wax / cream (floor, furniture, shoes)	Covers concentrations up to 50%
	Covers use up to 29 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm ²
	For each use event, covers use amounts up to 142 g
	Covers use in room size of 20m ³
	Covers exposure up to 1.23 hours/event
Polishes and wax blends Polishes, spray (furniture, shoes)	Covers concentrations up to 50%
	Covers use up to 8 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm ²
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.33 hours/event

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the	

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risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.

Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure scenario – consumer

SECTION 1	TITLE EXPOSURE SCENARIO
Title	ES19: Use in agrochemicals - consumer
Use descriptor	Sector of use: SU 21 Product categories: PC12, PC27 Environmental release categories: ERC 8A, ERC 8D
Scope of the process	Covers the consumer use in agrochemicals in liquid and solid forms.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional information	No exposure assessment presented for the environment.

Section 2.1	Control of consumer exposure
Product characteristic	
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP
Concentration of substance in	Unless otherwise indicated.
	Covers concentrations up to (%): 4%
Amounts used	
Unless otherwise indicated.	
For each use event, covers use amounts up to (g):	50
Covers skin contact area up to (cm ²):	857.5
Frequency and duration of use/exposure	
Unless otherwise indicated.	
Covers use up to (times/day of use):	1
Covers use up to (hours/event):	0.5
Other given operational conditions affecting user exposure	
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m ³ Covers use under typical household ventilation.	

Product categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Fertilizers Lawn and garden preparations	Covers concentrations up to 4%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm ²
	For each use event, assumes swallowed amount of 0.3 g
	For each use event, covers use amounts up to 50 g

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	Covers use in room size of 20m ³
	Covers exposure up to 0.50 hours/event
Plant protection products	Covers concentrations up to 42.5%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm ²
	For each use event, assumes swallowed amount of 0.3 g
	For each use event, covers use amounts up to 50 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.50 hours/event

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – consumer

SECTION 1	TITLE EXPOSURE SCENARIO
Title	ES20: Use as a fuel - consumer
Use descriptor	Sector of use: SU 21 Product categories: PC13 Environmental release categories: ERC 9A, ERC 9B
Scope of the process	Covers consumer uses in liquid fuels.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional information	No exposure assessment presented for the environment.

Section 2.1	Control of consumer exposure
Product characteristic	
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP
Concentration of substance in product.	Unless otherwise indicated.
	Covers concentrations up to (%): 100%
Amounts used	
Unless otherwise indicated.	
For each use event, covers use amounts up to (g):	37,500
Covers skin contact area up to (cm ²):	420
Frequency and duration of use/exposure	
Unless otherwise indicated.	
Covers use up to (times/day of use):	0.143
Covers use up to (hours/event):	2
Other given operational conditions affecting user exposure	
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m ³ Covers use under typical household ventilation.	

Product categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Fuels Liquid: Automotive refuelling	Covers concentrations up to 100%
	Covers use up to 52 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 210.00 cm ²
	For each use event, covers use amounts up to 37,500 g
	Covers outdoor use.
	Covers use in room size of 100 m ³
	Covers exposure up to 0.05 hours/event

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Fuels Liquid: scooter refuelling	Covers concentrations up to 100%
	Covers use up to 52 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 210.00 cm ²
	For each use event, covers use amounts up to 3,750 g
	Covers outdoor use.
	Covers use in room size of 100 m ³
	Covers exposure up to 0.03 hours/event
Fuels Liquid: Garden equipment - use	Covers concentrations up to 100%
	Covers use up to 26 days/year
	Covers use up to 1 time/day
	For each use event, covers use amounts up to 750 g
	Covers outdoor use.
	Covers use in room size of 100 m ³
	Covers exposure up to 2.00 hours/event
Fuels Liquid: Garden equipment - refuelling	Covers concentrations up to 100%
	Covers use up to 26 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 420.00 cm ²
	For each use event, covers use amounts up to 750 g
	Covers use in a one car garage (34 m ³) under typical ventilation.
	Covers use in room size of 34 m ³
	Covers exposure up to 0.03 hours/event
Fuels Liquid: Lamp oil	Covers concentrations up to 100%
	Covers use up to 52 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 210.00 cm ³
	For each use event, covers use amounts up to 100 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.01 hours/event

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

Section 3.2 - Environment	
No exposure assessment presented for the environment.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE
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EXPOSURE SCENARIO	
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	
Section 4.2 - Environment	
No exposure assessment presented for the environment.	