

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 8/2/2023 Revision date: 6/30/2024 Supersedes version of: 8/23/2021 Version: 5.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance Substance name : MEK

Chemical name : Methyl ethyl ketone ; MEK, 2-Butanone

 IUPAC name
 : Butanone

 EC Index-No.
 : 606-002-00-3

 EC-No.
 : 201-159-0

 CAS-No.
 : 78-93-3

Synonyms : 2-BUTANONE; ETHYL METHYL KETONE / Butan-2-one / Solvent / Paint Thinner

Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use Industrial/Professional use spec : Industrial

Laboratory chemicals

Use of the substance/mixture : Used for surface coatings, Adhesives, Printing inks, Chemical intermediates, Magnetic

tapes, Lube oil dewaxing agents

Use of the substance/mixture : Solvents
Function or use category : Solvents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

CANNOCK CHEMICALS LIMITED
North Street Industrial Estate Bridgtown
WS11 0AZ Cannock – Staffs
United Kingdom
T +44 (0)1543 571 762 - F +44 (0) 1543 660 011

<u>david.banks@cannockchemicals.com</u> - <u>www.cannockchemicals.com</u>

1.4. Emergency telephone number

Emergency number : +44 (0) 7971439628

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB	0344 892 0111	Only for healthcare professionals

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225 Serious eye damage/eye irritation, Category 2 H319 Specific target organ toxicity – Single exposure, Category 3, H336

Narcosis

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :





GHS07

5HS02

Signal word (CLP) : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P261 - Avoid breathing mist, spray, vapours, fume.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective clothing, eye protection, face protection, protective gloves.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P312 - Call doctor if you feel unwell.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

Extra phrases : Keep out of the reach of children.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

 Name
 : MEK

 CAS-No.
 : 78-93-3

 EC-No.
 : 201-159-0

 EC Index-No.
 : 606-002-00-3

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Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
ETHYL METHYL KETONE	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3	100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H- and EUH-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing

 $\ dust/fume/gas/mist/vapours/spray.\ Avoid\ contact\ with\ skin\ and\ eyes.$

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective

equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

MEK (78-93-3)				
EU - Indicative Occupational Exposure Limit (IOEL)				
Local name	Butanone			
IOEL TWA	600 mg/m³			
IOEL TWA [ppm]	200 ppm			
IOEL STEL	900 mg/m³			
IOEL STEL [ppm]	300 ppm			
Regulatory reference COMMISSION DIRECTIVE 2000/39/EC				
United Kingdom - Occupational Exposure Limits				
Local name	Butan-2-one (methyl ethyl ketone)			
WEL TWA (OEL TWA) [1]	600 mg/m³			
WEL TWA (OEL TWA) [2]	200 ppm			
WEL STEL (OEL STEL) 899 mg/m³				
WEL STEL (OEL STEL) [ppm]	300 ppm			

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MEK (78-93-3)				
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)			
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE			
United Kingdom - Biological limit values				
Local name	Butan-2-one (methyl ethyl ketone)			
BMGV	70 μmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift			
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE				

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

MEK (78-93-3)				
DNEL/DMEL (Workers)				
Long-term - systemic effects, dermal	1161 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	600 mg/m³			
DNEL/DMEL (General population)				
Long-term - systemic effects,oral	31 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	106 mg/m³			
Long-term - systemic effects, dermal	412 mg/kg bodyweight/day			
PNEC (Water)				
PNEC aqua (freshwater)	55.8 mg/l			
PNEC aqua (marine water)	55.8 mg/l			
PNEC aqua (intermittent, freshwater)	55.8 mg/l			
PNEC (Sediment)				
PNEC sediment (freshwater)	284.74 mg/kg dwt			
PNEC sediment (marine water)	284.7 mg/kg dwt			
PNEC (Soil)				
PNEC soil	22.5 mg/kg dwt			
PNEC (Oral)				
PNEC oral (secondary poisoning)	1000 mg/kg food			
PNEC (STP)				
PNEC sewage treatment plant	709 mg/l			

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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8.2.2. Personal protection equipment

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance : Liquid.

Molecular mass : 72.11 g/mol Source: NCIS

Colour : Yellow-brown.
Odour : Characteristic odour.
Odour threshold : No data available

pH : N/A

Relative evaporation rate (butylacetate=1) : 2.7 Source: HSDB

Melting point : -86 °C Source: ICSC

Freezing point : No data available

Boiling point : 79.59 °C Source: HSDB

Flash point : -9 °C Source: ICSC, ECHA

Auto-ignition temperature : 505 °C Source: ICSC Decomposition temperature : No data available Flammability (solid, gas) : Not applicable

Vapour pressure : 90.6 mm Hg at 25°C Source: HSDB

Relative vapour density at 20°C : 2.41 Source: ICSC Relative density : 0.8 Source: ICSC

Density : 0.81 g/cm³ Type: 'density' Temp.: 20 °C Solubility : Water: 29 g/100ml at 20 °C Source: ICSC

Partition coefficient n-octanol/water (Log Pow) : 0.29 Source: ICSC Viscosity, kinematic : 0.494 mm²/s Viscosity, dynamic : 0.4 cP Source: HSDB

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Explosive properties : Not applicable.

Oxidising properties : Non oxidising.

Lower explosive limit (LEL) : 1.5% (V)

Upper explosive limit (UEL) : 1.8 – 11.5 % Source: ICSC

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

MEK (78-93-3)		
LD50 oral rat	2193 mg/kg Source: ECHA	
LD50 dermal rabbit	> 10 mg/kg Source: ECHA	
LC50 Inhalation - Rat (Vapours)	32 mg/l Source: RTECS	

Skin corrosion/irritation : Not classified pH: N/A

Serious eye damage/irritation : Causes serious eye irritation.

pH: N/A

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

ETHYL METHYL KETONE (78-93-3)

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified Aspiration hazard : Not classified

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MEK (78-93-3)	
Viscosity, kinematic	0.494 mm²/s

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

: Not classified

Not rapidly degradable

MEK (78-93-3)	
LC50 - Fish [1]	2993 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	308 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

MEK (78-93-3)	
Partition coefficient n-octanol/water (Log Pow)	0.29 Source: ICSC

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR IMDG		IATA ADN		RID	
14.1. UN number					
UN 1193 UN 1193		UN 1193	UN 1193	UN 1193	

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IMDG	IATA	ADN	RID					
14.2. UN proper shipping name								
ETHYL METHYL KETONE (METHYL ETHYL KETONE)	Ethyl methyl ketone	ETHYL METHYL KETONE (METHYL ETHYL KETONE)	ETHYL METHYL KETONE (METHYL ETHYL KETONE)					
ption								
UN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE), 3, II, (D/E) KETONE), 3, II (-1°C c.c.) UN 1193 Ethyl methyl ketone, 3, II UN 1193 ETHYL METHYL KETONE), 3, II (-1°C c.c.) KETONE), 3, II (-1°C c.c.)								
lass(es)								
3	3	3	3					
3	***	3	3					
II	II	II	II					
ards								
Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No					
	g name ETHYL METHYL KETONE (METHYL ETHYL KETONE) ption UN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE), 3, II (-1°C c.c.) lass(es) Il ards Dangerous for the environment: No	ETHYL METHYL KETONE (METHYL ETHYL KETONE) ption UN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE), 3, II (-1°C c.c.) lass(es) II II II Dangerous for the environment: No Ethyl methyl ketone UN 1193 Ethyl methyl ketone, 3, II II II Dangerous for the environment: No	ETHYL METHYL KETONE (METHYL ETHYL KETONE) Ption UN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE) UN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE), 3, II (-1°C c.c.) Ilass(es) II II II II Bards Dangerous for the environment: No Ethyl methyl ketone (METHYL ETHYL KETONE) UN 1193 Ethyl methyl KETONE (METHYL METHYL KETONE), 3, II II II Dangerous for the environment: No Dangerous for the environment: No					

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1

(ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation (ADR) : S2, S20
Hazard identification number (Kemler No.) : 33

Orange plates :

33 1193

Tunnel restriction code (ADR) : D/E EAC code : •2YE

Transport by sea

Limited quantities (IMDG) : 1 L Excepted quantities (IMDG) : E2 : P001 Packing instructions (IMDG) : IBC02 IBC packing instructions (IMDG) : T4 Tank instructions (IMDG) : TP1 Tank special provisions (IMDG) EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-D

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Stowage category (IMDG) : B
Flash point (IMDG) : -1°C c.c.

Properties and observations (IMDG) : Colourless liquid. Flashpoint: -1°C c.c. Explosive limits: 1.8% to 11.5% Miscible with water.

Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) Y341 PCA limited quantity max net quantity (IATA) 1L PCA packing instructions (IATA) 353 PCA max net quantity (IATA) 5L CAO packing instructions (IATA) 364 : 60L CAO max net quantity (IATA) ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : F1
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1

(RID)

Tank codes for RID tanks (RID): LGBFTransport category (RID): 2Colis express (express parcels) (RID): CE7Hazard identification number (RID): 33

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

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Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Methylethylketone	Butanone	78-93-3	2914 12 00	Category 3		Annex I

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	

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Abbreviations and acronyms:		
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
EUH066	Repeated exposure may cause skin dryness or cracking.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
H225	Highly flammable liquid and vapour.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.