

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

1.1 Product identifier

Trade name/designation

Thinner 6811

UFI: FUHP-ND2J-N00Y-NK7T

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

Relevant identified uses

Diluent

1.3 Details of the supplier of the safety data sheet

Supplier

HM Industrieservice GmbH

Großer Sand 3

76698 Ubstadt-Weiher

Germany

Telephone: +49 7251 44127 0

Telefax: +49 7251 44127 29

E-mail: info@hm-industrie.de

Department responsible for information

E-mail (competent person) info@hm-industrie.de

1.4 Emergency telephone number

Zentrale HM Industrieservice GmbH

Emergency telephone number: +49 7251 44127 0

(Mo-Fr 7:30-16:00 Uhr)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 2

H225 Highly flammable liquid and vapour.

Asp. Tox. 1

H304 May be fatal if swallowed and enters airways.

Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2

H319 Causes serious eye irritation.

Acute Tox. 4 inhalative

H332 Harmful if inhaled.

STOT SE 3 Irritation to
respiratory tract

H335 May cause respiratory irritation.

STOT SE 3 Narcotic effects H336 May cause drowsiness or dizziness.

Carc. 2

H351 Suspected of causing cancer.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms



GHS02

GHS07

GHS08

Signal word

Danger

Hazard statements

H225

Highly flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H332

Harmful if inhaled.

H335

May cause respiratory irritation.

H336

May cause drowsiness or dizziness.

H351

Suspected of causing cancer.

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according to Regulation (EU) 2020/878

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H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves and eye protection/face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER.
P331 Do NOT induce vomiting.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.

Hazard components for labelling

1-methoxy-2-propanol
4-methylpentan-2-one
reaction mass of ethylbenzene and xylene

Supplemental hazard information

not applicable

2.3 Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 3: Composition/information on ingredients.

3.2 Mixtures

Hazardous ingredients

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	% [mass]
108-10-1 203-550-1 606-004-00-4	4-methylpentan-2-one 01-2119473980-30 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / Acute Tox. 4 H332 / STOT SE 3 H336 / Carc. 2 H351 / EUH066 ATE (inhalation, vapour): 11 mg/L	> 25,0 - ≤ 35,0
107-98-2 203-539-1 603-064-00-3	1-methoxy-2-propanol 01-2119457435-35 Flam. Liq. 3 H226 / STOT SE 3 H336	> 25,0 - ≤ 35,0
- 905-588-0 -	reaction mass of ethylbenzene and xylene 01-2119488216-32 Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Acute Tox. 4 H312 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Acute Tox. 4 H332 / STOT SE 3 H335 / STOT RE 2 H373 / Aquatic Chronic 3 H412 ATE (dermal): 1,100 mg/kg ATE (inhalation, vapour): 11 mg/L	> 25,0 - ≤ 35,0

Remark

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners. Wash contaminated clothing before reuse.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Powder, spray mist, (water)

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Inhaling hazardous decomposing products can cause serious health damage.

Hazardous combustion products

Carbon oxides (CO_x)

5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For containment

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

For cleaning up

Clean using cleansing agents. Do not use solvents.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: refer to section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Use only spark proof tools.

Avoid contact with skin, eyes and clothes.

Personal protection equipment: see section 8.

Always keep in containers that correspond to the material of the original container.
Follow the legal protection and safety regulations.

Additional information

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Measures to prevent fire

Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Keep away from sources of ignition - No smoking.

Advices on general occupational hygiene

When using do not eat, drink or smoke.

7.2

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSivO).

Keep container tightly closed.

Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Storage class LGK3 - Flammable liquids

Further information on storage conditions

Protect from heat and direct sunlight. Remove all sources of ignition.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No. Substance name	Long-term/short-term (peak limitation)	Source	Method/Remark
107-98-2 1-methoxy-2-propanol	375 / 560 (-) mg/m ³ 100 / 150 (-) ppm	WEL	(may be absorbed through the skin)
108-10-1 4-methylpentan-2-one	208 / 416 (-) mg/m ³ 50 / 100 (-) ppm	WEL	(may be absorbed through the skin)
- reaction mass of ethylbenzene and xylene	220 / 441 (-) mg/m ³ 50 / 100 (-) ppm	WEL	(may be absorbed through the skin)

Additional information

Long-term: Long-term occupational exposure limit value

Short-term: short-term occupational exposure limit value

Biological limit values

CAS No.	Substance name	Source	Value/ Test material
108-10-1	4-methylpentan-2-one	BMGV	20 µmol/L / urine end of exposure or end of shift
-	reaction mass of ethylbenzene and xylene	BMGV	650 mmol/mol creatinine / urine end of exposure or end of shift

DNEL worker

CAS No.	Substance name	DNEL type	DNEL value
108-10-1	4-methylpentan-2-one	DNEL long-term inhalative (systemic)	83 mg/m ³
108-10-1	4-methylpentan-2-one	DNEL acute inhalative (systemic)	208 mg/m ³
108-10-1	4-methylpentan-2-one	DNEL long-term inhalative (local)	83 mg/m ³
108-10-1	4-methylpentan-2-one	DNEL acute inhalative (local)	208 mg/m ³
108-10-1	4-methylpentan-2-one	DNEL long-term dermal (systemic)	11.8 mg/kg bw/day
-	reaction mass of ethylbenzene and xylene	Long-term – inhalation, systemic	221 mg/m ³

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		effects	
-	reaction mass of ethylbenzene and xylene	Acute - inhalation, local effects	442 mg/m ³
-	reaction mass of ethylbenzene and xylene	Long-term – inhalation, local effects	221 mg/m ³
-	reaction mass of ethylbenzene and xylene	Long-term - dermal, systemic effects	212 mg/kg bw/day

DNEL Consumer

CAS No.	Substance name	DNEL type	DNEL value
108-10-1	4-methylpentan-2-one	DNEL long-term inhalative (systemic)	14.7 mg/m ³
108-10-1	4-methylpentan-2-one	DNEL acute inhalative (systemic)	155.2 mg/m ³
108-10-1	4-methylpentan-2-one	DNEL long-term inhalative (local)	14.7 mg/m ³
108-10-1	4-methylpentan-2-one	DNEL acute inhalative (local)	155.2 mg/m ³
108-10-1	4-methylpentan-2-one	DNEL long-term dermal (systemic)	4.2 mg/kg bw/day
108-10-1	4-methylpentan-2-one	DNEL long-term oral (repeated)	4.2 mg/kg bw/day
-	reaction mass of ethylbenzene and xylene	Long-term – inhalation, systemic effects	65.3 mg/m ³
-	reaction mass of ethylbenzene and xylene	Acute - inhalation, systemic effects	260
-	reaction mass of ethylbenzene and xylene	Long-term – inhalation, local effects	65.3 mg/m ³
-	reaction mass of ethylbenzene and xylene	Acute - inhalation, local effects	260 mg/m ³
-	reaction mass of ethylbenzene and xylene	Long-term - dermal, systemic effects	125 mg/kg bw/day
-	reaction mass of ethylbenzene and xylene	Long-term - oral, systemic effects	12.5 mg/kg bw/day

PNEC

CAS No.	Substance name	PNEC type	PNEC Value
108-10-1	4-methylpentan-2-one	PNEC aquatic, freshwater	0.6 mg/L
108-10-1	4-methylpentan-2-one	PNEC aquatic, marine water	0.06 mg/L
108-10-1	4-methylpentan-2-one	PNEC sewage treatment plant (STP)	27.5 mg/L
108-10-1	4-methylpentan-2-one	PNEC sediment, freshwater	8.27 mg/kg dry weight
108-10-1	4-methylpentan-2-one	PNEC sediment, marine water	0.83 mg/kg dry weight
108-10-1	4-methylpentan-2-one	PNEC aquatic, intermittent release	1.5 mg/L
-	reaction mass of ethylbenzene and xylene	aquatic, intermittent release	0.327 mg/L
-	reaction mass of ethylbenzene and xylene	aquatic, marine water	0.327 mg/L
-	reaction mass of ethylbenzene and xylene	sewage treatment plant	6.58 mg/L
-	reaction mass of ethylbenzene and xylene	sediment, freshwater	12.46 mg/kg sediment dw
-	reaction mass of ethylbenzene and xylene	sediment, marine water	12.46 mg/kg sediment dw

8.2 Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

Respiratory protection necessary at: insufficient ventilation

Suitable respiratory protection apparatus: Full-/half-/quarter-face masks (EN 136/140) Filter type: A

Hand protection

Suitable material: FKM (fluoro rubber)
Thickness of the glove material ≥ 0.4 mm
Breakthrough time ≥ 480 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.
Recommended glove articles: EN ISO 374

Skin protection

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Eye glasses with side protection: EN 166

Body protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Anti-static clothing including shoes are recommended.

Remark

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	colourless
Odour	characteristic
pH at 20 °C	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	≥ 114 °C Source: 4-methylpentan-2-one
Flash point	18 °C
flammability	Highly flammable liquid and vapour.
Lower explosion limit at 20°C	0.8 Vol-% Source: reaction mass of ethylbenzene and xylene
Upper explosion limit at 20°C	13.7 Vol-% Source: 1-methoxy-2-propanol
Vapour pressure at 20°C	9.8 mbar
Relative vapour density	not applicable
Density at 20 °C	0.86 kg/l
Water solubility at 20°C	partially soluble
Partition coefficient: n-octanol/water	see section 12
Auto-ignition temperature	270 °C Source: 1-methoxy-2-propanol
Decomposition temperature	not determined
Kinematic viscosity at 40 °C	not determined
Dynamic viscosity at 20 °C	not determined
particle characteristics	not applicable

9.2 Other information

Form: liquid

Information with regard to physical hazard classes

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

strong Oxidising agents, strong alkalis

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if inhaled.

ATEmix: (dermal) 3,666.6667 mg/kg

ATEmix: (inhalative (vapours)) 16.9231 mg/L

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Overall assessment on CMR properties

Suspected of causing cancer.

STOT-single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache Dizziness fatigue amyosthenia Dizziness in serious cases: unconsciousness Solvents may cause some of the aforementioned effects through skin resorption. Splashing may cause eye irritation and reversible damage. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin.

11.2 Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

4-methylpentan-2-one

Acute (short-term) fish toxicity

LC50: (Danio rerio (zebrafish)): > 179 mg/L (96 h)
Method:OECD 203

reaction mass of ethylbenzene and xylene

LC50: (Oncorhynchus mykiss (Rainbow trout)): 2.6 mg/L (96 h)
Method:OECD 203

Acute (short-term) toxicity to algae and cyanobacteria

4-methylpentan-2-one

EC50 (Lemna gibba (swollen duckweed)): > 146 mg/L (168 h)

reaction mass of ethylbenzene and xylene

ErC50: (Raphidocelis subcapitata): 4.6 mg/L (72 h)
Method:OECD 201

Acute (short-term) toxicity to crustacea

4-methylpentan-2-one

EC50 (Daphnia magna (Big water flea)): > 200 mg/L (48 h)
Method:OECD 202

Chronic (long-term) fish toxicity

reaction mass of ethylbenzene and xylene

NOEC: (Oncorhynchus mykiss (Rainbow trout)): > 1.3 mg/L (56 d)

Chronic (long-term) toxicity to aquatic invertebrate

4-methylpentan-2-one

EC50 (Daphnia magna (Big water flea)): = 78 mg/L (21 d)

reaction mass of ethylbenzene and xylene

NOEC (Daphnia magna (Big water flea)): 1.17 mg/L (7 d)

Toxicity to other aquatic plants/organisms

NOEC (activated sludge of a predominantly industrial sewage): 16 mg/L (28 d)
Method:OECD 301F

12.2 Persistence and degradability

4-methylpentan-2-one

Biodegradation; (Activated sludge) = 83 % (28 h)

Method: OECD 301F

Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

* Partition coefficient n-octanol/water = 3.15 (reaction mass of ethylbenzene and xylene)

Partition coefficient n-octanol/water = 1.9 (4-methylpentan-2-one)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Waste codes/waste designations according to EWC/AVV

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Other disposal recommendations

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1 UN number or ID number

UN 1993

14.2 UN proper shipping name

Land transport (ADR/RID)

Flammable liquid, n.o.s. (4-methylpentan-2-one, 1-methoxy-2-propanol)

Sea transport (IMDG)

Flammable liquid, n.o.s. (contains 4-methylpentan-2-one, 1-methoxy-2-propanol)

Air transport (ICAO-TI / IATA-DGR)

Flammable liquid, n.o.s. (contains 4-methylpentan-2-one, 1-methoxy-2-propanol)

14.3 Transport hazard class(es)

Land transport (ADR/RID)	3
Sea transport (IMDG)	3
Air transport (ICAO-TI / IATA-DGR)	3

14.4 Packing group

Land transport (ADR/RID)	II
Sea transport (IMDG)	II
Air transport (ICAO-TI / IATA-DGR)	II

14.5 Environmental hazards

Land transport (ADR/RID)	not applicable
Sea transport (IMDG)	not applicable

14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

14.8 Additional information

Land transport (ADR/RID)

Tunnel restriction code: D/E

Limited quantity (LQ): 1 ltr

Hazard identification number (Kemler No.): 33

Sea transport (IMDG)

EmS-No.: F-E, S-E

Limited quantity (LQ): 1 ltr

Air transport (ICAO-TI / IATA-DGR)

Limited quantity (LQ): 1 Liter

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no.: 03, 40

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC value: 860 g/l

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Hazard categories / Named dangerous substances

P5c FLAMMABLE LIQUIDS

Quantity 1: 5,000t; Quantity 2: 50,000t

National regulations

Observe in addition any national regulations!

15.2 Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

REACH No.	Substance name	CAS No. EC No.
01-2119457435-35	1-methoxy-2-propanol	107-98-2 203-539-1
01-2119473980-30	4-methylpentan-2-one	108-10-1 203-550-1
01-2119488216-32	reaction mass of ethylbenzene and xylene	- 905-588-0

SECTION 16: Other information

List of relevant hazard statements and/or precautionary statements from sections 2 to 15

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2	On basis of test data.
Asp. Tox. 1	Calculation method.
Skin Irrit. 2	Calculation method.
Eye Irrit. 2	Calculation method.
Acute Tox. 4 inhalative	Calculation method.
STOT SE 3 Irritation to respiratory tract	Calculation method.
STOT SE 3 Narcotic effects	Calculation method.
Carc. 2	Calculation method.
Aquatic Chronic 3	Calculation method.

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL: Occupational Exposure Limit Value
BLV: Biological limit values
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging
CMR: Carcinogenic, Mutagenic and Reprotoxic
DIN: German Institute for Standardization / German industrial standard
DNEL: Derived No-Effect Level
EAKV: European Waste Catalogue Directive
EC: Effective Concentration
EC: European Community
EN: European Standard
EU/EEA: European Economic Area

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IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG Code: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

LC: Lethal Concentration

LD: Lethal Dose

MAK: Maximum concentration in the workplace air

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

OECD: Organisation for Economic Cooperation and Development

PBT: persistent, bioaccumulative, toxic

PNEC: Predicted No Effect Concentration

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

Indication of changes

* Data changed compared with the previous version.

replaces version: 2.0

replaces revision of: 3 Aug 2026

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.