

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.03.2024


Version number 5 (replaces version 4)

Revision: 09.10.2023


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

- 1.1 Product identifier
- Trade name: **KEMPERTEC AC M-Primer**
- UFI: NUD9-H0UC-R00V-7ATS
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture: Identified use: intended for professional use only!
Primer
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: KEMPER SYSTEM GmbH & Co. KG
Holländische Strasse 32-36
34246 Vellmar
Deutschland / Germany
Telefon: +49 (0)561 / 8295-0
Telefax: +49 (0)561 / 8295-5110
E-Mail: MSDS@KEMPER-SYSTEM.COM
- Further information obtainable from: research & development
- 1.4 Emergency telephone number: Medical Emergency information in case of poisoning:
Poison Information Center Mainz - 24 h - Phone: +49 (0) 6131 19240
(advisory service in German or English language)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
 - Classification according to Regulation (EC) No 1272/2008
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.
 - 2.2 Label elements
 - Labelling according to Regulation (EC) No 1272/2008
 - Hazard pictograms
- The product is classified and labelled according to the CLP regulation.
- 

GHS02



GHS07
- Signal word: Danger
 - Hazard-determining components of labelling: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight >700 - <1100)
methyl methacrylate
tetramethylene dimethacrylate
2-ethylhexyl acrylate
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[(2-(2-hydroxyethoxy)ethyl)](4-methylphenyl)amino]-
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
 - Hazard statements
 - Precautionary statements
- | | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P241 | Use explosion-proof [electrical/ventilating/lighting] equipment. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
- 2.3 Other hazards
 - Results of PBT and vPvB assessment
 - PBT: Not applicable.

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- vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- Description: Mixture of substances listed below with nonhazardous additions.
Mixture: consisting of the following components.

- Dangerous components:

CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight >700 - <1100) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 2082-81-7 EINECS: 218-218-1	tetramethylene dimethacrylate Skin Sens. 1B, H317	2.5-10%
CAS: 103-11-7 EINECS: 203-080-7	2-ethylhexyl acrylate Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	≥1-<2.5%
CAS: 8002-74-2 EINECS: 232-315-6	Paraffin waxes and Hydrocarbon waxes substance with a Community workplace exposure limit	0.5-2.5%
EC number: 911-490-9	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-<0.5%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General information:

Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Do not leave affected persons unattended.
Personal protection for the First Aider.
Take affected persons out of danger area and lay down.

- After inhalation:

Bring to fresh air
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.

- After skin contact:

Immediately wash with water and soap and rinse thoroughly.
Seek medical treatment in case of complaints.

- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Protect unharmed eye.

- After swallowing:

If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing agents:

Water with full jet

- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.
Nitrogen oxides (NOx)
Carbon monoxide (CO)

- 5.3 Advice for firefighters

- Protective equipment:

Do not inhale explosion gases or combustion gases.

- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Wear protective equipment. Keep unprotected persons away.
 - Ensure adequate ventilation
 - Keep away from ignition sources.
 - Wear protective clothing.
 - Avoid contact with skin and eyes
- **6.2 Environmental precautions:**
 - Inform respective authorities in case of seepage into water course or sewage system.
 - Prevent from spreading (e.g. by damming-in or oil barriers).
 - Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - Ensure adequate ventilation.
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 - Ensure good ventilation/exhaustion at the workplace.
 - Use only in well ventilated areas.
 - Keep receptacles tightly sealed.
 - Store in cool, dry place in tightly closed receptacles.
 - Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
 - Protect against electrostatic charges.
 - Keep ignition sources away - Do not smoke.
 - Use explosion-proof apparatus / fittings and spark-proof tools.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 - Store only in unopened original receptacles.
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Store away from water.
- **Further information about storage conditions:**
 - Store in dry conditions.
 - Protect from frost.
 - Store in cool, dry conditions in well sealed receptacles.
 - Recommended storage temperature: 5-30 °C
- **Storage class:**
 - 3
- **7.3 Specific end use(s)**
 - No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

80-62-6 methyl methacrylate

OEL	Short-term value: 100 ppm Long-term value: 50 ppm IOELV, Sens
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8002-74-2 Paraffin waxes and Hydrocarbon waxes

OEL	Short-term value: 6 mg/m³ Long-term value: 2 mg/m³
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- **Regulatory information** OEL: 2021 CoP for the Safety, Health and Welfare at Work
 - **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Appropriate engineering controls**
 - No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
 - The usual precautionary measures are to be adhered to when handling chemicals.
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing

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Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves

- **Respiratory protection:**

- **Hand protection**

Only use chemical-protective gloves with CE-labelling of category III.

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

- **Material of gloves**

Recommended materials:

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.5 mm

Penetration time (min.): < 480

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- **As protection from splashes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.1 mm

Penetration time (min.): < 10

- **Eye/face protection**



Tightly sealed goggles

- **Body protection:**

Protective work clothing

protective clothing (EN 13034)

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Colour:**

Colourless

- **Odour:**

Characteristic

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Undetermined.

- **Boiling point or initial boiling point and boiling range**

100 °C

- **Flammability**

Not applicable.

- **Lower and upper explosion limit**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

10 °C

- **Auto-ignition temperature:**

Not determined.

- **Decomposition temperature:**

Not determined.

- **pH**

Not determined.

- **Viscosity:**

- **Kinematic viscosity at 20 °C**

1,500 mm²/s

- **Dynamic:**

Not determined.

- **Solubility**

- **water:**

Not miscible or difficult to mix.

- **Partition coefficient n-octanol/water (log value)**

Not determined.

- **Density and/or relative density**

- **Density at 20 °C:**

1.03 g/cm³

- **Relative density**

Not determined.

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<p>- Vapour density</p> <p>- 9.2 Other information</p> <p>- Appearance:</p> <p>- Form:</p> <p>- Important information on protection of health and environment, and on safety.</p> <p>- Ignition temperature:</p> <p>- Explosive properties:</p> <p>- Solvent separation test:</p> <p>- VOC (EC)</p> <p>- Change in condition</p> <p>- Evaporation rate</p>	<p>Not determined.</p> <p>Fluid</p> <p>Product is not selfigniting.</p> <p>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</p> <p>4.00 %</p> <p>Not determined.</p>
<p>- Information with regard to physical hazard classes</p> <p>- Explosives</p> <p>- Flammable gases</p> <p>- Aerosols</p> <p>- Oxidising gases</p> <p>- Gases under pressure</p> <p>- Flammable liquids</p> <p>- Flammable solids</p> <p>- Self-reactive substances and mixtures</p> <p>- Pyrophoric liquids</p> <p>- Pyrophoric solids</p> <p>- Self-heating substances and mixtures</p> <p>- Substances and mixtures, which emit flammable gases in contact with water</p> <p>- Oxidising liquids</p> <p>- Oxidising solids</p> <p>- Organic peroxides</p> <p>- Corrosive to metals</p> <p>- Desensitised explosives</p>	<p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Highly flammable liquid and vapour.</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p>

SECTION 10: Stability and reactivity

- 10.1 Reactivity	No further relevant information available.
- 10.2 Chemical stability	
- Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions	Reacts with peroxides.
- 10.4 Conditions to avoid	No further relevant information available.
- 10.5 Incompatible materials:	No further relevant information available.
- 10.6 Hazardous decomposition products:	No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
 - Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight >700 - <1100)

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD Guideline 402 (Acute Dermal Toxicity))

80-62-6 methyl methacrylate

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	29.8 mg/l (rat)

2082-81-7 tetramethylene dimethacrylate

Oral	LD50	10,066 mg/kg (rat) (OECD 401)
Dermal	LD50	>3,000 mg/kg (rabbit)

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103-11-7 2-ethylhexyl acrylate

Oral	LD50	4,435 mg/kg (rat) (IUCLID)
Dermal	LD50	7,522 mg/kg (rabbit) (IUCLID)

8002-74-2 Paraffin waxes and Hydrocarbon waxes

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

Reaction mass of 2,2'-[[4-(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl][4-(4-methylphenyl)amino]-

Oral	LD50	619 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

- Endocrine disrupting properties

128-37-0 | 2,6-di-tert-butyl-p-cresol

List II

SECTION 12: Ecological information**- 12.1 Toxicity****- Aquatic toxicity:****25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight >700 - <1100)**

LC50	>100 mg/l /96 h (Oncorhynchus mykiss (Regenbogenforelle)) (OECD 203 (96 hr))
EC50	>100 mg/l /72 h (ALGAE - Grünalge) (OECD 201)
	>100 mg/l /48 h (Daphnia magna) (OECD 202 (48 hr))

80-62-6 methyl methacrylate

NOEC	37 mg/l (Daphnia magna) (21 days; OECD 202 Part 2, flow)
EC3	37 mg/l (Scenedesmus quadricauda) (DIN 38412 Part 9; 8d)
EC0	100 mg/l (Pseudomonas putida)
EC50	69 mg/l (Daphnia magna) (48 h; OECD 202)
LC 50	>79 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96 h; OECD 203)

2082-81-7 tetramethylene dimethacrylate

EC50	9.79 mg/l (DESMODESMUS SUBSPICATUS) (72h; OECD 201)
	32.5 mg/l (Idus melanotus) (48h; OECD 203)
NOEC	20 mg/l (Belechtschlamm)
EC10	4.35 mg/l (DESMODESMUS SUBSPICATUS) (72d; OECD 201)
	7.51 mg/l (Daphnia magna) (21d; OECD 211)

103-11-7 2-ethylhexyl acrylate

Inhalative	LC50/8h	1.19 mg/l (rat) (OECD 403)
	LC50/96 h	1.8 mg/l (Oncorhynchus mykiss (Regenbogenforelle))
	EC50	17 mg/l (Daphnia magna) (48h; IUCLID)
	EC50	>10,000 mg/l (Pseudomonas putida) (30 min.; IUCLID)
	IC50	44 mg/l (DESMODESMUS SUBSPICATUS) (72h, IUCLID)
	LC50	23 mg/l (Leuciscus idus (Goldorfe)) (48h; IUCLID)

8002-74-2 Paraffin waxes and Hydrocarbon waxes

LL 50	>100 mg/l (fish)
LE50	>10,000 mg/l (daphnia)
NOEL	>100 mg/l (ALGAE) (acute)
	>10 mg/l (daphnia) (long-term)

Reaction mass of 2,2'-[[4-(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl][4-(4-methylphenyl)amino]-

LC50/96 h	>100 mg/l (Cyprinus Carpio) (OECD 203 (96 hr))
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EC50	>100 mg/l (Scenedesmus subspicatus) (OECD 201; static)
EC50	48 mg/l (Daphnia magna) (OECD 202; part 1 static)
EC50	>100 mg/l (Cyprinus Carpio) (96h; OECD 203; ISO 7346; 92/69/CEE; C.1 static)
NOEC	>100 mg/l (Scenedesmus subspicatus) (OECD 201, static)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal according to official regulations

- European waste catalogue

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances
17 02 03	plastic

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1993
- **14.2 UN proper shipping name**
- **ADR** 1993 FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED)
- **IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED)

- 14.3 Transport hazard class(es)

- **ADR**
- 
- **Class** 3 (F1) Flammable liquids.
- **Label** 3

- IMDG, IATA

- 
- **Class** 3 Flammable liquids.
- **Label** 3

- **14.4 Packing group**
- **ADR, IMDG, IATA** II

- **14.5 Environmental hazards:**
- **Marine pollutant:** No

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<ul style="list-style-type: none"> - 14.6 Special precautions for user - Hazard identification number (Kemler code): - EMS Number: - Stowage Category 	<ul style="list-style-type: none"> Warning: Flammable liquids. 33 F-E,<u>S-E</u> A
<ul style="list-style-type: none"> - 14.7 Maritime transport in bulk according to IMO instruments Not applicable. 	
<ul style="list-style-type: none"> - Transport/Additional information: 	
<ul style="list-style-type: none"> - ADR - Limited quantities (LQ) - Excepted quantities (EQ) 	
<ul style="list-style-type: none"> - Transport category - Tunnel restriction code 	<ul style="list-style-type: none"> 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E
<ul style="list-style-type: none"> - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) 	
<ul style="list-style-type: none"> - UN "Model Regulation": 	<ul style="list-style-type: none"> 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED), 3, II

SECTION 15: Regulatory information

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

- Directive 2012/18/EU	
- Named dangerous substances - ANNEX I	None of the ingredients is listed.
- Seveso category	P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements	5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements	50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

- REGULATION (EU) 2019/1148

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

108-88-3 toluene	3
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- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

108-88-3 toluene	3
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- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

<ul style="list-style-type: none"> - Relevant phrases 	<ul style="list-style-type: none"> H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
<ul style="list-style-type: none"> - Department issuing SDS: 	<ul style="list-style-type: none"> research & development

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- Contact:	research & development
- Date of previous version:	13.12.2021
- Version number of previous version:	4
- Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- Sources	- www.echa.europa.eu - www.baua.de IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance: - www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp - www.dguv.de/ifa/gestis/gestis-dnel-liste
- * Data compared to the previous version altered.	