

SAFETY DATA SHEET

Version #: 01

Issue date: 20-January-2022

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

1.1. Product identifier

Trade name or designation of the mixture Tough resin

Registration number -

Synonyms None.

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

Identified uses 3D Printing

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name MCPPP Netherlands BV

Address Grasbeemd 19, 5705DE Helmond, The Netherlands

Telephone +31 (0)492 210 210 (Office hours Mo. - Fr. 8:30 - 17:00)

Contact person Product Compliance

e-mail product.compliance@m-chem.com

1.4. Emergency telephone number +31 (0)30 274 8888, only for the doctor

National Poison Information Center Utrecht, The Netherlands

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Skin sensitisation	Category 1A	H317 - May cause an allergic skin reaction.
Reproductive toxicity (fertility)	Category 2	H361f - Suspected of damaging fertility.
Specific target organ toxicity - repeated exposure	Category 2	H373 - May cause damage to organs through prolonged or repeated exposure.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.
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2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: (Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate, 2-hydroxyethyl acrylate, 4-(1-oxo-2-propenyl)-morpholine, Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, Exo-1,7,7-trimethylbicyclo[2,2,1]hept-2-yl acrylate, Hexamethylene diacrylate

Hazard pictograms



Signal word Danger

Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P260	Do not breathe mist/vapours.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE/doctor.
P101	If medical advice is needed, have product container or label at hand.

Storage

P405	Store locked up.
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Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
Endocrine disruption potential: Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (CAS no. 75980-60-8)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
4-(1-oxo-2-propenyl)-morpholine	20 - < 30	5117-12-4 418-140-1	-	613-222-00-3	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg), Eye Dam. 1;H318, Skin Sens. 1;H317, STOT RE 2;H373					
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5 - < 10	5888-33-5 227-561-6	-	607-133-00-9	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317, STOT SE 3;H335, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Specific Concentration Limits: STOT SE 3;H335: C >= 10 %					
(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	3 - < 5	42594-17-2 255-901-3	-	607-133-00-9	
Classification: Skin Sens. 1B;H317, Aquatic Chronic 2;H411					
Hexamethylene diacrylate	3 - < 5	13048-33-4 235-921-9	-	607-109-00-8	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1A;H317, Aquatic Acute 1;H400, Aquatic Chronic 3;H412					
Specific Concentration Limits: STOT SE 3;H335: C >= 10 %					
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3 - < 5	75980-60-8 278-355-8	-	015-203-00-X	
Classification: Repr. 2;H361f					
oxepan-2-one	1 - < 3	502-44-3 207-938-1	-	-	
Classification: Eye Irrit. 2;H319					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2-hydroxyethyl acrylate	< 1	818-61-1 212-454-9	-	607-072-00-8	
Classification: Acute Tox. 3;H311;(ATE: 300 mg/kg), Skin Corr. 1B;H314, Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 3;H412					D
Specific Concentration Limits: Skin Sens. 1;H317: C >= 0.2 %					

Other components below reportable levels 40 - < 50

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop. Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory tract irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Dry chemical powder. Carbon dioxide (CO₂). Alcohol resistant foam.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed. When burned, product may form smoke and toxic fumes, gases or vapors, including carbon oxides.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes.

Special fire fighting procedures Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

For emergency responders Keep unnecessary personnel away. Avoid breathing mist/vapours. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Do not breathe mist/vapours. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Keep away from heat and sources of ignition. Avoid formation of dust and aerosols.

7.2. Conditions for safe storage, including any incompatibilities Store locked up. Should be stored in a cool, dry, well-ventilated area in tightly sealed containers and should be protected from physical damage and heat and should be stored separately from ozone. Keep out of the reach of children. Keep only in the original container. Store away from strong oxidizers. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Denmark. Exposure Limit Values Components

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	TLV	5 mg/m ³
		1 ppm

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended Components

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	STEL	10 mg/m ³
		2 ppm
	TWA	5 mg/m ³ 1 ppm

Iceland. OELs. Regulation 154/1999 on occupational exposure limits Components

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	TWA	5 mg/m ³
		1 ppm

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment Components

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	TWA	0,5 mg/m ³

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements Components

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	STEL	10 mg/m ³
		2 ppm
	TWA	5 mg/m ³ 1 ppm

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	STEL	10 mg/m ³
		2 ppm
	TWA	5 mg/m ³
		1 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines**Denmark GV: Skin designation**

2-hydroxyethyl acrylate (CAS 818-61-1) Can be absorbed through the skin.

Estonia OELs: Skin designation

2-hydroxyethyl acrylate (CAS 818-61-1) Can be absorbed through the skin.

Iceland OELs: Skin designation

2-hydroxyethyl acrylate (CAS 818-61-1) Can be absorbed through the skin.

Lithuania OELs: Skin designation

2-hydroxyethyl acrylate (CAS 818-61-1) Can be absorbed through the skin.

Sweden Threshold Limit Values: Skin designation

2-hydroxyethyl acrylate (CAS 818-61-1) Can be absorbed through the skin.

8.2. Exposure controls**Appropriate engineering controls**

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment**General information**

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Remove contaminated clothing. Pregnant women or women of child-bearing age should not be exposed to this product.

Eye/face protection

Wear tight-fitting goggles or face shield.

Skin protection**- Hand protection**

Wear appropriate chemical resistant gloves. Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Recommended thickness of the material: 0.7 mm.

- Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

In case of brief exposures or short-term exposure to low vapour concentrations, use respirators with an organic vapour filter. Select a filter suitable for organic gases and vapours meeting (EU Standard) EN14387. full or half respiratory mask with ABEK-P2 or ABEK-P3 filter

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Environmental exposure controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Physical state**

Liquid.

Form

Liquid.

Colour

Color depends on product specification

Odour	Slight.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	Not available.
Flammability (solid, gas)	Not applicable.
Flash point	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Particle characteristics	Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes No relevant additional information available.

9.2.2. Other safety characteristics

Explosive properties Not explosive.

Oxidising properties Not oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Harmful if swallowed.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

11.1. Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components	Species	Test Results
4-(1-oxo-2-propenyl)-morpholine (CAS 5117-12-4)		
LD50	Rat	588 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory sensitisation	Based on available data, the classification criteria are not met.	
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.
Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)	
	Not listed.
Reproductive toxicity	Suspected of damaging fertility.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Based on available data, the classification criteria are not met.
Mixture versus substance information	No information available.

11.2. Information on other hazards

Endocrine disrupting properties	Endocrine disruption potential: Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (CAS no. 75980-60-8)
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity	Toxic to aquatic life with long lasting effects.
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
12.3. Bioaccumulative potential	
Partition coefficient n-octanol/water (log Kow)	
2-hydroxyethyl acrylate	-0,21
Hexamethylene diacrylate	3,08
oxepan-2-one	1,215
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. Not available.
12.6. Endocrine disrupting properties	Endocrine disruption potential: Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (CAS no. 75980-60-8)
12.7. Other adverse effects	No information is available about the potential of this material to produce adverse environmental effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Do not discharge into drains, water courses or onto the ground.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, (Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate)
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Hazard No. (ADR)	90
Tunnel restriction code	E

14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions Limited quantities (LQ): 5L.
for user

RID

14.1. UN number UN3082
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate,
(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate)
14.3. Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.
for user

ADN

14.1. UN number UN3082
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate,
(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate)
14.3. Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.
for user

IATA

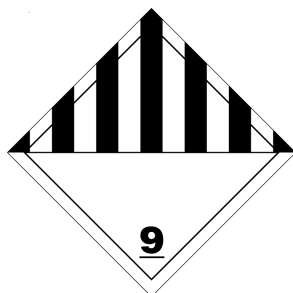
14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. UN number UN3082
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate,
(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate), MARINE POLLUTANT
14.3. Transport hazard class(es)
Class 9
Subsidiary risk -
14.4. Packing group III
14.5. Environmental hazards
Marine pollutant Yes
EmS F-A, S-F
14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.
for user

14.7. Maritime transport in bulk according to IMO instruments Not established.

ADN; ADR; IMDG; RID



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU, " Seveso III" category: E2

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate (CAS 42594-17-2)

2-hydroxyethyl acrylate (CAS 818-61-1)

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (CAS 5888-33-5)

Hexamethylene diacrylate (CAS 13048-33-4)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

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.
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative and toxic.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
vPvB: Very persistent and very bioaccumulative.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
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.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Revision information

None.

Training information

Follow training instructions when handling this material.

Disclaimer

This safety data sheet (SDS) is issued based on the latest reference, data etc currently available. The information in this SDS has been carefully assessed, but no guarantee is given for its accuracy. We cannot anticipate all conditions under which this product may be used. It is the user's responsibility to take appropriate safety measures for handling.