

TENAX SPA

Revision nr.5 Dated 8/3/2023 Printed on 9/20/2023 Pagen. 1 / 15 Replaced revision:4 (Dated 12/17/2018)

STRONGEDGE PARTE A XPRESS

Safety Data Sheet

According to U.S.A. Federal Hazcom 2012



2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement Reproductive toxicity, category 2 Serious eye damage, category 1 Skin irritation, category 2 Skin sensitization, category 1 Hazard pictograms:



Signal words:

Danger

Hazard statements: H361 H318

Suspected of damaging fertility or the unborn child. Causes serious eye damage.

Suspected of damaging fertility or the unborn child. Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction.

@EPY 11.5.1 - SDS 1004.14

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2. Hazards identification ... / >>

Precautionary statements: Prevention:	May cause an allergic skin reaction.		
,			
P261	Avoid breathing dust / fume / gas / mist / va		
P201 P202			
P202	Do not handle until all safety precautions have been read and understood.		
P280	Obtain special instructions before use. Wear protective gloves/ protective clothing / eye protection / face protection.		
P264	Wash the hands thoroughly after handling.		
P272	Contaminated work clothing should not be	allowed out of the workplace	
Response:			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for	r several minutes. Remove contact lenses, if present and easy to	
	do. Continue rinsing.		
P310	Immediately call a POISON CENTER / doc	tor if you feel unwell.	
P302+P352	IF ON SKIN: wash with plenty of water /		
P362+P364	Take off contaminated clothing and wash it		
P363	Wash contaminated clothing before reuse.		
Storage:	· ·		
P405	Store locked up.		
Disposal:			
P501	Dispose of contents / container according to	o applicable law.	
Environmental classification	as for Reg. (EC) 1272/2008 (CLP):		
The product is classified as	hazardous for environment pursuant to the prov	visions set forth in EC Regulation 1272/2008 (CLP).	
Classification and Hazard S			
Hazardous to the aquation	c environment, chronic toxicity, category 2	Toxic to aquatic life with long lasting effects.	
Hazard pictograms:			
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NV.			
\sim			
Hazard statements:			
	Toxic to aquatic life with long lasting effects		
Hazard statements: H411	Toxic to aquatic life with long lasting effects	S.	
H411	Toxic to aquatic life with long lasting effects	5.	
	Toxic to aquatic life with long lasting effects	5.	

Prevention: P273 Response: P391 Storage:

Disposal: **P501** ---

Dispose of contents / container according to applicable law.

Additional hazards

Information not available

3. Composition/information on ingredients

Collect spillage.

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3. Composition/information on ingredients / >>

3.2. Mixtures

Contains:			
Identification		x = Conc. %	Classification:
BIS-[4-(2,3-EP	OXIPROPOXI)PHEN	IYL]PROPANE	
INDEX	603-073-00-2	85 ≤ x < 87	Eye irritation, category 2 H319, Skin irritation, category 2 H315, Skin sensitization, category 1B H317, Hazardous to the aquatic environment, chronic toxicity, category 2 H411
EC	216-823-5		
CAS	1675-54-3		
REACH Reg.	01-2119456619-26		
2-PROPENOIC	CACID, REACTION	PRODUCTS WITH PEN	TAerythritol
		7≤x< 8	Acute toxicity, category 4 H302, Serious eye damage, category 1 H318, Skin irritation, category 2 H315, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, chronic toxicity, category 2 H411
EC	629-850-6		
CAS	1245638-61-2		
REACH Reg.	01-2119490003-49-	XXXX	
	IOL DIACRYLATE		
INDEX	607-109-00-8	4.5 ≤ x < 5	Eye irritation, category 2 H319, Skin irritation, category 2 H315, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=1, Hazardous to the aquatic environment, chronic toxicity, category 2 H411
EC	235-921-9		
CAS	13048-33-4		
REACH Reg.	01-2119484737-22		
4-NONYLPHEI	NOL, BRANCHED		
INDEX	601-053-00-8	1≤x< 1.5	Reproductive toxicity, category 2 H361, Acute toxicity, category 4 H302, Skin corrosion, category 1B H314, Serious eye damage, category 1 H318, Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=10, Hazardous to the aquatic environment, chronic toxicity, category 1 H410 M=10
EC	284-325-5		
CAS	84852-15-3		
REACH Reg.	01-2119510715-45		

* There is a batch to batch variation.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

4. First-aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

5. Fire-fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT



5. Fire-fighting measures ... / >>

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

Combustion products: mainly COx.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAerythritol Packing material: Recommended: Phenol coated carbon steel enamelled drums, Plastic drums To be avoided: copper, iron

7.3. Specific end use(s)

Information not available



8. Exposure controls/personal protection

8.1. Control parameters

Information not available

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations. HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (OSHA 29 CFR 1910.138): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing. EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

HAND PROTECTION: Protect hands with work gloves for protection from chemical agents in nitrile or fluoroelastomer (EN 374-1: 2016) at least type B or higher based on the risk assessment carried out by the company. Breakthrough time> 480 minutes. Material thickness: NITRILE

short contact> 0.38 mm prolonged contact> 0.55 mm FLUOROELASTOMER short contact> 0.50 mm prolonged contact> 1.50 mm

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance Colour Odour Odour threshold pH	Value liquid colourless characteristic not available not available	Information Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)
Melting point / freezing point Initial boiling point Boiling range Flash point Evaporation rate Flammability Lower inflammability limit Upper inflammability limit Lower explosive limit Upper explosive limit	not available not available not available > 93 °C not available not available not available not available not available not available not available	(199,4 °F)



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9. Physical and chemical properties ... / >>

Vapour pressure	not available	
Vapour density	not available	
Relative density	1.1 g/cm3	
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
Viscosity	not available	
Explosive properties	not available	
Oxidising properties	not available	
9.2. Other information		
VOC :	0,15 % - 1,65 g/litre	
	•	

10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

1,6-HEXANEDIOL DIACRYLATE Polymerization may occur.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE Avoid contact with: acids,bases,oxidising substances. Avoid unintentional contact with amines.

2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAerythritol Acids, Bases, Oxidizing agents, Reducing agents

10.6. Hazardous decomposition products

BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE

The decomposition products depend on the temperature, the available air and the presence of other substances. An uncontrolled exothermic reaction of epoxy resins liberates phenolic derivatives, carbon monoxide and water.

11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

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11. Toxicological information ... / >>

Interactive effects

Information not available

ACUTE TOXICITY

4-NONYLPHENOL, BRANCHED LD50 (Oral): LD50 (Dermal):

1620 mg/kg rat 2140 mg/kg rabbit

1,6-HEXANEDIOL DIACRYLATE LD50 (Oral): LD50 (Dermal):

> 5000 mg/kg 3650 mg/kg

BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE LD50 (Oral): LD50 (Dermal):

11400 mg/kg Ratto 2000 mg/kg Ratto

2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAerythritol LD50 (Oral): 540 mg/kg LD50 (Dermal): 2000 mg/kg

2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAerythritol LD50, oral, rat: OECD Test Guideline 401 LD50, dermal, rabbit: OECD Test Guideline 402)

SKIN CORROSION / IRRITATION

Causes skin irritation

1,6-HEXANEDIOL DIACRYLATE OCSE test method no. 404: Acute Skin Corrosion/Irritation Rabbits Route of exposure Dermal Effective dose 0.5 mL Exposure time 4 hours Results: Irritating edema

2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAerythritol Irritating to skin (OECD TG 404, Rabbit)

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

1,6-HEXANEDIOL DIACRYLATE OCSE test method no. 405: Acute Eye Corrosion/Irritation Rabbits Route of Exposure: Eyes Effective dose: 0.1 mL Exposure time: 24 hours Results: Irritating

2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAerythritol Severe eye irritation (OECD Test Guideline 405, Rabbit)

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Skin sensitization

1,6-HEXANEDIOL DIACRYLATE OCSE test method no. 406: Skin Sensitization Guinea pig Route of Exposure: Dermal Results: Sensitization

GERM CELL MUTAGENICITY



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11. Toxicological information ... / >>

Does not meet the classification criteria for this hazard class

1,6-HEXANEDIOL DIACRYLATE OCSE test method no. 471: Bacterial Reverse Mutation Test In vitro Results: Negative Method OCSE Test No. 474: Mammalian Erythrocyte Micronucleus Test live

Results: Negative

2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAerythritol In vitro Ames test in vitro: Inactive (Method: OECD Guideline 471) In vitro gene mutation test in mammalian cells: Inactive (Method: OECD Guideline 476)

live In vivo mouse micronucleus test: Inactive (Method: OECD Guideline 474) In vivo Mammalian Comet Alkaline Test: Inactive (Method: OECD Guideline 489)

CARCINOGENICITY

Does not meet the classification criteria for this hazard class Carcinogenicity Assessment: 1675-54-3 BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE IARC:3

REPRODUCTIVE TOXICITY

Suspected of damaging fertility or the unborn child

1,6-HEXANEDIOL DIACRYLATE OCSE test method no. 422: Repeated Dose Toxicity Study Combined with the Rat Code Reproduction/Developmental Toxicity Screening Test NOAEL results (highest concentration of a substance at which no adverse effects are observed) 250 mg/kg bw/day

OCSE test method no. 414: Prenatal Developmental Toxicity Study Rats NOAEL results (highest concentration of a substance at which no adverse effects are observed) 750 mg/kg bw/day

Adverse effects on sexual function and fertility

2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAerythritol Absence of toxic effects on fertility NOAEL (Fertility): 200 mg/kg bw/day (Method: OECD Guideline 422, Rat, Oral) NOAEL (Parental toxicity): 75 mg/kg bw/day

Adverse effects on development of the offspring 2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAerythritol

(Method: OECD Guideline 414, Oral) Absence of toxic effects on the development of the fetus NOAEL (Developmental Toxicity): 75 mg/kg bw/day NOAEL (Maternal toxicity): 75 mg/kg bw/day (Rabbit) Toxic effects on the development of the fetus at maternally toxic doses NOAEL (Developmental Toxicity): < 10 mg/kg bw/day NOAEL (Maternal toxicity): < 10 mg/kg bw/day (Rat)

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class



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11. Toxicological information ... / >>

1,6-HEXANEDIOL DIACRYLATE
OCSE test method no. 422: Repeated Dose Toxicity Study Combined with Reproductive/Developmental Toxicity Screening Test Rats
Route of exposure: Oral route
NOAEL results (highest concentration of a substance at which no adverse effects are observed)
250 mg/kg bw/day
2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAerythritol
Oral: No specific toxic effects noted

NOAEL= 75 mg/kg, LOAEL= 200 mg/kg (Method: OECD Guideline 422, Rat, 4 Weeks) Local irritation, NOAEL= 25 mg/kg dermal route: No undesirable systemic effects have been observed. NOAEL= 12 mg/kg (Method: OECD Test Guideline 411, Rat, 3 months) Local irritation, NOAEL= 0.75 mg/kg

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAerythritol LC50, 96h: 3.2 mg/l (Method: OECD Test Guideline 203) EC50, 48h: 13 mg/l (Method: OECD TG 202)

4-NONYLPHENOL, BRANCHED

LC50 - for Fish	0.017 mg/l/96h marine water fish
EC50 - for Crustacea	0.051 mg/l/48h marine invertebrates
EC50 - for Algae / Aquatic Plants	0.027 mg/l/72h marine water algae
Chronic NOEC for Fish	0.00046 mg/l marine water fish
Chronic NOEC for Crustacea	0.00946 mg/l marine invertebrates
Chronic NOEC for Algae / Aquatic Plants	0.5 mg/l marine water algae
1,6-HEXANEDIOL DIACRYLATE	
LC50 - for Fish	0.38 mg/l/96h
EC50 - for Crustacea	2.7 mg/l/48h
EC50 - for Algae / Aquatic Plants	2.33 mg/l/72h
Chronic NOEC for Fish	0.072 mg/l
Chronic NOEC for Crustacea	0.14 mg/l
Chronic NOEC for Algae / Aquatic Plants	0.5 mg/l
BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE	
LC50 - for Fish	1.3 mg/l/96h
EC50 - for Crustacea	2.1 mg/l/48h Dafnia
EC50 - for Algae / Aquatic Plants	> 11 mg/l/72h
Chronic NOEC for Crustacea	0.3 mg/l Dafnia



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12. Ecological information ... / >>

	3.2 mg/l/96h
LC50 - for Fish	,
EC50 - for Crustacea	13 mg/l/48h
.2. Persistence and degradability	
1,6-HEXANEDIOL DIACRYLATE Method: OECD Test No. 310: Ready Biod Exposure time: 28 days Value: Biodegradation 60 - 70% Results: Readily biodegradable	degradability - CO2 in Sealed Vessels (Headspace Test)
BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PI Significant hydrolysis: 82% elimination in	
2-PROPENOIC ACID, REACTION PROE Not immediately biodegradable: 50% after	
4-NONYLPHENOL, BRANCHED Rapidly degradable	
1,6-HEXANEDIOL DIACRYLATE	
Solubility in water Rapidly degradable	343 mg/l
BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PI NOT rapidly degradable	ROPANE
2-PROPENOIC ACID, REACTION PROE NOT rapidly degradable	DUCTS WITH PENTAerythritol
.3. Bioaccumulative potential	
4-NONYLPHENOL, BRANCHED	
Partition coefficient: n-octanol/water	5.4
BCF	> 260
1,6-HEXANEDIOL DIACRYLATE	
Partition coefficient: n-octanol/water	2.81
2-PROPENOIC ACID, REACTION PROE	DUCTS WITH PENTAerythritol
Partition coefficient: n-octanol/water	3.11
.4. Mobility in soil	
4-NONYLPHENOL, BRANCHED	> 22
4-NONYLPHENOL, BRANCHED Partition coefficient: soil/water	
Partition coefficient: soil/water	2.1

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12. Ecological information ... / >>

12.6. Other adverse effects

Information not available

13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 3082

ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.
IMDC:	In accordance with Section 2.10.2.7 of IMDC Code, this product when is packed in recenterlas of a capacity \leq 5Kg or

- IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.
- IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE; 2-PROPENOIC ACID, REACTION PRODUCTS WITH
	PENTAerythritol)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE; 2-PROPENOIC ACID, REACTION PRODUCTS WITH
	PENTAerythritol)
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE; 2-PROPENOIC ACID, REACTION PRODUCTS WITH
	PENTAerythritol)

14.3. Transport hazard class(es)

ADR / RID:	Class: 9	Label: 9	
IMDG:	Class: 9	Label: 9	
IATA:	Class: 9	Label: 9	

14.4. Packing group

ADR / RID, IMDG, IATA: III

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14. Transport information ... / >>

14.5. Environmental hazards

ADR / RID:	Environmentally Hazardous	
IMDG:	Marine Pollutant	
IATA:	Environmentally Hazardous	

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90 Special provision: -	Limited Quantities: 5 L	Tunnel restriction code: (-)
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Passengers:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	

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

Information not relevant

15. Regulatory information

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

U.S. Federal Regulations

TSCA:

All components of this product are listed on US Toxic Substances Control Act (TSCA) Inventory or are exempt from the listing / notification requirements.

Clean Air Act Section 112(b): No component(s) listed.

Clean Air Act Section 602 Class I Substances: No component(s) listed.

Clean Air Act Section 602 Class II Substances: No component(s) listed.

Clean Water Act – Priority Pollutants: No component(s) listed.

Clean Water Act – Toxic Pollutants: No component(s) listed.

DEA List I Chemicals (Precursor Chemicals): No component(s) listed.

DEA List II Chemicals (Essential Chemicals): No component(s) listed.

EPA List of Lists: 313 Category Code: No component(s) listed.

EPCRA 302 EHS TPQ: No component(s) listed.

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15. Regulatory information ... / >>

EPCRA 304 EHS RQ: No component(s) listed.

CERCLA RQ: No component(s) listed.

EPCRA 313 TRI: No component(s) listed.

RCRA Code: No component(s) listed.

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations

Massachussetts: No component(s) listed.

Minnesota:

13048-33-4 1,6-HEXANEDIOL DIACRYLATE

New Jersey: No component(s) listed.

New York: No component(s) listed.

Pennsylvania: No component(s) listed.

California: No component(s) listed.

Proposition 65: This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

International Regulations Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: 4-NONYLPHENOL, BRANCHED - (NONYLPHENOLS)

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H361	Suspected of damaging fertility or the unborn child.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)

- CAS: Chemical Abstract Service Number

- CE50: Effective concentration (required to induce a 50% effect)



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16. Other information ... / >>

- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: Regulation (EC) 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REACH: Regulation (EC) 1907/2006
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.



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16. Other information ... / >>

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 05 / 07 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16. ΕN