

**Safety Data Sheet**

According to U.S.A. Federal Hazcom 2012

**1. Identification**

**1.1. Product identifier**

Code: **STRONGEDGE45B**  
Product name: **STRONG EDGE 45 PARTE B**

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

Intended use: **mastic part B**

Identified Uses	Industrial	Professional	Consumer
<b>ADHESIVE SYSTEM/TREATMENT FOR STONE SECTOR</b>	✓	✓	-

**1.3. Details of the supplier of the safety data sheet**

Name: **TENAX SPA**  
Full address: **Via I Maggio, 226**  
District and Country: **37020 Volargne (VR) Italy**  
Tel: **+39 045 6887593**  
Fax: **+39 045 6862456**

e-mail address of the competent person responsible for the Safety Data Sheet: **msds@tenax.it**

Supplier: **Tenax Usa**  
**7606 Whitehall Executive Center Drive Suite 400, 28273 Charlotte NC, US**  
Tel. 001 7045831173 - Fax 001 7045833166  
**info@tenaxusa.com**

**1.4. Emergency telephone number**

For urgent inquiries refer to: **Infotrac**  
**US and Canada: 1-800-535-5053**  
**Int'l: 1-352-323-3500**  
**info@infotrac.net**

**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 1B  
 Acute toxicity, category 4  
 Skin corrosion, category 1  
 Serious eye damage, category 1  
 Skin sensitization, category 1A

May damage fertility or the unborn child.  
 Harmful if swallowed.  
 Causes severe skin burns and eye damage.  
 Causes serious eye damage.  
 May cause an allergic skin reaction.

Hazard pictograms:



Signal words: **Danger**

Hazard statements:  
**H360** May damage fertility or the unborn child.

### 2. Hazards identification ... / >>

**H302** Harmful if swallowed.  
**H314** Causes severe skin burns and eye damage.  
**H317** May cause an allergic skin reaction.

Precautionary statements:

Prevention:

**P260** Do not breathe dust / fume / gas / mist / vapours / spray.  
**P202** Do not handle until all safety precautions have been read and understood.  
**P201** Obtain special instructions before use.  
**P280** Wear protective gloves/ protective clothing / eye protection / face protection.  
**P270** Do not eat, drink or smoke when using this product.  
**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 several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.  
**P310** Immediately call a POISON CENTER / doctor if you feel unwell.  
**P304+P340** IF INHALED: remove person to fresh air and keep comfortable for breathing.  
**P330** Rinse mouth.  
**P302+P352** IF ON SKIN: wash with plenty of water / . . .  
**P301+P312** IF SWALLOWED: Call a POISON CENTER / doctor / . . . / if you feel unwell.  
**P363** Wash contaminated clothing before reuse.

Storage:

**P405** Store locked up.

Disposal:

**P501** Dispose of contents / container according to applicable law.

#### 2.2. Other hazards

Environmental classification as for Reg. (EC) 1272/2008 (CLP):

The product is classified as hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

Classification and Hazard Statement

Hazardous to the aquatic environment, acute toxicity, category 1      Very toxic to aquatic life.  
Hazardous to the aquatic environment, chronic toxicity, category 1      Very toxic to aquatic life with long lasting effects.

Hazard pictograms:



Signal words:

Warning

Hazard statements:

**H400** Very toxic to aquatic life.  
**H410** Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

**P273** Avoid release to the environment.

Response:

**P391** Collect spillage.

Storage:

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Disposal:

**P501** Dispose of contents / container according to applicable law.

Additional hazards

Information not available

### 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification:
<b>1,3-BIS(AMINOMETHYL)CYCLOHEXANE</b>	37 ≤ x < 39	<b>Acute toxicity, category 4 H302, Acute toxicity, category 4 H312, Skin corrosion, category 1A H314, Serious eye damage, category 1 H318, Hazardous to the aquatic environment, chronic toxicity, category 3 H412</b>
EC 219-941-5		
CAS 2579-20-6		
REACH Reg. 01-2119543741-41		
<b>BENZYL ALCOHOL</b>		
INDEX 603-057-00-5	14.5 ≤ x < 15.5	<b>Acute toxicity, category 4 H302, Acute toxicity, category 4 H332</b>
EC 202-859-9		
CAS 100-51-6		
REACH Reg. 01-2119492630-38		
<b>4-NONYLPHENOL, BRANCHED</b>		
INDEX 601-053-00-8	13.5 ≤ x < 14.5	<b>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</b>
EC 284-325-5		
CAS 84852-15-3		
REACH Reg. 01-2119510715-45		
<b>4,4'-ISOPROPYLIDENEDIPHENOL</b>		
INDEX 604-030-00-0	8.5 ≤ x < 9.5	<b>Reproductive toxicity, category 1B H360, Serious eye damage, category 1 H318, Specific target organ toxicity - single exposure, category 3 H335, 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 1 H410 M=10</b>
EC 201-245-8		
CAS 80-05-7		
REACH Reg. 01-2119457856-23		
<b>3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE</b>		
INDEX 612-067-00-9	1.5 ≤ x < 2	<b>Acute toxicity, category 4 H302, Skin corrosion, category 1B H314, Serious eye damage, category 1 H318, Skin sensitization, category 1A H317, Hazardous to the aquatic environment, chronic toxicity, category 3 H412</b>
EC 220-666-8		
CAS 2855-13-2		
REACH Reg. 01-2119514687-32		
<b>N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE</b>		
	0.4 ≤ x < 0.7	<b>Serious eye damage, category 1 H318, Specific target organ toxicity - single exposure, category 3 H335, Skin sensitization, category 1 H317</b>
EC 217-164-6		
CAS 1760-24-3		
REACH Reg. 01-2119970215-39		
<b>TRIS (4-NONYLPHENOL, BRANCHED) PHOSPHITE</b>		
INDEX 015-202-00-4	0.4 ≤ x < 0.7	<b>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 1 H410 M=1</b>
EC 247-759-6		
CAS 26523-78-4		
REACH Reg. 01-2119520601-54-XXXX		

\* 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

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 and NOx.

### 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. Accidental release measures ... / >>

#### 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.

#### 7.3. Specific end use(s)

Information not available

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory References:

EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

#### 4,4'-ISOPROPYLIDENEDIPHENOL

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	2				INHAL

#### Siloxanes and Silicones, di-Me, reaction products with silica

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OSHA-PEL	USA	15				INHAL
OSHA-PEL	USA	5				RESP
TLV-ACGIH	-	10				INHAL
TLV-ACGIH	-	3				RESP

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

#### 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

### 8. Exposure controls/personal protection ... / >>

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	Value	Information
Appearance	viscous liquid	
Colour	transparent	
Odour	characteristic	
Odour threshold	not available	
pH	8-10	
Melting point / freezing point	not available	
Initial boiling point	not available	
Boiling range	not available	
Flash point	> 93 °C	(199,4 °F)
Evaporation rate	not available	
Flammability	not available	
Lower inflammability limit	not available	
Upper inflammability limit	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Vapour pressure	not available	
Vapour density	not available	
Relative density	1 g/cm <sup>3</sup>	
Solubility	partially soluble in water	
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 : 14,53 % - 145,31 g/litre

### 10. Stability and reactivity

#### 10.1. Reactivity

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

**BENZYL ALCOHOL**

Decomposes at temperatures above 870°C/1598°F. Possibility of explosion.

#### 10.2. Chemical stability

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

**10. Stability and reactivity** ... / >>

**10.3. Possibility of hazardous reactions**

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

**BENZYL ALCOHOL**

May react dangerously with: hydrobromic acid, iron, oxidising agents, sulphuric acid. Risk of explosion on contact with: phosphorus trichloride.

**3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

May react dangerously with: strong oxidising agents, concentrated inorganic acids.

**10.4. Conditions to avoid**

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

**1,3-BIS(AMINOMETHYL)CYCLOHEXANE**

Avoid exposure to: sources of heat, naked flames, overheated surfaces, ignition sources.

**BENZYL ALCOHOL**

Avoid exposure to: air, sources of heat, naked flames.

**3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

Avoid contact with: strong acids, strong oxidants.

**10.5. Incompatible materials**

**1,3-BIS(AMINOMETHYL)CYCLOHEXANE**

acids, reducing agents, oxidising agents.

**BENZYL ALCOHOL**

Incompatible with: sulphuric acid, oxidising substances, aluminium.

**10.6. Hazardous decomposition products**

Information not available

**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

Interactive effects

Information not available

ACUTE TOXICITY

**1,3-BIS(AMINOMETHYL)CYCLOHEXANE**

LD50 (Oral): 700 mg/kg ratto  
LD50 (Dermal): 1700 mg/kg coniglio

**4-NONYLPHENOL, BRANCHED**

LD50 (Oral): 1620 mg/kg rat  
LD50 (Dermal): 2140 mg/kg rabbit

**BENZYL ALCOHOL**

LD50 (Oral): 1230 mg/kg Rat  
LD50 (Dermal): 2000 mg/kg Rabbit  
LC50 (Inhalation vapours): > 4.1 mg/l/4h Rat

### 11. Toxicological information ... / >>

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE  
 LD50 (Oral): 1030 mg/kg Ratto  
 LD50 (Dermal): > 2000 mg/kg Ratto  
 LC50 (Inhalation mists/powders): > 5.01 mg/l/4h Ratto

4,4'-ISOPROPYLIDENEDIPHENOL  
 LD50 (Oral): 5000 mg/kg  
 LD50 (Dermal): 3000 mg/kg Rabbit

TRIS (4-NONYLPHENOL, BRANCHED) PHOSPHITE  
 LD50 (Oral): > 2000 mg/kg ratto  
 LD50 (Dermal): > 2000 mg/kg coniglio

#### SKIN CORROSION / IRRITATION

Corrosive for the skin

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Carcinogenicity Assessment:  
 7631-86-9 AMORPHOUS SILICATE HYDRATE  
 IARC:3

#### REPRODUCTIVE TOXICITY

May damage fertility or the unborn child

#### 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

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

### 12. Ecological information

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

#### 12.1. Toxicity

1,3-BIS(AMINOMETHYL)CYCLOHEXANE

LC50 - for Fish 130 mg/l/96h leuciscus idus

EC50 - for Crustacea 65.4 mg/l/48h daphnia magna

EC50 - for Algae / Aquatic Plants 90 mg/l/72h pseudomonas putida

### 12. Ecological information ... / >>

Chronic NOEC for Algae / Aquatic Plants	14.4 mg/l Pseudokirchneriella subcapitata
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
BENZYL ALCOHOL	
LC50 - for Fish	460 mg/l/96h Pimephales promelas
EC50 - for Crustacea	230 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	770 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Crustacea	51 mg/l Daphnia magna
3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE	
LC50 - for Fish	110 mg/l/96h Leuciscus idus
EC50 - for Crustacea	23 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 50 mg/l/72h Scenedesmus subspicatus
EC10 for Algae / Aquatic Plants	11.2 mg/l/72h Scenedesmus subspicatus
Chronic NOEC for Crustacea	3 mg/l 21 d
4,4'-ISOPROPYLIDENEDIPHENOL	
LC50 - for Fish	9.4 mg/l/96h Menidia menidia
EC50 - for Crustacea	10.2 mg/l/48h Daphnia magna
TRIS (4-NONYLPHENOL, BRANCHED) PHOSPHITE	
LC50 - for Fish	7.1 mg/l/96h pesce zebra
EC50 - for Crustacea	0.42 mg/l/48h daphnia magna
LC10 for Fish	44 mg/l/28d

### 12.2. Persistence and degradability

1,3-BIS(AMINOMETHYL)CYCLOHEXANE  
Degradability: information not available

4-NONYLPHENOL, BRANCHED  
Rapidly degradable

BENZYL ALCOHOL  
Rapidly degradable

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Solubility in water 1000 - 10000 mg/l  
NOT rapidly degradable

### 12. Ecological information ... / >>

#### 4,4'-ISOPROPYLIDENEDIPHENOL

Solubility in water 301 mg/l  
Rapidly degradable

### 12.3. Bioaccumulative potential

#### 1,3-BIS(AMINOMETHYL)CYCLOHEXANE

Partition coefficient: n-octanol/water 0.783

#### 4-NONYLPHENOL, BRANCHED

Partition coefficient: n-octanol/water 5.4

BCF > 260

#### BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1.1

#### 4,4'-ISOPROPYLIDENEDIPHENOL

Partition coefficient: n-octanol/water 3.4

### 12.4. Mobility in soil

#### 4-NONYLPHENOL, BRANCHED

Partition coefficient: soil/water > 22

#### 4,4'-ISOPROPYLIDENEDIPHENOL

Partition coefficient: soil/water 2.95

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

### 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: 1760

### 14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, N.O.S. (1,3-BIS(AMINOMETHYL)CYCLOHEXANE; 4-NONYLPHENOL, BRANCHED)  
IMDG: CORROSIVE LIQUID, N.O.S. (1,3-BIS(AMINOMETHYL)CYCLOHEXANE; 4-NONYLPHENOL, BRANCHED)  
IATA: CORROSIVE LIQUID, N.O.S. (1,3-BIS(AMINOMETHYL)CYCLOHEXANE; 4-NONYLPHENOL, BRANCHED)

**14. Transport information** ... / >>

**14.3. Transport hazard class(es)**

ADR / RID:            Class: 8            Label: 8

IMDG:                Class: 8            Label: 8

IATA:                 Class: 8            Label: 8



**14.4. Packing group**

ADR / RID, IMDG, IATA:            II

**14.5. Environmental hazards**

ADR / RID:            Environmentally Hazardous

IMDG:                Marine Pollutant

IATA:                 NO



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 1 L	Tunnel restriction code: (E)
	Special provision: -		
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L	Packaging instructions: 855
	Passengers:	Maximum quantity: 1 L	Packaging instructions: 851
	Special provision:	A3, A803	

**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.

### 15. Regulatory information ... / >>

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:

80-05-7 4,4'-ISOPROPYLIDENEDIPHENOL (Phenols)

EPCRA 302 EHS TPQ:

No component(s) listed.

EPCRA 304 EHS RQ:

No component(s) listed.

CERCLA RQ:

No component(s) listed.

EPCRA 313 TRI:

80-05-7 4,4'-ISOPROPYLIDENEDIPHENOL (Phenols)

RCRA Code:

No component(s) listed.

CAA 112 (r) RMP TQ:

No component(s) listed.

State Regulations

Massachusetts:

7631-86-9 AMORPHOUS SILICATE HYDRATE  
100-51-6 BENZYL ALCOHOL  
80-05-7 4,4'-ISOPROPYLIDENEDIPHENOL (Phenols)

Minnesota:

7631-86-9 AMORPHOUS SILICATE HYDRATE  
100-51-6 BENZYL ALCOHOL

New Jersey:

2855-13-2 3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE  
80-05-7 4,4'-ISOPROPYLIDENEDIPHENOL (Phenols)

New York:

No component(s) listed.

Pennsylvania:

7631-86-9 AMORPHOUS SILICATE HYDRATE  
100-51-6 BENZYL ALCOHOL  
80-05-7 4,4'-ISOPROPYLIDENEDIPHENOL (Phenols)

California:

7631-86-9 AMORPHOUS SILICATE HYDRATE  
80-05-7 4,4'-ISOPROPYLIDENEDIPHENOL (Phenols)

Proposition 65:

This product does not contain any substances known 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:

<b>H360</b>	May damage fertility or the unborn child.
<b>H361</b>	Suspected of damaging fertility or the unborn child.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful 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)
- 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

**16. Other information** ... / >>

- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Communication 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
- Massachusetts 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.