

**Safety Data Sheet**

According to U.S.A. Federal Hazcom 2012

**1. Identification**

**1.1. Product identifier**

Code: **DOMO21\_CAR\_A**  
Product name: **DOMO 21 CARTUCCIA PARTE A**

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

Intended use: **epoxy mastic part A**

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 Italy (VR)**  
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	
Carcinogenicity, category 2	Suspected of causing cancer.
Germ cell mutagenicity, category 2	Suspected of causing genetic defects.
Reproductive toxicity, category 1B	May damage fertility or the unborn child.
Eye irritation, category 2	Causes serious eye irritation.
Skin irritation, category 2	Causes skin irritation.
Skin sensitization, category 1	May cause an allergic skin reaction.

Hazard pictograms:



Signal words: **Danger**

Hazard statements:

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

<b>H351</b>	Suspected of causing cancer.
<b>H341</b>	Suspected of causing genetic defects.
<b>H360</b>	May damage fertility or the unborn child.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.

Precautionary statements:

Prevention:

<b>P261</b>	Avoid breathing dust / fume / gas / mist / vapours / spray.
<b>P202</b>	Do not handle until all safety precautions have been read and understood.
<b>P201</b>	Obtain special instructions before use.
<b>P280</b>	Wear protective gloves/ protective clothing / eye protection / face protection.
<b>P264</b>	Wash the hands thoroughly after handling.
<b>P272</b>	Contaminated work clothing should not be allowed out of the workplace.

Response:

<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P308+P313</b>	IF exposed or concerned: Get medical advice / attention.
<b>P333+P313</b>	If skin irritation or rash occurs: Get medical advice / attention.
<b>P337+P313</b>	If eye irritation persists: Get medical advice / attention.
<b>P302+P352</b>	IF ON SKIN: wash with plenty of water / . . .
<b>P362+P364</b>	Take off contaminated clothing and wash it before reuse.
<b>P363</b>	Wash contaminated clothing before reuse.

Storage:

<b>P405</b>	Store locked up.
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Disposal:

<b>P501</b>	Dispose of contents / container according to applicable law.
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### 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, chronic toxicity, category 2                      Toxic to aquatic life with long lasting effects.

Hazard pictograms:



Hazard statements:

<b>H411</b>	Toxic to aquatic life with long lasting effects.
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Precautionary statements:

Prevention:

<b>P273</b>	Avoid release to the environment.
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Response:

<b>P391</b>	Collect spillage.
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Storage:

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Disposal:

<b>P501</b>	Dispose of contents / container according to applicable law.
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Additional hazards

Information not available

## 3. Composition/information on ingredients

**3. Composition/information on ingredients** ... / >>

**3.2. Mixtures**

Contains:

Identification

**x = Conc. %**

**Classification:**

**BIS-[4-(2,3-EPOXIPROPPOXI)PHENYL]PROPANE**  
INDEX 603-073-00-2 50 ≤ x < 52

**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

**2,3-EPOXYPROPYL O-TOLYL ETHER**  
INDEX 603-056-00-X 16 ≤ x < 17

**Germ cell mutagenicity, category 2 H341, Skin irritation, category 2 H315, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, chronic toxicity, category 2 H411**

EC 218-645-3  
CAS 2210-79-9  
REACH Reg. 01-2119966907-18

**TITANIUM DIOXIDE**  
5 ≤ x < 6

**Carcinogenicity, category 2 H351**

EC 236-675-5  
CAS 13463-67-7  
REACH Reg. 01-2119489379-17

**4,4'-ISOPROPYLIDENEDIPHENOL**  
INDEX 604-030-00-0 2 ≤ x < 2.5

**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**

EC 201-245-8  
CAS 80-05-7  
REACH Reg. 01-2119457856-23

**PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID**  
0.7 ≤ x < 1

**Eye irritation, category 2 H319, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, chronic toxicity, category 3 H412**

EC 500-066-5  
CAS 28961-43-5  
REACH Reg. 01-2119489900-30-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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

**INHALATION:** Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

**INGESTION:** Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID  
Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation

**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 calcium fumes.

### 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.

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 7. Handling and storage ... / >>

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

Information not available

## 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

USA	OSHA-PEL	Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000.
USA	CAL/OSHA-PEL	California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).
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

#### TITANIUM DIOXIDE

##### Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV-ACGIH	-	2.5				RESP
OSHA	USA	15				INHAL
CAL/OSHA	USA	10				INHAL
CAL/OSHA	USA	5				RESP

#### 4,4'-ISOPROPYLIDENEDIPHENOL

##### Threshold Limit Value

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

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 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  
 FLUROELASTOMER  
 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	paste	
Colour	various	
Odour	characteristic	
Odour threshold	not available	
pH	not available	Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)
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	1.36 g/cm <sup>3</sup>	
Solubility	insoluble 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

Information not available

## 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.

### 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.

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

Avoid unintentional contact with amines.

**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

Interactive effects

Information not available

ACUTE TOXICITY

2,3-EPOXYPROPYL O-TOLYL ETHER

LD50 (Oral): 2800 mg/kg Ratto  
 LD50 (Dermal): > 2000 mg/kg Ratto

TITANIUM DIOXIDE

LD50 (Oral): > 5000 mg/kg Ratto  
 LD50 (Dermal): > 10000 mg/kg Coniglio  
 LC50 (Inhalation mists/powders): > 6.82 mg/l/4h Ratto

4,4'-ISOPROPYLIDENEDIPHENOL

LD50 (Oral): 5000 mg/kg  
 LD50 (Dermal): 3000 mg/kg Rabbit

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

LD50 (Oral): 11400 mg/kg Ratto  
 LD50 (Dermal): 2000 mg/kg Ratto

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID

LD50 (Oral): > 2000 mg/kg  
 LD50 (Dermal): > 13200 mg/kg

SKIN CORROSION / IRRITATION

Causes skin irritation

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID

OECD 404  
 Rabbit  
 Route of Exposure: Dermal  
 Effective dose: 0.5 mL  
 Exposure time: 4 hours  
 Result: non-irritating

SERIOUS EYE DAMAGE / IRRITATION

**11. Toxicological information** ... / >>

Causes serious eye irritation

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID  
 OECD 405  
 Rabbit  
 Route of exposure: eye  
 Effective dose 0.1 mL  
 Exposure time: 24 hours  
 Result: Irritating

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID  
 OECD 406  
 guinea pig  
 Route of Exposure: Dermal  
 Result: Sensitizing

GERM CELL MUTAGENICITY

Suspected of causing genetic defects

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID  
 OECD 474  
 Species: live  
 Result: Negative

CARCINOGENICITY

Suspected of causing cancer

Carcinogenicity Assessment:

1675-54-3 BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE  
 IARC:3  
 13463-67-7 TITANIUM DIOXIDE  
 ACGIH:: A4  
 IARC:2B  
 7631-86-9 AMORPHOUS SILICATE HYDRATE  
 IARC:3

REPRODUCTIVE TOXICITY

May damage fertility or the unborn child

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID  
 OECD 422: Combined Repeat Dose Toxicity Study with Reproductive and Developmental Toxicity Screening Test  
 Species: Rat  
 Result: NOAEL (No observed adverse effect level) 750 mg/kg bw/d

OECD 414: Pre-natal developmental toxicity study  
 Species: Rat  
 Result: NOAEL (No observed adverse effect level) > 1000 mg/kg bw/d

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

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID  
 OECD 422: Combined Repeat Dose Toxicity Study with Reproductive and Developmental Toxicity Screening Test  
 Species: Rat  
 Route of Exposure: Oral  
 Exposure time: 28 days  
 Result: NOAEL (No observed adverse effect level) 250 mg/kg bw/d

11. Toxicological information ... / >>

Species: Rat  
Route of Exposure: Dermal  
Exposure time: 16 days  
Result: NOAEL (No observed adverse effect level) 25 mg/kg bw/d

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

TITANIUM DIOXIDE

LC50 - for Fish > 1000 mg/l/96h  
EC50 - for Crustacea > 1000 mg/l/48h Daphnia  
EC50 - for Algae / Aquatic Plants > 61 mg/l/72h Pseudokirchneriella subcapitata

4,4'-ISOPROPYLIDENEDIPHENOL

LC50 - for Fish 9.4 mg/l/96h Menidia menidia  
EC50 - for Crustacea 10.2 mg/l/48h Daphnia magna

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

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID

LC50 - for Fish 1.95 mg/l/96h Danio Rerio  
EC50 - for Crustacea 70.7 mg/l/48h Daphnia Magna  
EC50 - for Algae / Aquatic Plants 2.2 mg/l/72h Desmodesmus subspicatus

12.2. Persistence and degradability

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID

OECD 301B  
CO2 evolution test  
28 days  
Biodegradation: 58 - 61%

TITANIUM DIOXIDE

Solubility in water < 0.001 mg/l  
Degradability: information not available

**12. Ecological information** ... / >>

4,4'-ISOPROPYLIDENEDIPHENOL

Solubility in water 301 mg/l  
Rapidly degradable

BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE  
NOT rapidly degradable

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID  
Rapidly degradable

**12.3. Bioaccumulative potential**

4,4'-ISOPROPYLIDENEDIPHENOL

Partition coefficient: n-octanol/water 3.4

PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTERS WITH ACRYLIC ACID

Partition coefficient: n-octanol/water 2.89

**12.4. Mobility in soil**

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: 3082

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

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity  $\leq$  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  $\leq$  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; 2,3-EPOXYPROPYL O-TOLYL ETHER)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE; 2,3-EPOXYPROPYL O-TOLYL ETHER)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE; 2,3-EPOXYPROPYL O-TOLYL ETHER)

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

**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

**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	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special provision: -		
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:

**15. Regulatory information ... / >>**

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:

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  
 13463-67-7 TITANIUM DIOXIDE  
 80-05-7 4,4'-ISOPROPYLIDENEDIPHENOL (Phenols)

Minnesota:

7631-86-9 AMORPHOUS SILICATE HYDRATE  
 13463-67-7 TITANIUM DIOXIDE

New Jersey:

13463-67-7 TITANIUM DIOXIDE  
 80-05-7 4,4'-ISOPROPYLIDENEDIPHENOL (Phenols)

New York:

No component(s) listed.

Pennsylvania:

7631-86-9 AMORPHOUS SILICATE HYDRATE  
 13463-67-7 TITANIUM DIOXIDE  
 80-05-7 4,4'-ISOPROPYLIDENEDIPHENOL (Phenols)

California:

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

Proposition 65:

WARNING! This product contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

**13463-67-7 TITANIUM DIOXIDE**

Hazard type	NSRL / MADL (µg/day)				Note
	Oral	Dermal	Inhalation	Intravenous	

International Regulations

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

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

None

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>H351</b>	Suspected of causing cancer.
<b>H341</b>	Suspected of causing genetic defects.
<b>H360</b>	May damage fertility or the unborn child.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<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>H411</b>	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

### 16. Other information ... / >>

- 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 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"
- Minnesota 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.

**Changes to previous review:**

The following sections were modified:

02 / 03 / 04 / 07 / 11 / 12 / 15 / 16.

**Safety Data Sheet**

According to U.S.A. Federal Hazcom 2012

**1. Identification**

**1.1. Product identifier**

Code: **DOMO21\_CAR\_B**  
 Product name: **DOMO 21 CARTUCCIA 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 Italy (VR)**  
 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 2  
 Acute toxicity, category 4  
 Skin corrosion, category 1  
 Serious eye damage, category 1  
 Skin sensitization, category 1

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

Hazard pictograms:



Signal words: **Danger**

Hazard statements:  
**H361** Suspected of damaging fertility or the unborn child.

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

**H332** Harmful if inhaled.  
**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.  
**P271** Use only outdoors or in a well-ventilated area.  
**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.  
**P302+P352** IF ON SKIN: wash with plenty of water / . . .  
**P363** Wash contaminated clothing before reuse.

Storage:

**P405** Store locked up.

Disposal:

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

The mixture contains 53.50% of components of unknown acute inhalation toxicity.

### 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, chronic toxicity, category 2                      Toxic to aquatic life with long lasting effects.

Hazard pictograms:



Hazard statements:

**H411** Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

**P273** Avoid release to the environment.

Response:

**P391** Collect spillage.

Storage:

--

Disposal:

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

Additional hazards

**Corrosive to the respiratory tract.**

## 3. Composition/information on ingredients

### 3. Composition/information on ingredients ... / >>

#### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification:
<b>METAXYLENDIAMINE</b>		
	23.2 ≤ x < 25	<b>Acute toxicity, category 4 H302, Acute toxicity, category 4 H332, Skin corrosion, category 1B H314, Serious eye damage, category 1 H318, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, chronic toxicity, category 3 H412</b>
EC	216-032-5	
CAS	1477-55-0	
REACH Reg.	01-2119480150-50	
<b>P-TERT-BUTYLPHENOL</b>		
INDEX	604-090-00-8	16 ≤ x < 17
		<b>Reproductive toxicity, category 2 H361, Serious eye damage, category 1 H318, Skin irritation, category 2 H315, Hazardous to the aquatic environment, chronic toxicity, category 1 H410 M=1</b>
EC	202-679-0	
CAS	98-54-4	
REACH Reg.	01-2119489419-21	
<b>N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE</b>		
	2.5 ≤ x < 3	<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	

\* 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, NOx and calcium fumes.

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

#### 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.

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

Information not available

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory References:

USA	NIOSH-REL	NIOSH publication No. 2005-149, 3th printing, 2007.
USA	CAL/OSHA-PEL	California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).
	TLV-ACGIH	ACGIH 2022

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

#### METAXYLENDIAMINE

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-			0.1		
CAL/OSHA	USA	0.1				SKIN
NIOSH	USA			0.1 (C)		SKIN

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 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	paste	
Colour	beige	
Odour	characteristic	
Odour threshold	not available	
pH	not available	Reason for missing data: substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)
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	

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

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	1.7 g/cm <sup>3</sup>
Solubility	insoluble in water
Partition coefficient: n-octanol/water	not available
Auto-ignition temperature	not available
Decomposition temperature	not available
Viscosity	>20,5 mm <sup>2</sup> /sec (40°C)
Explosive properties	not available
Oxidising properties	not available

#### 9.2. Other information

Information not available

#### 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.

##### 10.4. Conditions to avoid

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

##### 10.5. Incompatible materials

Information not available

##### 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

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

### ACUTE TOXICITY

Corrosive to the respiratory tract.

METAXYLENDIAMINE	
LD50 (Oral):	1180 mg/kg ratto
LD50 (Dermal):	> 3100 mg/kg ratto
LC50 (Inhalation mists/powders):	1.16 mg/l/4h ratto

P-TERT-BUTYLPHENOL	
LD50 (Oral):	2950 mg/kg rat
LD50 (Dermal):	2290 mg/kg rabbit
LC50 (Inhalation mists/powders):	> 5.6 mg/l/4h rat

### 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

Suspected of damaging 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 Viscosity: >20,5 mm<sup>2</sup>/sec (40°C)

## 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

METAXYLENDIAMINE	
LC50 - for Fish	87.6 mg/l/96h oryzias latipes
EC50 - for Crustacea	15.2 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	20.3 mg/l/72h selenastrum capricornutum

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

Chronic NOEC for Crustacea	4.7 mg/l 21d
Chronic NOEC for Algae / Aquatic Plants	10.5 mg/l 72 h
P-TERT-BUTYLPHENOL	
LC50 - for Fish	5.14 mg/l/96h Pimephales promelas (Cavedano americano)
EC50 - for Crustacea	3.9 mg/l/48h Daphnia magna (Pulce d'acqua grande)
EC50 - for Algae / Aquatic Plants	11.2 mg/l/72h Scenedesmus subspicatus

### 12.2. Persistence and degradability

METAXYLENDIAMINE  
 NOT rapidly degradable

P-TERT-BUTYLPHENOL  
 Rapidly degradable

### 12.3. Bioaccumulative potential

P-TERT-BUTYLPHENOL

BCF < 500 -

### 12.4. Mobility in soil

Information not available

### 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. (METAXYLENDIAMINE)  
 IMDG: CORROSIVE LIQUID, N.O.S. (METAXYLENDIAMINE; P-TERT-BUTYLPHENOL)  
 IATA: CORROSIVE LIQUID, N.O.S. (METAXYLENDIAMINE)

#### 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:

No component(s) listed.

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:

No component(s) listed.

RCRA Code:

No component(s) listed.

CAA 112 (r) RMP TQ:

No component(s) listed.

State Regulations

Massachusetts:

7631-86-9	AMORPHOUS SILICATE HYDRATE
1477-55-0	METAXYLENDIAMINE

Minnesota:

7631-86-9	AMORPHOUS SILICATE HYDRATE
1477-55-0	METAXYLENDIAMINE

New Jersey:

1477-55-0	METAXYLENDIAMINE
-----------	------------------

New York:

No component(s) listed.

Pennsylvania:

7631-86-9	AMORPHOUS SILICATE HYDRATE
1477-55-0	METAXYLENDIAMINE

California:

7631-86-9	AMORPHOUS SILICATE HYDRATE
1477-55-0	METAXYLENDIAMINE

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:

None

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>H361</b>	Suspected of damaging fertility or the unborn child.
<b>H302</b>	Harmful if swallowed.
<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>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
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Communication Standard (HCS 2012)

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

- 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"
- Minnesota Chapter 5206 Department 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.

**Changes to previous review:**

The following sections were modified:

01 / 02 / 03 / 05 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.