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

1.1 Product identifier

Techno Stick Steel/Metal, Alu, Water, Copper

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

1.2.1 Relevant uses

Adhesive

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

TECHNIQUA HANDELS GmbH
Hartleitnerstraße 3
A-4653 Eberstalzell
Tel: +43 (0) 7241 213 79
E-Mail: office@techniqua.at

1.4 Emergency telephone number

Poisoning Information Centre (VIZ), Stubenring 6, A-1010 Vienna
Emergency call 0-24 hrs: +43 1 406 43 43
Office hours: Monday to Friday, 8 to 16 hrs, Tel.: +43 1 406 68 98

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

WARNING

Contains:

Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide

bis-[4-(2,3-epoxipropoxi)phenyl]propane

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves / eye protection / face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice / attention.
P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

Human health dangers People who are allergic to epoxide should avoid the use of the product.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
20 - 40	Talc (Mg3H2(SiO3)4)
	CAS: 14807-96-6, EINECS/ELINCS: 238-877-9
20 - 40	Calcium carbonate
	CAS: 471-34-1, EINECS/ELINCS: 207-439-9
10 - < 20	bis-[4-(2,3-epoxipropoxi)phenyl]propane
	CAS: 1675-54-3, EINECS/ELINCS: 216-823-5, EU-INDEX: 603-073-00-2, Reg-No.: 01-2119456619-26-0026
	GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411
10 - < 20	Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide
	EINECS/ELINCS: 701-196-7, Reg-No.: 01-2120118957-46
	GHS/CLP: Skin Sens. 1B: H317 - Aquatic Chronic 3: H412
< 5	2,4,6-Tris(dimethylaminomethyl)phenol
	CAS: 90-72-2, EINECS/ELINCS: 202-013-9, EU-INDEX: 603-069-00-0, Reg-No.: 01-2119560597-27-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion Consult a doctor immediately.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to your doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet.
Dry powder.
Carbon dioxide.
Foam.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.
Use barrier skin cream.
Contaminated work clothing should not be allowed out of the workplace.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with oxidizing agents.

Keep container tightly closed.
Keep container in a well-ventilated place.
Keep in a cool place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Talc (Mg3H2(SiO3)4)
CAS: 14807-96-6, EINECS/ELINCS: 238-877-9
Long-term exposure: 1 mg/m³, respirable dust
Calcium carbonate
CAS: 471-34-1, EINECS/ELINCS: 207-439-9
Long-term exposure: 10 mg/m³, inhalable dust
Titanium dioxide
CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, Reg-No.: 01-2119489379-17-XXXX
Long-term exposure: 4 mg/m³, respirable; total inhalable: TWA=10 mg/m³

DNEL

Substance
Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide
Industrial, dermal, Long-term - systemic effects, 2.7 mg/kg bw/d (AF=90)
Industrial, inhalative, Long-term - systemic effects, 22 mg/m³ (AF=6)
general population, inhalative, Long-term - systemic effects, 6.52 mg/m³(AF=10)
general population, oral, Long-term - systemic effects, 1.9 mg/kg bw/d (AF=40)
general population, dermal, Long-term - systemic effects, 1.61 mg/kg bw/d (AF=150)
bis-[4-(2,3-epoxipropoxi)phenyl]propane, CAS: 1675-54-3
Industrial, dermal, Long-term - systemic effects, 0.75 mg/kg bw/d (AF= 100)
Industrial, inhalative, Long-term - systemic effects, 4.93 mg/m³ (AF= 12.5)
general population, oral, Long-term - systemic effects, 0.5 mg/kg bw/d (AF= 100)
general population, dermal, Long-term - systemic effects, 89.3 µg/kg bw/d (AF= 200)
general population, inhalative, Long-term - systemic effects, 0.87 mg/m³ (AF= 25)

PNEC

Substance
Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide
soil, 23 µg/kg dw
freshwater, 70 µg/L (AF=50)
seawater, 7 µg/L (AF=500)
sewage treatment plants (STP), 10 mg/L (AF=100)
sediment (seawater), 32 µg/kg dw
sediment (freshwater), 322 µg/kg dw
2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2
freshwater, 0.084 mg/l (AF= 1000)
sewage treatment plants (STP), 0.2 mg/l (AF= 10)
seawater, 0.008 mg/l (AF= 10 000)
bis-[4-(2,3-epoxipropoxi)phenyl]propane, CAS: 1675-54-3
seawater, 0.001 mg/L (AF= 500)
freshwater, 0.006 mg/L (AF= 50)
oral (food), 11 mg/kg food (AF= 90)
sewage treatment plants (STP), 10 mg/L (AF= 10)

sediment (freshwater), 0.341 mg/kg dw
sediment (seawater), 0.034 mg/kg dw
soil, 0.065 mg/kg dw

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,4 mm/ Butyl rubber, >480 min (EN 374-1/-2/-3). In splash contact: > 0,4 mm/ Nitrile rubber, >480 min (EN 374-1/-2/-3).
Skin protection	not applicable
Other	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Do not inhale vapours. Avoid contact with eyes and skin.
Respiratory protection	not applicable
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	pasty 20°C: solid
Color	various
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	> 100
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	1.9 - 2.09
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	not applicable
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 7

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg bw

Substance
Calcium carbonate, CAS: 471-34-1
LD50, oral, Rat, 6450 mg/kg bw (IUCLID)
Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide
LD50, oral, Rat, 2600 mg/kg bw
2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2
LD50, oral, Rat, 1916 - < 2455 mg/kg (ECHA)
LD50, oral, Rat, 2169 mg/kg bw
NOAEL, oral, Rat, 15 mg/kg bw/day
bis-[4-(2,3-epoxipropoxi)phenyl]propane, CAS: 1675-54-3
LD50, oral, Rat, > 15 000 mg/kg bw

Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg bw

Substance
Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide
LD50, dermal, Rabbit, > 10 200 mg/kg bw
2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2
LD50, dermal, Rat, 1280 mg/kg (Lit.)
LD50, dermal, Rat, 1 mL/kg bw
bis-[4-(2,3-epoxipropoxi)phenyl]propane, CAS: 1675-54-3
LD50, dermal, Rat, > 23 000 mg/kg

Acute inhalational toxicity

Substance
Calcium carbonate, CAS: 471-34-1
LC0, inhalative, Rat, 0,0812 mg/L (90 min) (IUCLID)
Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide
LC50, inhalative, Rat, > 0.1 mg/L (Air)

Serious eye damage/irritation
Toxicological data of complete product are not available.
Irritant
Calculation method
Based on the available information, the classification criteria are fulfilled.

Skin corrosion/irritation
Toxicological data of complete product are not available.
Irritant
Calculation method
Based on the available information, the classification criteria are fulfilled.

Respiratory or skin sensitisation
Toxicological data of complete product are not available.
Sensitizing.
Calculation method
Based on the available information, the classification criteria are fulfilled.

Specific target organ toxicity — single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity — repeated exposure	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproduction toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
General remarks	
	Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide
LC50, (96h), Danio rerio, 87 mg/L
EC50, (48h), Daphnia magna, 12 mg/L
EC50, (72h), Desmodesmus subspicatus, > 733 mg/L
NOEC, (21d), Daphnia magna, 3.5 mg/L
NOEC, (72h), Desmodesmus subspicatus, 388 mg/L
Talc (Mg3H2(SiO3)4), CAS: 14807-96-6
LC50, (24h), Brachidanio rerio, >100 mg/L (IUCLID)
2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2
LC50, (96h), fish, 175 mg/L
EC50, (72h), Algae, 84 mg/L
EC50, (96h), Daphnia magna, 718 mg/L
NOEC, (28d), soil macro-organism, 2 mg/L
bis-[4-(2,3-epoxipropoxi)phenyl]propane, CAS: 1675-54-3
LC50, (96h), fish, 2 mg/L
EC50, (48h), Daphnia magna, 1.8 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.
Based on the available information, the classification criteria are fulfilled.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080409*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS
Inland navigation (ADN)	NO DANGEROUS GOODS
Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	not applicable

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H302 Harmful if swallowed.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Customs Tariff 39073000

Classification procedure
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position
SECTION 2 been added: bis-[4-(2,3-epoxipropoxi)phenyl]propane

SECTION 3 been added: bis-[4-(2,3-epoxipropoxi)phenyl]propane