SAFETY DATA SHEET

CeRaPOXY TG

Component B

Two-component solvent-free epoxy tile grout

Product code	2.TG.POXY-B
Version	**2026.10**
Date of issue	01/10/2026
Revision date	Supersedes version 2026.07

Prepared in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) and the Vietnam Law on Chemicals No. 69/2025/QH15. This sheet contains the 16 mandatory sections in order.

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE SUPPLIER

1.1 Product identifier

Trade name	CeRaPOXY TG — Component B
Product code	2.TG.POXY-B
Role within the product set	Component B (hardener, liquid, pale yellow) of the CeRaPOXY TG two-component epoxy tile grout set. / Mix with Component A (epoxy base resin) in the ratio A : B = 16 : 1 by weight before application. / See the separate SDS for Component A for the hazards of the base resin.
Product type	Two-component solvent-free epoxy tile grout
Product classification	Hardener (component of a type RG epoxy tile grout to EN 13888-1:2022 and ISO 13007-3:2010)
Packaging	5.2kg set (A: 4.9kg · B: 0.3kg)

1.2 Relevant identified uses and uses advised against

Identified use: amine hardener component of the CeRaPOXY TG epoxy tile grout; to be used only after mixing with Component A in the manufacturer's ratio and according to its instructions, for the joints of ceramic tiles, porcelain tiles, natural stone and mosaic.

Uses advised against: use on its own, without being mixed with Component A, or any application outside the manufacturer's technical instructions.

1.3 Details of the supplier / manufacturer

BUMATECH CO., LTD

HEAD OFFICE
154/1/5 Cong Lo, Tan Son Ward, Ho Chi Minh City

OFFICE
91 Hoang Bat Dat, Tan Son Ward, Ho Chi Minh City

PLANT
820 Ap Chanh, Duc Lap Commune, Tay Ninh Province

TECHNICAL
0979 793 804

SALES
0914 765 778

EMAIL
bumagreen@bumatech.com.vn

WEBSITE
www.bumatech.vn

1.4 Emergency telephone number

Medical emergency — 24/7: **115** (national emergency number). Take this Safety Data Sheet or the product label with you to the medical facility.

BUMATECH Technical Department: 0979 793 804 (office hours) — advice on the product and on response measures.

2 HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture (GHS)

HAZARD CLASS AND CATEGORY	CATEGORY	H CODE
Acute toxicity – oral (Acute Tox. oral)	Category 4	H302
Acute toxicity – dermal (Acute Tox. dermal)	Category 4	H312
Acute toxicity – inhalation, vapour (Acute Tox. inhalation)	Category 4	H332
Skin corrosion (Skin Corr.)	Category 1C	H314
Serious eye damage (Eye Dam.)	Category 1	H318
Skin sensitisation (Skin Sens.)	Category 1	H317
Hazardous to the aquatic environment — chronic (Aquatic Chronic)	Category 3	H412

2.2 GHS label elements



GHS05
Corrosion



GHS07
Exclamation mark

SIGNAL WORD
DANGER

Hazard statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/clothing and eye/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.

2.3 Other hazards

- Alkaline (amine) — CORROSIVE to the skin and causes serious eye damage.
- Harmful if swallowed, in contact with skin and if inhaled (acute toxicity, Category 4).
- Contains benzyl alcohol and isophorone diamine (IPDA); may cause skin sensitisation (allergic dermatitis). Amine burns may appear some time after exposure.
- Harmful to aquatic life with long lasting effects (Aquatic Chronic 3) — avoid release to the environment and to water bodies.
- Mixing with Component A (epoxy base resin) starts an EXOTHERMIC curing reaction (the temperature reached may be high); mix only the quantity that can be used within the permitted working time.
- Based on the available data, the components do not meet the PBT / vPvB criteria.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Mixture — modified cycloaliphatic amine hardener. Hazardous components within the meaning of GHS:

COMPONENT NAME	CAS / EC NO.	CONCENTRATION	CLASSIFICATION (GHS)
Benzyl alcohol	CAS: 100-51-6 EC: 202-859-9	35 - 45%	Acute Tox. 4 (H302); Acute Tox. 4 (H332)
Modified cycloaliphatic polyamine adduct (proprietary component of the supplier)	—	35 - 45%	Contributes to the corrosivity / sensitising properties of the mixture (classification information not disclosed)
Isophorone diamine — IPDA (5-amino-1,3,3-trimethylcyclohexanemethanamine)	CAS: 2855-13-2 EC: 220-666-8	15 - 25%	Acute Tox. 4 (H302); Acute Tox. 4 (H312); Skin Corr. 1B (H314); Skin Sens. 1 (H317); Aquatic Chronic 3 (H412)

Amine hydrogen equivalent weight (AHEW) ≈ 110g/eq; total amine value ≈ 220 - 320 mgKOH/g.

4 FIRST-AID MEASURES

4.1 Description of necessary first-aid measures

General principles: First-aiders must protect themselves (the product is corrosive). In any case of doubt, get medical attention and take the SDS / product label with you.

Skin contact (corrosive): Immediately remove contaminated clothing. Wash the skin at once with plenty of water (or under a shower) continuously for at least 15 minutes. GET MEDICAL ATTENTION IMMEDIATELY (risk of chemical burns). Do not apply ointments or creams unless directed to do so.

Eye contact: Rinse immediately under gently running clean water with the eyelids held open, continuously for 10 - 15 minutes; remove contact lenses if present. Consult an ophthalmologist IMMEDIATELY (risk of serious eye damage).

Ingestion: Do not induce vomiting. Rinse mouth with water. Get medical attention immediately, taking the SDS and the label with you.

Inhalation: Move the person to fresh air, keep warm and at rest in a position comfortable for breathing. If breathing discomfort occurs, get medical advice.

4.2 Most important symptoms/effects, acute and delayed

Skin burns and eye damage; irritation; may cause skin sensitisation (allergic dermatitis); inhalation of vapour / mist causes respiratory irritation. Amine burns may appear with a delay.

4.3 Indication of immediate medical attention and special treatment

Treat symptomatically; watch for delayed-onset amine burns. No specific antidote is known.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable media: water (spray), alcohol-resistant foam, CO_2, dry powder.

Unsuitable media: a strong water jet (it may spread the liquid).

5.2 Special hazards arising from the chemical

The product is difficult to ignite (flash point ≈ 100°C). Combustion generates dense smoke; thermal decomposition products may include carbon monoxide (CO), CO_2 and nitrogen oxides (NOx from the amine).

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus (SCBA) and full protective equipment. Collect contaminated fire-extinguishing water separately; do not discharge it into drains or water bodies.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment (Section 8), in particular chemical-resistant gloves and eye protection (the product is corrosive). Avoid skin and eye contact and inhalation of vapour. Move unprotected persons out of the area; ventilate.

6.2 Environmental precautions

Do not allow the product to enter soil, water bodies or drains (very toxic to aquatic life). Contain the spill with earth or sand.

6.3 Methods and material for containment and cleaning up

Absorb with inert material (sand, earth, absorbent granules); place in suitable, labelled containers for disposal. Amine residues may be neutralised with plenty of water. Retain the contaminated wash water for treatment; do not discharge it to drains.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid skin and eye contact (the product is corrosive) and inhalation of vapour / mist. Apply in a well-ventilated area. Mix with Component A in the correct ratio A : B = 16 : 1, stir thoroughly and apply within the permitted working time (pot life ≈ 30 minutes at 35°C). Do not eat or drink while working. See Section 8 for protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool place away from direct sunlight and high temperatures; keep out of reach of children and away from food. Close the packaging tightly after opening.

Shelf life: 12 months in the unopened container (per the Technical Data Sheet).

Incompatible materials: strong acids and strong oxidisers; certain metals (copper, aluminium).

7.3 Specific end use(s)

Hardener for a two-component epoxy tile grout (see Section 1 and the product Technical Data Sheet).

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters — occupational exposure limits (Vietnam)

Per QCVN 02:2019/BYT (National Technical Regulation on Dust — Permissible Exposure Limit Values of Dust at the Workplace):

AGENT	BASIS	LIMIT VALUE (TWA)
Mist / vapour (benzyl alcohol, amine)	No specific OEL has been set in Vietnam	International reference: benzyl alcohol OEL ~ 44mg/m³ (10ppm); isophorone diamine inhalation DNEL ~ 20.1mg/m³ (occupational)
Workplace air monitoring	QCVN 02:2019/BYT; Law on Occupational Safety and Health	Workplaces with exposed employees should carry out periodic workplace air monitoring

Workplaces where employees are exposed to dust must carry out periodic workplace air monitoring at least once a year, per QCVN 02:2019/BYT and the Law on Occupational Safety and Health.

8.2 Individual protection measures (PPE)

Eye protection: Close-fitting chemical splash goggles (EN 166); do not use contact lenses. An eyewash point should be available at the workplace.

Hand protection: Chemical-resistant gloves per EN ISO 374 — nitrile rubber (NBR) ≥ 0.35mm; neoprene (CR) ≥ 0.5mm; butyl rubber (IIR) ≥ 0.5mm; fluoro rubber (FKM) ≥ 0.4mm; breakthrough time ≥ 480 minutes.

Respiratory protection: Where ventilation is inadequate, use a respirator with ABEK-P2 / P3 filters (EN 14387).

Skin / body protection: Close-fitting impermeable protective clothing (coated cotton, rubber, PVC or Viton); wear boots where required.

Engineering controls: Adequate ventilation; local extraction where required.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Colour	Pale yellow
Odour	Characteristic (slight amine)
Odour threshold	No data available
pH	No data available (amine product, alkaline)
Melting/freezing point	No data available
Boiling point	No data available
Flash point	≈ 131°C
Evaporation rate	No data available
Flammability	No data available (high flash point)
Vapour pressure	No data available
Density	≈ 1.02 - 1.03g/cm³
Solubility in water	No data available
Partition coefficient n-octanol/water	No data available
Decomposition temperature	No data available
Viscosity	≈ 300 - 500 cPs (25°C)

10 STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions. Mixing with Component A (epoxy resin) starts an exothermic curing reaction — this is the intended reaction.
10.2 Chemical stability	Stable when stored correctly in closed packaging away from moisture and heat.
10.3 Possibility of hazardous reactions	Reacts vigorously (exothermically) with acids. No other hazardous reactions occur under normal conditions of use.
10.4 Conditions to avoid	Elevated temperatures, heat and ignition sources; moisture.
10.5 Incompatible materials	Strong acids, strong oxidisers; certain metals (copper, aluminium).
10.6 Hazardous decomposition products	None under normal conditions; on combustion, CO, CO_2 and NOx are formed.

11 TOXICOLOGICAL INFORMATION

Toxicity data: mixture (ATEmix) — oral 300 < ATE ≤ 2000mg/kg, dermal 1000 < ATE ≤ 2000mg/kg, inhalation 10.0 < ATE ≤ 20.0mg/l. Components: benzyl alcohol LD50 (oral, rat) 1610mg/kg, (dermal, rabbit) 2000mg/kg, LC50 (inhalation) 6.25mg/l/4h; IPDA LD50 (oral, rat) 1030mg/kg, (dermal) > 2000mg/kg.

ROUTE OF EFFECT	CLASSIFICATION RESULT
a) Acute toxicity	Classified: Acute toxicity Category 4 — oral (H302), dermal (H312) and inhalation (H332)
b) Skin corrosion/irritation	Classified: Skin corrosion, Category 1C (H314)
c) Serious eye damage/irritation	Classified: Serious eye damage, Category 1 (H318)
d) Respiratory/skin sensitisation	Classified: Skin sensitisation, Category 1 (H317)
e) Germ cell mutagenicity	Not classified
f) Carcinogenicity	Not classified
g) Reproductive toxicity	Not classified
h) STOT — single exposure	Not classified
i) STOT — repeated exposure	Not classified
j) Aspiration hazard	Not classified

12 ECOLOGICAL INFORMATION

Classification	Hazardous to the aquatic environment — chronic, Category 3 (H412) — harmful to aquatic life with long lasting effects. Not a marine pollutant.
Component data	benzyl alcohol LC50 fish 460mg/L (96h), EC50 crustacea (daphnia) 230mg/L (48h), EC50 algae 770mg/L (72h); IPDA LC50 fish 110mg/L (96h), EC50 daphnia 23mg/L (48h), EC50 algae 37mg/L.
Persistence and degradability	limited data available.
Bioaccumulative potential / mobility in soil	no complete data available.
Other adverse effects	prevent the product from entering the environment, water bodies and drains.

13 DISPOSAL CONSIDERATIONS

- • Uncured product (corrosive, harmful to aquatic life): handle as HAZARDOUS WASTE — hand it to a licensed waste contractor; incineration is the preferred route.
- • Alternatively, allow the product to react and cure completely (mixed with Component A), then dispose of it as inert solid construction waste.
- • Do not discharge the product or wash water into drains, canals or water bodies.
- • Packaging: handle in accordance with local / national regulations; empty pails may still contain residues — do not reuse for other purposes.

14 TRANSPORT INFORMATION

The product is classified as dangerous goods for transport (corrosive, Class 8).

UN number	UN 2735
Proper shipping name (PSN)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. — isophorone diamine
Transport hazard class(es)	Class 8 — corrosive substances
Packing group	III
Marine pollutant	None
Additional requirements	IMDG: EmS F-A (fire), S-B (corrosive substances). Domestic transport is subject to the dangerous-goods safety management regulations.

Comply with Decree 161/2024/NĐ-CP on the domestic transport of dangerous goods and with the ADR/RID, IMDG and IATA regulations for international transport.

15 REGULATORY INFORMATION

Vietnam

- • Law on Chemicals No. 69/2025/QH15 (effective from 01/01/2026).
- • Decree 24/2026/NĐ-CP, Decree 25/2026/NĐ-CP and Decree 26/2026/NĐ-CP.
- • Circular 01/2026/TT-BCT and Circular 02/2026/TT-BCT of the Ministry of Industry and Trade.
- • QCVN 02:2019/BYT — permissible dust exposure limits at the workplace.
- • Decree 161/2024/NĐ-CP — transport of dangerous goods.
- • Law on Occupational Safety and Health; applicable goods-labelling regulations.
- • Classification and labelling per the Globally Harmonized System (GHS).

International

- • United Nations GHS (current edition).
- • Reference product standards: EN 13888-1:2022 and ISO 13007-3:2010 (epoxy tile grouts, type RG).
- • Chemical safety assessment: not mandatory for this mixture.

16 OTHER INFORMATION

Full text of the hazard (H) statements appearing in this SDS

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Explanation of hazard classifications

GHS SECTION	CLASSIFICATION CODE	MEANING
3.1/4	Acute Tox. 4	Acute toxicity (oral / dermal / inhalation), Category 4
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1	Skin Sens. 1	Skin sensitisation, Category 1
4.1/C3	Aquatic Chronic 3	Hazardous to the aquatic environment — chronic, Category 3

Legend to abbreviations

CAS	Chemical Abstracts Service
EC / EINECS	European Community EINECS / ELINCS inventory
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
OEL / TWA	Occupational exposure limit / time-weighted average / short-term
DNEL / PNEC	Derived no-effect level / predicted no-effect concentration
PPE	Personal protective equipment
ADR / RID / IMDG / IATA	Dangerous-goods transport regulations: road / rail / sea / air
IARC	International Agency for Research on Cancer
VOC	Volatile organic compound

Main data sources: CeRaPOXY TG Technical Data Sheet (version 2026.10); United Nations GHS; Law on Chemicals 69/2025/QH15

Disclaimer: The information herein is based on our state of knowledge at the date stated and refers solely to the product indicated; it constitutes no guarantee of any particular property. It is the user's responsibility to ensure that this information is appropriate and complete for the specific intended use. This SDS cancels and replaces any preceding release.

END OF SAFETY DATA SHEET · 16 OF 16 SECTIONS