

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND NAME OF THE COMPANY/UNDERTAKING

TRADE NAME : SaffroEpoxy 3k Grout
MANUFACTURER'S NAME : PANKAJ PETROCHEMICAL PVT. LTD.
Jind Road, VPO Titoli, Rohtak, Haryana, 124001
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Recommended use of the chemical and restrictions on use

Recommended use : Epoxy Grout for Tile/Stone joints
Restrictions on use : NA

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation, H315

Serious eye damage/eye irritation, Category 1 H318

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning; Causes skin irritation

Hazard statement(s)

H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction
H341	Suspected of causing genetic defects
H411	Toxic to aquatic life with long lasting effects
H319	Causes serious eye irritation
H350	May cause cancer (Ingestion)
H370	Causes damage to organs (central nervous system, optic nerve) (oral, Dermal)

Precautionary statement(s)

: Prevention

P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing dust/ vapor/ spray/ mist/ mist/ gas.
P264	Wash thoroughly after handling
P270	Do not eat, drink, or smoke when using this product
P272	Contaminated work clothing should not be allowed out of The workplace
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

: Response

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
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.
P403 + P235	Store in a well-ventilated place. Keep cool.

: Disposal

P501	Dispose of contents/container to an approved waste disposal plant in accordance with local, regional, national, and international regulations.
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Supplemental Hazard Statement(s)

P264	Wash contaminated skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P333+P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313	If eye irritation persists: Get medical advice/ attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Ingredients

Chemical Name	CAS-No.	Concentration (%)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction product: Bisphenol-A- (epichlorohydrin) epoxy resin (number average molecular weight \leq 400)	25068-38-6	< 40%	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411
Silica Sand	14808-60-7	>60%	Carcinogenicity, category 1A, H350-370
Titanium dioxide	13463-67-7	0 – 4	Carcinogenicity, category 1A, H350-370

4. FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

If swallowed: Do not induce vomiting. If the material is swallowed, get medical attention or advice.

In case of skin contact: If irritation is experienced, flush with water. If irritation persists, get medical attention.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing media

The product is NOT flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder, or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media

Do NOT use High Volume water jet.

5.2 Special hazards arising from the substance or mixture:

Containers can burst violently or explode when heated, due to excessive pressure build-up. Thermal decomposition or combustion products may include Harmful gases or vapors.

5.3 Specific extinguishing methods:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Remove undamaged containers from fire area if it is safe to do so.

Avoid breathing fire gases or vapors.

Evacuate area.

Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

Cool containers exposed to flames with water until well after the fire is out.

Avoid discharge to the aquatic environment.

Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

5.3 Fire Fighting Equipment/Instructions:

In the event of fire, use personal protective equipment, protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and wear self-contained breathing apparatus.

5.5 NFPA Rating: Health:1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

5.6 Further information:

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures:

No action shall be taken without appropriate training or involving any personal risk.

Keep unnecessary and unprotected personnel away from the spillage.

Wear protective clothing as described in Section 8 of this safety data sheet.

Follow precautions for safe handling described in this safety data sheet.

Wash thoroughly after dealing with a spillage.

Ensure procedures and training for emergency decontamination and disposal are in place.

Do not touch or walk into spilled material without PPEs.

Avoid contact with skin and eyes.

6.2 Environmental precautions:

Avoid discharge into drains or watercourses or onto the ground.

Avoid discharge to the aquatic environment.

Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3 Methods and materials for containment:

Wear protective clothing as described in Section 8 of this safety data sheet.

Clear up spills immediately and dispose of waste safely.

Approach the spillage from upwind.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Clean the affected area carefully.

6.4 Methods and materials for cleaning up:

If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container.

If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant or proceed as follows.

The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water.

Wash thoroughly after dealing with a spillage.

6.5 Further Information:

Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling

: Comply with the legal requirements. Keep receptacles tightly sealed. Remove contaminated clothing immediately. Clean contaminated clothing. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosion proof appliances and lighting system. Observe normal hygiene standards. Keep container tightly closed. Work under local exhaust/ventilation.

Hygiene measures

: Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink, or smoke when using this product. Wash at the end of each work shift and before eating, smoking, and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place away from incompatible materials.

Conditions for safe storage, including any incompatibilities

: Miscellaneous hazardous material storage.
Store in accordance with local regulations.
Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up.
Keep container tightly closed and sealed until ready for use.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.
Use appropriate containment to avoid environmental contamination.
See Section 10 for incompatible materials before handling or use.

**Local/Total ventilation
Special rules on packaging**

: Use with local exhaust ventilation.
: SPECIAL REQUIREMENTS: closing. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packaging in solid containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

There is no exposure data pertaining to the Product.

8.3 Exposure Controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective equipment : Safety glasses. Gloves. Protective clothing.

Materials for protective clothing : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Eye/face protection : Tight Sealed Goggles and Face shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection : Protective clothing.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapor (Type AX) and particulate filter

Other information

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product

8.4 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Results
Appearance	Part A (Resin) : Part B (Hardener): Part C (Filler)
Mixing Ratio (Part A : Part B)	2:1:7
Mixed Material Consistency	Smooth Creamy Paste
Mixed Density	1700±50 Kg/mm ³
Pot Life (27±2°C)	60 minutes
Workability (27±2°C)	45 minutes
Foot Traffic (27±2°C)	24 Hours
Initial Setting Time (27±2°C)	≥3 Hours
Joint Width	2–12 mm
Sag Resistant	Non-sag
Total VOC Content (EPA 24 Method)	<8 gm/Kg
Application Temperature	10°C to 35°C
Temperature of Use	20°C to 100°C

10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur
Conditions to avoid	: No further relevant information available.
Incompatible materials	: Strong Oxidizing agents, Strong Alkali, Strong Bases, Amines
Hazardous decomposition Products	: No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

There is no data for this product. The information included in this section describes the potential hazards of the individual ingredients.

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Irritating to eyes. May cause redness, itching, and pain.
Skin Contact	May cause redness and irritation.
Ingestion	Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No further relevant information available

12.2 Persistence and degradability

No further relevant information available

12.3 Bio accumulative potential

No further relevant information available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

Remarks: Toxic for Fish

12.6 Other adverse effects

Additional ecological information	No data available
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13. DISPOSAL INFORMATION

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

14.1 International Regulation

UNRTDG

UN number : UN3082

UN proper shipping name

ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight \leq 400))

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane), MARINE POLLUTANT

IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane)

Packing group : Miscellaneous dangerous substances and articles

Labels 9

14.1 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.2 Packaging group

ADR/RID: III IMDG: III IATA: III

14.3 Environmental hazards

ADR/RID Symbol: Fish and Tree IMDG: Marine pollutant: Yes IATA Symbol: Fish and Tree

14.4 Special precautions for user

No data available

15. REGULATORY INFORMATION

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

Harmful Chemicals List: Listed

16. OTHER INFORMATION

This information is furnished without warranty, representation, inducement, or license of any kind; except that it is accurate to the best of our knowledge, or obtained from sources believed by us to be accurate