

**MATERIAL SAFETY DATA SHEET**

Reviewed & Approved by,
Dr. P. Arjunan, Vice President – R&D

1. PRODUCT IDENTIFICATION

TRADE NAME : **LATAPOXY STANDARD EPOXY ADHESIVE PART A**
CHEMICAL NAME/ FAMILY : **Epoxy Adhesive Hardener**
MANUFACTURER'S NAME : MYK LATICRETE INDIA PVT. LTD
Plot No. 30/C (Sy. No. 83/1), Orbit Building, 17th Floor, Tower 1,
Knowledge City, TSIC, Raidurg, Ranga Reddy Dist.,
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Recommended use of the chemical: Latapoxy Standard Epoxy Adhesive, for Stone installation Applications.

2. HAZARDOUS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

This mixture is classified as hazardous according to 1999/45/EC.

C; R34 Corrosive Causes burns.

R43 May cause sensitization by skin contact.

2.2. Label elements**Labeling (67/548/EEC or 1999/45/EC)**

C Corrosive

Hazard statements

43 May cause sensitization by skin contact.

Precautionary statements

24 Avoid contacts with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately.

Contains:

Dimer acids, C-18 unsatd fatty acids and aliphatic polyamines

Special provisions concerning the labeling of certain mixtures

None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization

Description: Epoxy Hardener

Hazardous ingredients

Classification according to Directive 67/548/EEC or 1999/45/EC

Dangerous ingredients:

| EC-no.: | Identification of the hazard: | % by weight |
|------------|--|-------------|
| CAS-No.: | R phrases: | |
| INDEX no.: | REACH-no.: | |
| | Reaction product of dimer acid, C-18 unsatd. Fatty acids with triethylenetetramine | 100 |
| 68082-29-1 | Xn; R21 / C; / R43 / R52-53 | |

Additional information

Full test of R-phrases: see section 16

4. FIRST AID MEASURES

4.1 Description of First Aid measures

General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

In case of inhalation:

Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of skin contact:

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

Following eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.

In case of ingestion:

If swallowed, rinse your mouth with water (only if the person is conscious). Consult physician immediately. Keep the victim calm. Do not induce vomiting.



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

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Alcohol resistant foam,
Carbon dioxide,
Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons: High power water jet

5.2 Special exposure hazards arising from the substance itself, combustion products, resulting gases:

Dense black smoke occurs during the fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3 Special protective equipment for fire-fighters:

Provide a conveniently located respiratory protective device.

Additional information:

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Keep away from sources of ignition. Ventilate affected area. Do not inhale vapors.

See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not empty into drains or the aquatic environment. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods for cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

6.4 Reference to other sections

Observe protective provisions (see chapter 7 & 8)

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Avoid formation of flammable and explosive vapor concentrations in the air and exceeding the exposure limit values. Only use material in places where open light, fire and other sources of ignition can be kept away. Electrical equipment must be protected by meeting the accepted standard. Product may become electro statically charged. Ensure the grounding of containers, apparatus, pumps and suction equipment. Anti-static clothing including shoes are recommended.

Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eye and clothing. Do not inhale dust, particulates and spray mist when using this preparation. Avoid breathing swarf. When using it do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure – no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow legal protection and safety regulations.

Precautions against fire and explosion:

Vapors are heavier than air and will spread at floor level. Vapors from explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessel:

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep the container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorized people. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions:

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15° - 40°C. Protect from heat and direct sunlight. Keep the container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorized people. Store carefully closed containers upright to prevent any leaks.

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupation exposure limit values

NA

Additional information

Stated values are taken from the then applicable German TRGS 900 under the German VCI table for exposure limit values.

TWA (EC): Long term occupational exposure limit value

STEL (EC): Short term occupational exposure limit value

8.2 Exposure controls:

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory

protection must be used. Only use breathing apparatus with CE-label including the four-digit identification number.

Occupational exposure controls

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according to GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection:

For prolonged or repeated handling, the following glove material must be used: gloves made from nitril-/neoprenrubber. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin: Recommended protective gloves brand: DIN EN 374 Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection:

Wear closely fitting protective glasses in case of splashes.

Protective clothing:

Wear antistatic clothing of natural fibers (.ie. cotton) or heat-resistant synthetic fibers.

Preventive measures:

After contact clean skin thoroughly with water and soap oder use appropriate cleanser.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:

State of matter: Viscous Liquid
 Color: Pale Yellow
 Odor: Amine like

| Safety relevant basis data | unit | Method | Remark: |
|------------------------------|-------------------------|-----------|---------|
| Flash point: | > 150°C | DIN 53213 | |
| Ignition temperature (AIT): | NA | | |
| lower explosion limit: | NA | | |
| Upper explosion level: | NA | | |
| Vapor pressure (at 20°C): | NA | | |
| density (at 25 °C): | 0.975 g/cm ³ | | |
| Solubility in water (g/l): | Not soluble | | |
| pH (at 20 °C): 20 | n.a. | | |
| Viscosity (at 25 °C): | 41000 mPas | | |
| Solvent separation test (%): | NA | ADR/RID | |
| Solid content (%): | 100 % by weight | | |
| solvent content: | 0% by weight | | |
| organic solvents: | 0 % by weight | | |
| Water: | 0 % by weight | | |

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4 Conditions to avoid:

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5 Materials to avoid:

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.6 Hazardous decomposition products:

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides

11. TOXICOLOGICAL INFORMATION

No data on preparation itself available.

11.1 Information on toxicological effects

Acute toxicity

Toxicological data are not available

Irritant and corrosive effects

Toxicological data are not available

Sensitization

Toxicological data are not available

Specific target organ toxicity

Toxicological data are not available

Aspiration hazard

Toxicological data are not available

Acute toxicity

Toxicological data are not available

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the TWA-value can lead to health damage e.g. irritation of the mucus

membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, myasthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the effects through skin resorption. Repeated or prolonged Contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Summarized evaluation of the CMR properties:

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

12. ECOLOGICAL INFORMATION

Overall evaluation

There is no information available on the preparation itself.
Do not empty into drains or the aquatic environment.

12.1 Toxicity

Toxicological data are not available

12.2 Persistent and degradability

Toxicological data are not available

12.3 Bio accumulative potential

Toxicological data are not available

12.4 Mobility in soils

Toxicological data are not available

12.5 Results of PBT assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6 Other adverse effects

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Appropriate disposal/Product:

Recommendation:

Do not empty into drains or the aquatic environment. This material and its container must be disposed of in a safe way. Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

Control report for waste code/ waste marking according to EWC:

080409 - Waste adhesives and sealants containing organic solvents or other dangerous substances

Packaging:

Recommendation:

Clean containers may be recycled. Vessels not properly emptied are special waste.

14. TRANSPORT INFORMATION

14.1 UN Number 3082

14.2 UN proper shipping name

Land transport (ADR/RID) Environmentally hazardous substance, Liquid, N.O.S.

Sea transport (IMDG) Environmentally hazardous substance, Liquid, N.O.S.

Air transport (ICAO-TI/IATA-DGR) Environmentally hazardous substance, Liquid, N.O.S.

14.3 Transport hazard class(es) 9

14.4 Packing group III

14.5 Environment hazards

Land transport (ADR/RID)

Marine pollutant NA

14.6 Special precautions for users

Transport is always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advice on safe handling: see parts 6 – 8

Additional information

Land transport (ADR/RID) -
Tunnel restriction code

Sea transport (IMDG)
EmS-No. -

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable

15. REGULATORY INFORMATION

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

EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC guideline)

VOC-value (in g/L) ISO 11890-2: 000.000

VOC-value (in g/L) ASTM D 2369: 000.000

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juveniles according to the “juvenile work protection guideline”

(94/33/EC).

Other regulations, restrictions and prohibition regulations

15.2 Chemical Safety Assessment

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

16. ADDITIONAL INFORMATION

Wording of the R-phrases under paragraph 3:

Xn; R21 Harmful. Harmful in contact with skin.

C; Corrosive.

R43 May cause sensitization by skin contact.

R52-53 Harmful to aquatic life. May cause long-term adverse effects in the aquatic environment.

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