



Safety Data Sheet

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Loctite Epoxy Instant Mix 1 Minute Hardener

MSDS-No. : 248729

V001.0

Date of issue: 02.07.2015

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: Loctite Epoxy Instant Mix 1 Minute Hardener

Intended use: 2-Component epoxy adhesive

Supplier:

Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

| <u>Hazard Class</u> | <u>Hazard Category</u> | <u>Route of Exposure</u> |
|-----------------------------------|------------------------|--------------------------|
| Acute toxicity | Category 4 | Oral |
| Skin corrosion | Category 1B | |
| Serious eye damage/eye irritation | Category 1 | |

Hazard pictogram:



Signal word: Danger

Hazard statement(s): H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary Statement(s):

Prevention: P260 Do not breathe dust, fume, gas, mist, vapours and/or spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: 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 or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get immediate medical advice/attention.
P310 Immediately call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/container in accordance with national regulation.

Classification of material C - Corrosive

Risk phrases:

R22 Harmful if swallowed.
R34 Causes burns.

Safety phrases:

S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Dangerous Goods information:

Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Signal word:

HAZARDOUS

Section 3. Composition / information on ingredients

Identity of ingredients:

| Chemical ingredients | CAS-No. | Proportion |
|---|-----------|------------|
| 1,8-Diazabicyclo[5.4.0]undec-7-ene | 6674-22-2 | < 5 % |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine) | 3033-62-3 | < 5 % |
| non hazardous ingredients~ | | 60- 100 % |

Section 4. First aid measures

| | |
|---|---|
| Ingestion: | Do not induce vomiting. Have victim rinse mouth thoroughly with water. Get immediate medical attention. |
| Skin: | In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Seek medical attention from a specialist. |
| Eyes: | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention from a specialist. |
| Inhalation: | Move to fresh air. Keep warm and in a quiet place. Seek medical advice. |
| First Aid facilities: | Eye wash and safety shower Normal washroom facilities |
| Medical attention and special treatment: | Treat symptomatically. |

Section 5. Fire fighting measures

| | |
|--|---|
| Suitable extinguishing media: | Carbon dioxide, foam, powder Fine water spray |
| Improper extinguishing media: | Water spray jet |
| Decomposition products in case of fire:: | Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen. |
| Special protective equipment for fire-fighters: | Wear protective equipment. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). |
| Additional fire fighting advice: | In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains. |
| Hazchem code: | 2X |

Section 6. Accidental release measures

| | |
|-----------------------------------|---|
| Personal precautions: | Danger of slipping on spilled product. Ensure adequate ventilation. Avoid skin and eye contact. Wear impervious gloves and chemical splash goggles. |
| Environmental precautions: | Do not empty into drains / surface water / ground water. |
| Clean-up methods: | Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Dispose of contaminated material as waste according to Section 13. |

Section 7. Handling and storage

| | |
|---------------------------------------|---|
| Precautions for safe handling: | Gloves and safety glasses should be worn Avoid skin and eye contact. Ensure that workrooms are adequately ventilated. Avoid breathing vapors or mists of this product. |
|---------------------------------------|---|

Conditions for safe storage: Keep container tightly sealed.
Store in a cool, dry, well-ventilated area.
Protect from direct sunlight.
Temperatures between + 5 °C and + 35 °C

Section 8. Exposure controls / personal protection

National exposure standards:

None

Engineering controls: Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

Eye protection: For eye protection, use tightly fitted safety goggles and a face-shield

Skin protection: Use of protective coveralls and long sleeves is recommended.
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.
nitrile rubber

Respiratory protection: If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance: Yellow
Liquid
Odor: Sulfur
Flash point: 121 - 204 °C (249.8 - 399.2 °F)
Solubility in water: Insoluble (23 °C)

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Heat, flames, sparks and other sources of ignition.
Excessive heat.
Store away from incompatible materials.

| | |
|--|---|
| Incompatible materials: | Acids. Oxidizing agents. Alkalis. |
| Hazardous decomposition products: | Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen. |

Section 11. Toxicological information

Health Effects:**Ingestion:**

Harmful if swallowed.
Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin:

Corrosive to skin.
Symptoms may include redness, burning, drying, cracking and skin burns.

Eyes:

Causes serious eye damage.
Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Inhalation:

Inhalation of vapors or mist can cause severe irritation, tissue and scarring of the respiratory tract.

Acute toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|--|---------------|----------------|-------------------------|------------------|---------|--|
| N,N,N',N'-Tetramethyl- 2,2'-oxybis(ethylamine) 3033-62-3 | LD50 | 609 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) BASF Test |
| | LC50 | 3.3 - 4.4 mg/l | inhalation | | rat | |

Skin corrosion/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|--|----------------|------------------|---------|--------|
| N,N,N',N'-Tetramethyl- 2,2'-oxybis(ethylamine) 3033-62-3 | not irritating | 60 min | | |

Serious eye damage/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|--|---------------------|------------------|---------|--------|
| N,N,N',N'-Tetramethyl- 2,2'-oxybis(ethylamine) 3033-62-3 | slightly irritating | 90 min | | |

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Toxicity:

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|--|---------------|------------------|----------------------------|------------------|---|--|
| 1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2 | LC50 | > 100 - 220 mg/l | Fish | 96 h | Leuciscus idus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2 | EC50 | 50 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine) 3033-62-3 | LC50 | 124 mg/l | Fish | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine) 3033-62-3 | EC50 | 102 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine) 3033-62-3 | EC50 | 24 mg/l | Algae | 72 h | Pseudokirchnerella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine) 3033-62-3 | NOEC | 1.83 mg/l | Algae | 72 h | Pseudokirchnerella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Persistence and degradability:

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|--|--------|-------------------------|---------------|--|
| 1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2 | | aerobic | < 20 % | OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test) |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine) 3033-62-3 | | aerobic | 2 % | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |

Bioaccumulative potential / Mobility in soil:

| Hazardous components CAS-No. | LogKow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|--|--------|----------------------------------|------------------|---------|-------------|--|
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine) 3033-62-3 | -0.339 | | | | 20 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

Section 13. Disposal considerations

Waste disposal of product: Dispose of as hazardous waste in compliance with local and national regulations. Do not allow product to enter sewer or waterways.

Disposal for uncleaned package: Dispose of as hazardous waste in compliance with local and national regulations.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

UN no.: 3267

Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Bis(2-Dimethylaminoethyl)ether,1,8-Diazabicyclo-5.4.0-undec-7-en)

Class or division: 8

Packing group: II

Hazchem code: 2X

Emergency information: Refer to the Dangerous Goods - Initial Emergency Response Guide HB 76.

Marine transport IMDG:

UN no.: 3267

Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Bis(2-Dimethylaminoethyl)ether,1,8-Diazabicyclo-5.4.0-undec-7-en)

Class or division: 8

Packing group: II

EmS: F-A ,S-B

Seawater pollutant: -

Air transport IATA:

UN no.: 3267

Proper shipping name: Corrosive liquid, basic, organic, n.o.s. (Bis(2-Dimethylaminoethyl)ether,1,8-Diazabicyclo-5.4.0-undec-7-en)

Class or division: 8

Packing group: II

Packing instructions (passenger) 851

Packing instructions (cargo) 855

Section 15. Regulatory information

SUSMP Poisons Schedule 5

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

Reason for issue: First issue. involved chapters: 1 - 16

Disclaimer:

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