1. Substance/preparation and company identification

**Laromer® PR 9000 (old: Laromer® LR 9000)**

Use: Coating raw material for industrial applications

**Manufacturer/supplier:**
BASF Australia Limited (ABN 62 008 437 867)
Level 12, 28 Freshwater Place Southbank
Victoria 3006, AUSTRALIA
Telephone: +61 3 8855-6600
Telefax number: +61 3 8855-6511

**Emergency information:**
BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

2. Hazard identification

HAZARDOUS SUBSTANCE, NON-DANGEROUS GOOD
Irritating to eyes and skin.
May cause sensitization by inhalation and skin contact.

Do not breathe vapour/spray.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable gloves.
3. Composition/information on ingredients

Chemical nature

2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,6-diisocyanatohexane
CAS Number: 78567-28-9

modified

Hazardous ingredients:

1,6-hexamethylene diisocyanate
Content (W/W): < 0.5 %
CAS Number: 822-06-0
Hazard symbol(s): T
R-phrase(s): 23, 36/37/38, 42/43

Hexane, 1,6-diisocyanato-, homopolymer
Content (W/W): >= 5 % - <= 10 %
CAS Number: 28182-81-2

The wording of the hazard symbols and R-phrases is specified in section 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

General advice:
Immediately remove contaminated clothing.

If inhaled:
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:
Wash thoroughly with soap and water.

On contact with eyes:
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:
Rinse mouth immediately and then drink plenty of water, seek medical attention.

Note to physician:
Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.
5. Fire-Fighting Measures

Suitable extinguishing media:
- water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:
- water jet

Specific hazards:
- harmful vapours
- Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:
- Wear a self-contained breathing apparatus.

Further information:
- The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:
- Use personal protective clothing. Breathing protection required.

Environmental precautions:
- Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:
- For large amounts: Pump off product.
- For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Handling
- No special measures necessary provided product is used correctly.

Protection against fire and explosion:
- Heated containers should be cooled to prevent polymerization. Take precautionary measures against static discharges.

Storage
- Further information on storage conditions: Keep at temperature not exceeding 30 °C. Keep container tightly closed and dry. Protect contents from the effects of light.

- Protect from temperatures above: 60 °C
8. Exposure controls and personal protection

Components with occupational exposure limits

1,6-hexamethylene diisocyanate, 822-06-0;
TWA value 0.02 mg/m³ (OEL (AU))
STEL value 0.07 mg/m³ (OEL (AU))

Personal protective equipment

Respiratory protection:
Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e.g. EN 14387 Type A)

Hand protection:
Chemical resistant protective gloves
Suitable materials short-term contact and/or splashes (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374)
butyl rubber (butyl) - 0.7 mm coating thickness
nitrile rubber (NBR) - 0.4 mm coating thickness
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

9. Physical and Chemical Properties

Form: liquid
Colour: colourless to slightly yellow
Odour: faint odour

pH value: of very low solubility, not applicable
Freezing point: not determined
Boiling point: not applicable
Flash point: > 100 °C (DIN 51758)
Flammability: not flammable
Lower explosion limit: For liquids not relevant for classification and labelling, the lower explosion point may be 5 - 15 °C below the flash point.
Upper explosion limit: For liquids not relevant for classification and labelling.
Ignition temperature: > 200 °C (DIN 51794)
Self ignition: not self-igniting
Fire promoting properties: not fire-propagating
Vapour pressure: 0.0003 mbar (90 °C)
Density: 1.154 g/cm³ (23 °C)
Relative density: No data available.
Relative vapour density (air): not determined
Solubility in water: sparingly soluble
Partitioning coefficient n-octanol/water (log Pow): not applicable for mixtures
Surface tension: No data available.
Viscosity, dynamic: 1,019 mPa.s (23 °C) (DIN 53018)

10. Stability and Reactivity

Conditions to avoid:
See MSDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if used correctly.

Substances to avoid:
No substances known that should be avoided.

Hazardous reactions:
The product can polymerize if the shelf life or storage temperature are greatly exceeded. Heat develops during polymerization. Reacts with peroxides and other radical components.
The product is stabilized against spontaneous polymerization prior to despatch.

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

**Acute toxicity**

Assessment of acute toxicity:
Virtually nontoxic after a single ingestion.

LD₅₀ rat (oral): > 2,000 mg/kg (OECD Guideline 423)

LC₅₀ rat (by inhalation): 4 h not determined

LD₅₀ rat (dermal): not determined

**Irritation**

Primary skin irritation rabbit: Irritant. (OECD Guideline 404)

Primary irritations of the mucous membrane rabbit: Irritant. (OECD Guideline 405)

**Assessment other acute effects**

Remarks: No data available.

**Sensitization**

Mouse Local Lymph Node Assay (LLNA) mouse: sensitizing (OECD Guideline 429)

**Repeated dose toxicity**

Assessment of repeated dose toxicity:
No data available.

**Genetic toxicity**

Assessment of mutagenicity:
No data available concerning mutagenic effects.

**Carcinogenicity**

Assessment of carcinogenicity:
No data available.

**Reproductive toxicity**
Assessment of reproduction toxicity:
No data available.

Developmental toxicity

Assessment of teratogenicity:
No data available.

12. Ecological Information

Ecotoxicity

Toxicity to fish:
LC50 (96 h), Fish
not determined

Aquatic invertebrates:
EC50 (48 h) > 100 mg/l, Daphnia pulex (OECD Guideline 202, part 1, static)
Nominal concentration. The product has low solubility in the test medium. An eluate has been tested.

Aquatic plants:
EC50 (72 h), algae
not determined

Microorganisms/Effect on activated sludge:
EC20 > 1,000 mg/l, activated sludge, domestic (OECD Guideline 209)
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Chronic toxicity to fish:
No data available.

Chronic toxicity to aquatic invertebrates:
No data available.

Assessment of terrestrial toxicity:
No data available concerning terrestrial toxicity.

Mobility

Assessment transport between environmental compartments:
No data available.

Persistence and degradability

Elimination information:
10 - 20 % CO2 formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic) Not readily biodegradable (by OECD criteria).

Bioaccumulation potential

Assessment bioaccumulation potential:
The product has not been tested.
Additional information

Add. remarks environm. fate & pathway:
Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:
Do not release untreated into natural waters. The local regulations on waste-water treatment must be followed.

13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:
Uncontaminated packaging can be re-used.
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Domestic transport: Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO
Not classified as a dangerous good under transport regulations

15. Regulatory Information

Poisons Schedule: Not scheduled

Regulations of the European union (Labelling)

EEC Directives:

Hazard symbol(s)
Xn Harmful.

R-phrase(s)
**R36/38** Irritating to eyes and skin.  
**R42/43** May cause sensitization by inhalation and skin contact.  

**S-phrase(s)**  
**S23.3** Do not breathe vapour/spray.  
**S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**S37** Wear suitable gloves.  

Hazard determining component(s) for labelling: HEXAMETHYLENE-1,6-DIISOCYANATE, POLYFUNCTIONAL ISOCYANATE  

**Other regulations**  

**Registration status:**  
AICS, AU blocked / not listed  

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**16. Other Information**  

The product is used mainly as a hardener in coating materials or adhesives. The handling of coating materials or adhesives containing reactive polyisocyanates and residual monomeric HDI requires appropriate protective measures referred to in this safety data sheet. These products may therefore be used only in industrial or trade applications. They are not suitable for use in homeworker (DIY) applications.  

Full text of hazard symbols and R-phrases if mentioned as hazardous components in section 3:  
**T** Toxic.  
**23** Toxic by inhalation.  
**36/37/38** Irritating to eyes, respiratory system and skin.  
**42/43** May cause sensitization by inhalation and skin contact.  

Vertical lines in the left hand margin indicate an amendment from the previous version.  

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.