

MATERIAL SAFETY DATASHEET

COMMERCIAL NAME

CONIPUR 259

01. Product & Company Identification

Produced by

: Feb Limited, Albany House, Swinton Hall Road,
Swinton, Manchester, M27 4DT, Great Britain -
Tel: +44-61-794 7411 - Fax: +44-61-793 4529

02. Composition/information on ingredients

Chemical characterization

Aliphatic isocyanat prepolymer with slight monomeric parts Contains solvents.

Hazardous components

ISOPHORONE DIISOCYANATE ; CAS-No. : 4098-71-9

Percentage : 0.1 - 0.5 %

Classification : T ; R 23 R 42/43 Xi ; R 36/37/38

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS-No. : 64742-95-6

Percentage : 25 - 50 %

03. Hazards identification

Hazard designation

Flammable

04. First-aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

After inhalation

Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing/no breathing: artificial respiration. Unconsciousness: lateral position - call a physician.

After skin contact

Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion

Contact a doctor immediately. Keep at rest. Do not induce vomiting.

05. Fire-fighting measures

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Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. During fires carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide may be given off.

Special protective equipment

Appropriate breathing apparatus may be required.

Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

06. Accidental release measures

Personal precautions

Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

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

Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Subsequently put in the waste container. Do not seal (CO₂ may be given off).

07. Handling and storage

Information for safe handling

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Provide for fresh air ventilation. Do not inhale the vapour. Avoid contact with skin and eyes. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws.

Information about protection against explosions and fires

Keep away from ignition sources - No smoking.

Requirements to be met by storerooms and containers

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Containers should be kept dry and sealed.

Storage class (VCI) : 3A

08. Exposure controls and personal protection

Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of vapours or particles below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Allergics and persons who have problems with the respiration tract are not recommended to work with this product.

Components with critical values that require monitoring at the workplace (exposure limits)

AROMS.-RICH HYDROCARBON-MIXTURE (GERMAN TRGS 900, GROUP 3)

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 50 ppm / 200 mg/m³
Category : 4
Version date : 01.02.2000

ISOPHORONE DIISOCYANATE ; CAS-No. : 4098-71-9

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 0.01 ppm / 0.09 mg/m³
Category : = 1 =
Remarks : S
Version date : 01.02.2000

Personal protective equipment

Respiratory protection

By spraying: air fed respirator. By other operations than spraying: in well ventilated areas, airfed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

Hand protection

Protective gloves, PVC or rubber. , e.g. Butyl rubber After washing hands replace lost skin fat by fat containing skin creams.

Eye protection

Use safety glasses.

Body protection

Light protective clothing.

09. Physical and chemical properties

Image

Form : Liquid.

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Colour : Coloured.
Odour : Like solvent.

Relevant safety data

| | | | | |
|----------------------------------|--------------|-----|-----------------------|-----------|
| Boiling point / range : | (1013 hPa) | ca. | 163 - 178 °C | |
| Flash point : | | ca. | 43 °C | DIN 53213 |
| Vapour pressure : | (50 °C) | ca. | 28 hPa | |
| Density : | (20 °C) | ca. | 0.9 g/cm ³ | |
| Solvent-separation test : | (20 °C) | < | 3 % | |
| Viscosity : | (20 °C) | | 600 mPa.s | |

10. Stability and reactivity

Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Exothermic reaction with amines and alcohols. In contact with water (moisture) CO₂ is formed which leads to an excess pressure in closed containers.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Experience on practice

Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL (=Occupational Exposure Limit). Repeated exposure may lead to permanent respiratory disability. Delayed reactions possible (breathing problems, coughs, asthma) Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea.

Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (88/379/EEC).

12. Ecological information

Is converted in connection with water in a solid, insoluble and inert polyurea, liberating CO₂.

Additional ecological information

General ecological information

Do not empty into waters or drains.

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13. Disposal considerations

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

Product

Recommendation

In accordance with local official regulations. Pass on to an appropriate incinerating plant or depository or recycling. Residue can be made harmless by reacting with a mixture of isopropanol, ammonia and water. Reaction promoted by detergents and water-soluble solvent.

Waste key

Disposal Code according to European Waste Catalog (EWC) please specify according to the use of product, e.g.: 080102 Waste from production, formulation, sales and application of paints and varnishes. Old paints and varnishes, not containing halogenated hydrocarbons.

Switzerland: Disposal code (VVS): 1620 Waste from paints, varnishes and adhesives with organic phase or solvent

14. Transport information

Land transport ADR/RID and GGVS/GGVE

Classification

| | | | |
|---------------------------|--------|------------------------|------|
| Class : | 3 31 c | Kemlercode : | 30 |
| Substance number : | 1866 | Margin-Number : | 2301 |

Containers with a capacity \leq 450 l are subject only to the regulations of Rn 2314 (remarks under E of Rn 2301).

Proper shipping name

RESIN SOLUTION

Packaging

Tremcard : 3

Maritime transport IMDG/GGVSea

Classification

| | | | |
|---------------------|------|-----------------------|------|
| IMDG-Code : | 3.3 | IMDG - Page : | 3379 |
| UN number : | 1866 | Marine Poll. : | - |
| MFAG-Table : | 310 | EmS number : | 3-05 |

Proper shipping name

RESIN SOLUTION

Packaging

Packaging group : III
Tremcard : 3

Air transport ICAO-TI and IATA-DGR

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Classification

Class : 3
UN number : 1866

Proper shipping name

RESIN SOLUTION

Packaging

Packaging group : III
Tremcard : 3

15. Regulatory information

Classification according to EEC directives

R-phrases

10 Flammable

S-phrases

51 Use only in well-ventilated areas.

Special designation for certain preparations

91 Contains isocyanates. See information provided by the manufacturer

National regulatory information

Germany: Safety Instruction Code of german occupational safety and health organisation.
Berufsgenossenschaften der Bauwirtschaft: GISCODE PU 50

Regulation on inflammable liquids (VbF)

VbF-Class : Not dangerous according to VbF

Emission control act ("TA-Luft")

Sum organic substances class I : < 5 %

Sum organic substances class II : 45 - 50 %

Water pollution classification

Class : 2 according VwVwS

Other regulations

Observe UVV for handling of painting material (VBG 23). See also "recommendations for the handling of aromatic isocyanates". (BG-chemistry MO44).

16. Other information

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Areas of use / restrictions on use recommended by the manufacturer

Coating material - use only according to the Technical Information of the product.

Further information

The details in this material safety data sheet satisfy national and EU legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 16 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

Relevant changes

02. Hazardous components · 14. Substance releasing the danger · 14. Maritime transport IMDG/GGVSea · 14. Substance releasing the danger · 14. Substance releasing the danger · 15. Danger symbol and danger designation · 15. R-phrases · 15. S-phrases · 15. Emission control act ("TA-Luft")

R-Phrases of components

| | |
|----------|--|
| 23 | Toxic by inhalation |
| 36/37/38 | Irritating to eyes, respiratory system and skin |
| 42/43 | May cause sensitization by inhalation and skin contact |

APPROVED :M BAXTER

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These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
