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1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information CHEMTREC: 1-800-424-9300 BASF HOTLINE: 1-800-832-HELP (4357)

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Hazardous to the aquatic environment - acute

Label elements

Pictogram:
Environment

Signal Word: Warning

Hazard Statement:

H400 Very toxic to aquatic life.

Precautionary Statements (Prevention):

P273 Avoid release to the environment.

Precautionary Statements (Response):
P391 Collect spillage.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or

special waste collection point.

Hazards not otherwise classified

No applicable information available.

According to Regulation 1994 OSHA Hazard Communication Standard;

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29 CFR Part 1910.1200

Emergency overview HARMFUL IF INHALED

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION CONTAINS MATERIAL THAT MAY CAUSE ALLERGIC RESPIRATORY REACTION MAY CAUSE ALLERGIC OR ASTHMATIC SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.

INGESTION MAY CAUSE GASTRIC DISTURBANCES

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number Weight % Chemical name 1344-37-2 25.0-50.0 % lead chromate

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number Weight % Chemical name 98-0169 10.0 - 15.0 % Blocked aromatic polyisocyanate

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:

If in eyes:

Flush with copious amounts of water for at least 15 minutes. Hold eyelids open to facilitate rinsing. If irritation develops, seek medical attention. Seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting due to aspiration hazard.

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Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Immediate medical attention is required.

Most important symptoms and effects, both acute and delayed

Symptoms:

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special $\mbox{treatment}$ needed

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
Dry extinguishing media
Carbon dioxide
Foam
Water spray

Unsuitable extinguishing media for safety reasons: water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Vapors and/or decomposition products are irritants and/or toxic. If product is heated above decomposition temperatures, acrid smoke and fumes will be released.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Vapors are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition. Flash fire may occur.

Remove product from areas of fire or otherwise cool sealed containers with water in order to avoid pressure build-up due to heat.

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Do not flood burning material with water due to potential spreading of fire.

Contain contaminated water/firefighting water. Run-off water from fire may cause pollution.

Notify proper authorities.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear suitable personal protective clothing and equipment.

Ensure adequate ventilation.

Avoid prolonged inhalation.

Avoid contact with skin and eyes.

Environmental precautions

Do not discharge into drains/surface waters/groundwater. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities.

Methods and material for containment and cleaning up $\mbox{Dike spillage.}$

Shovel into open container.

7. Handling and Storage

Precautions for safe handling

Ensure adequate ventilation.

Do not puncture, drop or slide containers.

Handle and open container with care.

Avoid contact with the skin, eyes and clothing.

WARNING: Empty containers may still contain hazardous residue.

Do not apply to hot surfaces.

Proper ventilation and respiratory protection is required when sanding, flame cutting, welding or brazing coated surfaces.

Protection against fire and explosion:

Exhaust fans should be explosion proof.

Sealed containers should be protected against heat as this results in pressure build-up.

Risk of explosion if heated under confinement.

Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances.

Segregate from oxidizing agents.

Segregate from strong bases.

Segregate from strong acids.

Further information on storage conditions:

Keep container tightly closed.

Protect from direct sunlight.

Protect from temperatures above 50 C. Store protected against freezing. Consult local fire marshal for storage requirements. Slow non-hazardous polymerization possible when at or exceeding maximum temperatures.

Storage stability:

Storage temperature: 25-50 C

8. Exposure Controls and Personal Protection

Components with occupational exposure limits No occupational exposure limits known.

Advice on system design:

General mechanical ventilation should comply with OSHA 1910.94.

Personal protective equipment

Respiratory protection:

Respiratory protection may not be required under normal operating conditions if adequate ventilation is provided.

Wear respiratory protection if ventilation is inadequate.

Wear NIOSH-certified (or equivalent) organic vapor respirator.

Particulate filters should be added during spray operations.

Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Use appropriate chemically resistant gloves as determined by an evaluation of glove performance characteristics and the hazards and potential hazards identified, including but not limited to butyl, natural and synthetic rubber, nitrile, or neoprene.

Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen based on activity level and exposure.

General safety and hygiene measures:

Employee education and training in the safe use and handling of isocyanates is required under the OSHA Communication Standard. Work place should be equipped with a shower and eye wash.

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Contact lenses should not be worn.

Remove contaminated clothing.

Contaminated equipment or clothing should be cleaned after each use or disposed of.

Hands and/or face should be washed before breaks and at the end of

the shift.

9. Physical and Chemical Properties

Form: liquid

Odour: Mild Solvent

Odour threshold: No applicable information available.

Colour: Off-white/tan pH value: 6.00 - 9.00

Melting temperature: No applicable information available. Boiling range: 212 - 338 °F / 100.0 - 170.0 °C Sublimation temperature: No applicable information available.

Flash point: > 200 °F (> 93.3 °C)

+/- 3 °F Penske Martin Closed Cup (measured)

Flammability: No applicable information available.

Lower explosion limit: 1.1 %(V)
Upper explosion limit: 14.4 %(V)

Autoignition: No applicable information available.

Vapour pressure: 17.50 mmHg (20 °C)
Density: 8.88 Lb/USg CALC

Relative density: 1.06

Vapour density: heavier than air

Partitioning coefficient

n-octanol/water (log Pow): No applicable information available. Thermal decomposition: No applicable information available. Viscosity, dynamic: No applicable information available.

Viscosity, kinematic: > 20.60 mm2/s

Solubility in water:
Solubility (quantitative):
Solubility (qualitative):
Solubility (qualitative):
Evaporation rate:

No applicable information available.
No applicable information available.

10. Stability and Reactivity

Reactivity

Reactivity:

No applicable information available.

Chemical stability

Chemical stability:

The product is chemically stable.

Possibility of hazardous reactions

Hazardous reactions:

No applicable information available.

Conditions to avoid

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Incompatible materials

Substances to avoid: strong bases strong oxidizing agents strong acids

Hazardous decomposition products

Decomposition products: carbon monoxide carbon dioxide nitrogen oxides hydrogen cyanide

Thermal decomposition:
No applicable information available.

11. Toxicological Information

Primary routes of exposure Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity:
No applicable information available.

Oral

Acute oral toxicity:

Inhalation

Acute inhalation toxicity:

Dermal

Acute dermal toxicity:

Assessment other acute effects

Assessment of STOT single:
No applicable information available.

Irritation / corrosion

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Assessment of irritating effects:
No applicable information available.

Sensitization

Assessment of sensitization:
No applicable information available.

Aspiration hazard No applicable information available.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No applicable information available.

Genetic toxicity

Assessment of mutagenicity:
No applicable information available.

Carcinogenicity

Assessment of carcinogenicity:
No applicable information available.

Reproductive toxicity

Assessment of reproduction toxicity: No applicable information available.

Development

Assessment of teratogenicity:
No applicable information available.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Medical conditions aggravated by overexposure The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing.

Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates, further exposure is not recommended.

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Medical supervision of all employees who handle or come into contact with isocyanates is recommended.

12. Ecological Information

No applicable information available.

13. Disposal Considerations

Waste disposal of substance

Dispose of in accordance with national, state and local regulations.

The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste. It is the waste generators responsibility to determine if a particular waste is hazardous under RCRA.

Do not discharge into drains/surface waters/groundwater. Incinerate or dispose of in a RCRA licensed facility. Do not incinerate closed containers.

Container disposal

Dispose of in accordance with national, state and local regulations.

Do not reuse containers without commercial reconditioning.

14. Transport Information

Reference Bill of Lading

Land transport USDOT

Sea transport IMDG

Air transport IATA/ICAO

15. Regulatory Information

Federal Regulations

Registration status

TSCA, US released / listed

EPCRA 313

State regulations

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State RTK

CAS Number Chemical name

7732-18-5 water

99-0163 Epoxy resin
98-0169 Blocked aromatic polyisocyanate

25322-69-4 polypropylene glycol

5131-66-8 propylene glycol monobutyl

ether

CA Prop. 65

WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

HMIS III rating

Health: 2¤ Flammability: 1 Physical hazard: 0

16. Other information

Full disclosure Chemical name

CAS Number Content (weight %)

propylene glycol monobutyl ether 5131-66-8 0-5 water 7732-18-5 50-60

nolunronulono alucol

polypropylene glycol

25322-69-4 0 - 5 Blocked aromatic polyisocyanate

98-0169 5 - 15

Epoxy resin

99-0163 20 - 30

SDS prepared by: BASF NA Product Regulations

SDS prepared on 18.03.2015

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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