

SAFETYDATA SHEET

BRENNSPERSE 6081

Print Date: 03/08/2013

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product information

Commercial Product Name
BRENNSPERSE 6081

Use of the Substance/Mixture
scale control

Company Identification

Brenntag Northeast
81. W. Huller Lane
Reading, PA 19605
Phone: 610-926-4151

Emergency telephone number

Carechem 24 International: +44 (0) 1235 239 670

2. HAZARDS IDENTIFICATION

Emergency Overview: Severe eye irritant

Skin: Prolonged or repeated contact may irritate and cause dermatitis.

Eyes: Causes severe eye irritation.

Inhalation: The breathing of vapours may cause: Respiratory irritation

Ingestion: Not considered a potential route of exposure. Ingestion can cause irritation of the mouth, throat and esophagus.

Chronic exposure: No known carcinogenic or other chronic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Sodium salt of Phosphonomethylated diamine, Aqueous solution

Hazardous or Regulated Components

| CAS-number | Chemical name of the substance | Concentration |
|------------|---------------------------------------------------------|---------------|
| | Sodium salt of polyamino polyether methylenephosphonate | 20 - 30 % |

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4. FIRST AID MEASURES

Inhalation

Move to fresh air. If symptoms persist, call a physician.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion

Rinse mouth with water. Few gulps of water can be drunk to reduce irritation. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water, Carbon dioxide (CO₂), Foam, Dry powder

Specific hazards during firefighting

Burning may produce toxic and irritant gases.
carbon oxides (CO_x), phosphorous oxides

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

Specific methods

Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. For personal protection see section 8. Stop the leakage if possible. Ensure adequate ventilation.

Environmental precautions

Should not be released into the environment.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Shovel or sweep up remaining material. Transfer into suitable containers for disposal. Residues and small spillages may be washed away with water and detergent. Dispose of in compliance with local and national regulations.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin, eyes and clothing. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. For personal protection see section 8.

Storage

Store in original container. Keep tightly closed.

Materials to avoid:

Bases, Strong oxidizing agents

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values

None known.

Exposure controls

Occupational exposure controls

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

Respiratory protection

Breathing apparatus needed only when aerosol or mist is formed.

Hand protection

e.g. butylrubber-, neoprene-, nitrile rubber- or polyvinylchlorid gloves. Permeability tests are not available for this product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Eye protection

Tightly fitting safety goggles or safety glasses with side-shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information (appearance, odour)

| | |
|----------------|---------------|
| Physical state | liquid, |
| Colour | clear, yellow |
| Odour | mild |

Important health safety and environmental information

| | |
|-----------------------------|----------------------------------------|
| Boiling point/boiling range | > 100 °C |
| Flash point | > 93.3 °C |
| Explosive properties: | |
| Density | 1.14 - 1.21 g/cm ³ (25 °C) |
| Water solubility | soluble |
| Viscosity: | |
| Viscosity, dynamic | no data available |
| Evaporation rate | < 1 (n-butyl acetate = 1) |

Other data

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10. STABILITY AND REACTIVITY

Conditions to avoid

Stable under normal conditions.

Materials to avoid

Bases, Strong oxidizing agents

Hazardous reactions :

Hazardous polymerisation does not occur.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.
carbon oxides (COx), nitrogen oxides (NOx), phosphorous oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Remarks:No toxicity studies have been conducted on this product.

Irritation and corrosion

Skin:
Prolonged skin contact may cause skin irritation.

Eyes:
Irritating to eyes.

Sensitization

This product is not expected to be a sensitizer.

Long term toxicity

Carcinogenicity

None of the components in this product are listed as carcinogens by IARC, NTP or ACGIH.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity

LC50/96 h/Pimephales promelas (fathead minnow): > 1,000 mg/l
LC50/48 h/Daphnia magna (Water flea): > 1,000 mg/l
Not toxic to aquatic organisms.

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Toxicity to other organisms

no data available

Mobility

Water solubility: soluble

The environmental fate was estimated using a level III fugacity model embedded in the EPI Suite™, provided by the US EPA.

The product is expected to distribute to air (<5 %), water (30-50 %) and soil (30-50 %).

Persistence and degradability

Biological degradability:

no data available

Bioaccumulative potential

The product is not expected to bioaccumulate.

Other adverse effects

13. DISPOSAL CONSIDERATIONS

| | |
|------------------------|----------------------------------------------------------------------------------------------------------|
| Product | Must be disposed of in accordance with local and national regulations. EPA Hazardous Waste - NO |
| Contaminated packaging | Must be disposed of in accordance with local and national regulations. Rinse package before disposal. |

14. TRANSPORT INFORMATION

Land transport

Not classified as dangerous in the meaning of transport regulations.

Sea transport

Not classified as dangerous in the meaning of transport regulations.

Air transport

Not classified as dangerous in the meaning of transport regulations.

Special precautions for user

15. REGULATORY INFORMATION

SARA Title III Section 311 Categories

Immediate (Acute) Health Effects: Yes;

Delayed (Chronic) Health Effects: No;

Fire Hazard: No;

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Sudden Release Of Pressure Hazard: No;
Reactivity Hazard: No;

SARA 313 - Specific Toxic Chemical Listings
None Present ()

WHMIS Classification
Not controlled

D2B Toxic Material Causing Other Toxic Effects

California Proposition 65

This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproduction harm.
Formaldehyde (50-00-0)

Notification status

- :
- :
- :
- : All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.
- : All components of this product are NOT included on the Canada Domestic List (DSL) inventory.
- : This product's Taiwan Toxic Chemical Substances Control Act Inventory status has NOT been determined.

Miscellaneous Information

16. OTHER INFORMATION

HMIS Rating
Health: 2
Flammability: 1
Reactivity: 0

NFPA Rating
Health: 2
Fire: 1

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Reactivity: 0
Special:

MSDS preparatory statement

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.