

Material Safety Data Sheet

BLAZETAMER380

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Infosafe No. CV44J US/eng/C
Issued Date 2011/04/21

Supplier

BIOCENTRAL LABORATORIES LTD
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Product Use

A Class fire suppression and retarding liquid. The use of the product involves significant dilution with water (1:150 to 1:1500).

2. COMPOSITION/INFORMATION ON INGREDIENTS

The product is a polyacrylamide copolymer emulsion, containing surfactants and performance additives.

Name	CAS	Proportion
Ingredients determined not to be hazardous, including water.		100%

3. HAZARDS IDENTIFICATION

Hazard Classification

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chronic Effects

Prolonged or repeated exposure to this material may result in irritation to the skin, and aggravate existing respiratory disorders.

Inhalation

Inhalation of vapours or mists may cause irritation to the mucous membranes and upper airways.

Ingestion

May cause irritation to the mouth, oesophagus and stomach. Symptoms may include nausea and vomiting.

Skin

May cause mild irritation in contact with the skin, which can result in redness, itchiness and possible dermatitis.

Eye

May cause transient eye irritation resulting in redness, swelling, stinging and lacrimation.

Environmental Hazards

Based on component data the product is not expected to be harmful to the environment.

Other Information

MAY CAUSE MILD EYE IRRITATION. MAY CAUSE SLIGHT SKIN IRRITATION.

HMIS rating: Health – 1, Flammability – 0, Reactivity – 0

4. FIRST AID MEASURES

Inhalation

If inhaled, remove to fresh area. Keep at rest until recovered. If symptoms persist seek medical attention.

Ingestion

Do NOT induce vomiting. Wash out mouth and lips thoroughly with water. Seek medical attention.

Skin

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If symptoms develop seek medical attention.

Eye

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed off completely. Seek medical attention.

First Aid Facilities

Normal washroom facilities.

Advice to Doctor

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Fire Fighting Measures

This product quickly extinguishes the fire. Greatly reduces re-ignition.

Flash Point

Not applicable, water-based emulsion.

Flammable Limits UEL

Not applicable

Flammable Limits LEL

Not applicable

Flammability

Non-combustible liquid.

Hazardous Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes including oxides of carbon and oxides of sulphur.

Precautions in connection with Fire

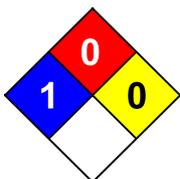
Water spray may be used to cool down heat-exposed containers.

Protective Equipment

Fire fighters should wear full protective clothing and self-contained breathing apparatus if required.

Other Information

NFPA Rating.



6. ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing to prevent exposure. If possible contain the spill.

Place absorbent material onto spillage. Collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.

Personal Precautions

Spills produce extremely slippery surfaces on non porous surfaces only.

7. HANDLING AND STORAGE

Handling

Wear appropriate protective equipment to prevent inhalation and eye exposure. Keep containers closed when not in use. Practice good personal hygiene, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

Storage

Non combustible liquid. Store in a cool, dry well-ventilated area away from heat and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Biological Limit Values

No biological limit allocated.

Exposure Limits

No exposure standards have been established for this material.

Respiratory Protection

In case of insufficient ventilation, suitable respiratory equipment should be worn.

Eye Protection

Where eye contamination is likely the use of chemical goggles, safety glasses with side shield protection or face shield as appropriate should be worn.

Hand Protection

Suitable impervious gloves, e.g. neoprene, nitrile or laminated film are recommended.

Footwear

Safety boots as required.

Body Protection

Suitable impervious protective clothing should be worn when handling large quantities.

Eng. Controls

Use with good general ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White milky liquid.
Odour	Mild odour.
Melting Point	32°F approx.
Boiling Point	>212°F
Solubility in Water	Miscible with water.
Specific Gravity (H₂O=1)	0.998
pH Value	6.4 (as supplied)
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Flash Point	Not applicable, water-based emulsion.
Flammability	Non-combustible liquid.

Flammable Limits - Lower

Not applicable

Flammable Limits - Upper

Not applicable

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Decomposition may lead to the release of toxic and/or irritating fumes including carbon monoxide and sodium oxide and oxides of sulphur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Acute Oral Toxicity:

LD50 >5050 mg/kg

Acute Dermal Toxicity:

LD50 >2020 mg/kg

Primary Eye Irritation - Nonwashed Eyes:

For the Concentrate: Mildly irritating. Toxicity category IV. Irritation score: 5.3

For the Mixed Fire Chemical: Practically non-irritating. Toxicity category IV. Irritation score: 0.7

Primary Eye Irritation - Washed Eyes:

For the Concentrate: Minimally irritating. Toxicity category IV. Irritation score: 5.3

For the Mixed Fire Chemical: Practically non-irritating. Toxicity category IV. Irritation score: 1.3

Primary Dermal Irritation:

For the Concentrate: Slight irritant. Toxicity category III

For the Mixed Fire Chemical: Slight irritant. Toxicity category IV

Inhalation

Inhalation of vapours or mists may cause irritation to the mucous membranes and upper airways.

Ingestion

May cause irritation to the mouth, oesophagus and stomach. Symptoms may include nausea and vomiting.

Skin

May cause mild irritation in contact with the skin, which can result in redness, itchiness and possible dermatitis.

Eye

May cause transient eye irritation resulting in redness, swelling, stinging and lacrimation.

Chronic Effects

Prolonged or repeated exposure to this material may result in irritation to the skin, and aggravate existing respiratory disorders.

12. ECOLOGICAL INFORMATION

Environ. Protection

This product is an A Class fire suppression and retarding liquid. The use of the product involves significant dilution with water (1:150 to 1:1500).

This product represents a low risk to the environment if it is used appropriately in a fire fighting scenario.

Mobility

Not available

Persistence / Degradability

Non-degraded anionic polyacrylamide has been shown to be recalcitrant to microbial degradation. This is

probably related to the extremely high molecular weight which renders microbial attack very difficult. However, once the polymer has been degraded through photolysis (i.e., the action of UV light), and the macromolecule broken down into oligomers, it becomes bioavailable and is biomineralized.

Bioaccumulation

Anionic polyacrylamide has no potential to bioaccumulate, being completely soluble in water (only limited by viscosity) and insoluble in octanol.

Acute Toxicity - Fish

LC50 (Brachydanio rerio) 96 hours: 178 - 357 mg/L
Test F242:OECD 203/GLP/report 21/12/1995

Acute Toxicity - Daphnia

EC50 (Daphnia magna) 48hr: 212 mg/L
Test F243:OECD 202/GLP/report 21/12/1995

Acute Toxicity - Algae

EC50A (I)/Chlorella vulgaris/ 96 hours: > 1,000 mg/L
EC50 μ (I)/Chlorella vulgaris/ 96 hours: > 1,000 mg/L
No Observed Effect Concentration (NOEC): 708 mg/L
Test F244:OECD 201/GLP/report 21/12/1995

Acute Toxicity - Bacteria

EC10/Pseudomonas putida/18 hours: 127 mg/L
EC50/Pseudomonas putida/18 hours: 892 mg/L
Test F245:OECD 301F,DIN 38412-27,ISO 7027/GLP/report 21/12/1995

Ecotoxicity

Anionic polyacrylamide has no systemic toxicity to aquatic organisms or micro-organisms.

13. DISPOSAL CONSIDERATIONS

Dispose of waste, according to federal, EPA and state regulations. Assure conformity with all applicable regulations.

14. TRANSPORT INFORMATION

Not dangerous for transport under DOT, IMO, and IATA/ICAO codes.

DOT Packing Group

None allocated

IMDG Hazard Class

None Allocated

DOT Class

None allocated

IMDG Pack. Group

None Allocated

IATA Hazard Class

None Allocated

IATA Packing Group

None Allocated

DOT

This product is not regulated for transportation.

DOT Packing Group

None Allocated

15. REGULATORY INFORMATION

TSCA (USA)	Not established.
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16. OTHER INFORMATION**SDS History**

SDS amendment: August 2013

1. Identification of the substance/mixture and of the company/undertaking
2. Composition/information on ingredients
3. Hazards identification
6. Accidental release measures
9. Physical and chemical properties
11. Toxicological Information
12. Ecological information
16. Other information

SDS amendment: January 2013

12. Ecological information

MSDS Reviewed: April 2011

Supersedes: December 2008

Technical Contact Point

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