

SAFETY DATA SHEET



BLAZETAMER380

Infosafe No.: MTB1X
ISSUED Date : 16/11/2017
ISSUED by: BIOCENTRAL LABORATORIES LTD

1. IDENTIFICATION

GHS Product Identifier

BLAZETAMER380

Company Name

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Recommended use of the chemical and restrictions on use

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

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Other Information

*Does not result in classification of the mixture if the kinematic viscosity is greater than 20.5mm²/s measured at 40°C.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Distillates (petroleum), hydrotreated light	64742-47-8 (See other information in Section 2)*	0-20 %
Ingredients determined not to be hazardous, including water.		Balance

Preparation Description

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

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

First Aid Facilities

Eyewash and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media suitable for surrounding environment.

Hazards from Combustion Products

Under fire conditions this product has been tested using method NFX 70-100. The R value was determined at 0.72.

Specific Hazards Arising From The Chemical

The product is a fire retardant and therefore non combustible.

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. As a water based product, if spilt on electrical equipment the product will cause short-circuits.

Note: Spills produce extremely slippery surfaces on non porous surfaces only.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations. Protect from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for this material. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

Use with good general ventilation. If mists are produced, local exhaust ventilation should be used.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715 (2009), Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 (2012), Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 2 & 6 (2012) - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material such as neoprene, nitrile or laminated film. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1 (2016): Occupational protective gloves - Selection, use and maintenance.

Footwear

Safety boots as required.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Liquid	Appearance	White milky liquid
Colour	White milky	Odour	Mild
Decomposition Temperature	Not available	Boiling Point	>100°C
Solubility in Water	Miscible	Specific Gravity	0.998
pH	6.4	Vapour Pressure	Not available
Vapour Density (Air=1)	Not available	Evaporation Rate	Not available
Odour Threshold	Not available	Viscosity	Kinematic viscosity is greater than 20.5mm ² /s measured at 40°C.
Partition Coefficient: n-octanol/water	Not available	Flash Point	Not applicable
Flammability	Non combustible	Auto-Ignition Temperature	Not applicable
Flammable Limits - Lower	Not applicable	Flammable Limits - Upper	Not applicable
Melting/Freezing Point	0°C (approximate)		

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of storage and handling.

Reactivity and Stability

Not available

Conditions to Avoid

Extremes of temperature.

Incompatible materials

Not available

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes including oxides of sulphur, carbon monoxide and carbon dioxide. This applies to concentrate only in extreme fire conditions.

Possibility of hazardous reactions

Not available

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Available toxicity data is given below

Acute Toxicity - Oral

For the Concentrate: LD50 >5050 mg/kg (USDA, 2012)

For the Mixed Fire Chemical: LD50 >5050 mg/kg (USDA, 2012)

Acute Toxicity - Dermal

For the Concentrate: LD50 >2020 mg/kg (USDA, 2012)

For the Mixed Fire Chemical: LD50 >2020 mg/kg (USDA, 2012)

Ingestion

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. Prolonged or repeated exposure to this material may aggravate existing respiratory disorders.

Skin

May cause mild irritation in contact with the skin, which can result in redness, itchiness and possible dermatitis. Prolonged or repeated exposure to this material may result in irritation to the skin.

For the Concentrate: non-irritating to slightly irritating range.

The Primary Irritation Index: 1.1 (USDA, 2012)

based on test on the skin of rabbits after 72 hours of continuous exposure.

For the Mixed Fire Chemical: non-irritating to slightly irritating range.

The Primary Irritation Index: 0.0 (USDA, 2012)

based on test on the skin of rabbits after 72 hours of continuous exposure.

Eye

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

For the Concentrate: mildly or slightly irritating

Minimally irritating (Single-wash, Double-wash)(USDA, 2012)

For the Mixed Fire Chemical: practically non-irritating to mildly irritating

Minimally irritating (Single-wash, Double-wash)(USDA, 2012)

Respiratory sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Not expected to be a skin sensitiser.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Polyacrylamide Polymers

Mutagenicity: negative

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Mutagenicity: negative

Carcinogenicity

Not considered to be a carcinogenic hazard.

None of the ingredients of Blazetamer 380 are listed by the National Toxicology Program (NTP, 2014) nor the International Agency for Research on Cancer (IARC, 2015) as being carcinogenic or suspected to be carcinogenic to animals or humans. None of the ingredients are listed on the USEPA's Integrated Risk Information System as being carcinogenic (USEPA, 2015).

Polyacrylamide polymers are approved by the US Food and Drug Administration for uses involving contact with food stuffs.

Reproductive Toxicity

Not considered to be toxic to reproduction.

Polyacrylamide Polymers

Reproductive and developmental toxicity: negative

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Reproductive toxicity: Overall negative

Developmental toxicity: negative

STOT-single exposure

Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Persistence and 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.

Mobility

Not available

Bioaccumulative Potential

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

Other Adverse Effects

Not available

Environmental Protection

Prevent this material entering waterways, drains and sewers.

Acute Toxicity - Fish

For the Concentrate:

LC50 (Brachydanio rerio) : 178 - 357 mg/l/96h

Test F242:OECD 203/GLP/report 21/12/1995

Acute Toxicity - Daphnia

For the Concentrate:

EC50 (Daphnia magna) : 212 mg/l/48h

Test F243:OECD 202/GLP/report 21/12/1995

Acute Toxicity - Algae

For the Concentrate:

EC50 (Chlorella vulgaris) : > 1,000 mg/l/96h

No Observed Effect Concentration (NOEC): 708 mg/l

Test F244:OECD 201/GLP/report 21/12/1995

Acute Toxicity - Bacteria

For the Concentrate:

EC10 (Pseudomonas putida): 127 mg/l/18h

EC50 (Pseudomonas putida): 892 mg/l/18h

Test F245:OECD 301F,DIN 38412-27,ISO 7027/GLP/report 21/12/1995

13. DISPOSAL CONSIDERATIONS

Disposal considerations

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Road and Rail Transport (ADG Code):

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

IMDG Marine pollutant

No

Transport in Bulk

Not available

Special Precautions for User

Not available

15. REGULATORY INFORMATION

Regulatory information

Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Poisons Schedule

Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS Reviewed: November 2017

Supersedes: March 2016

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

Contact Person/Point

Biocentral laboratories:

Ph, business hours:

08 8234 8886

END OF SDS

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