

MATERIAL SAFETY DATA SHEET

MSDS NO.: 2010-02 FIRST ISSUE DATE: October-2012 WHMIS STATUS: Non-controlled

DISTRIBUTOR / MANUFACTURER INFORMATION

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1. PRODUCT IDENTIFICATION

PRODUCT: iFIRE fire suppression additive.
CHEMICAL FAMILY: Anionic Surfactant.
PRODUCT USE: Raw material for industrial use.
NIOSH NUMBER: Not a listed product.
CAS NUMBER: Not applicable (Mixture).
HAZCHEM CODE: Not a listed product.
UN No.: Not a listed product.

2. COMPOSITION

According to the Workplace Hazardous Materials Information System (WHMIS), this product should be not considered a controlled product; however, this MSDS contains valuable information important to the proper use of the product. This MSDS should be retained and available for employees and other users/handlers of this product.

Non-Toxic, Non-Corrosive, Potential Irritant.

ELEMENT	CONCENTRATION %	CAS NUMBER
Aqua Content	80.0	
Anionic Surfactant	20.0	68585-34-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

3. HAZARDS IDENTIFICATION

MAIN HAZARD: None.
FLAMMABILITY: Not flammable.
CHEMICAL HAZARD: None.

BIOLOGICAL HAZARD:	None, if spilled in concentrate, recover as much as possible for re-use and wash away remaining product with abundant clean water.
REPRODUCTIVE HAZARD:	None known.
HEALTH EFFECTS-EYES:	Can cause irritation if it comes into contact with eyes.
HEALTH EFFECTS-SKIN:	Prolonged direct contact with concentrated product can cause skin irritation.
HEALTH EFFECTS-INGESTION:	Not expected to be a route of exposure.
HEALTH EFFECTS-INHALATION:	May cause irritation of nasal tract in concentrated form.
CARCINOGENICITY:	Not determined but unlikely.
MUTAGENICITY:	Not determined but unlikely.
NEUROTOXICITY:	Not determined but unlikely.

4. FIRST AID MEASURES

PRODUCT IN EYE:	Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water.
PRODUCT ON SKIN:	Wash with water before the dispersion dries. Remove contaminated clothing.
PRODUCT INGESTED:	May cause nausea and diarrhoea. Do not induce vomiting. Drink plenty of water and obtain medical advice.
PRODUCT INHALED:	Exposure to mist may cause irritation to throat. Remove to fresh air. If symptoms develop and persist, seek medical attention.

5. FIRE FIGHTING MEASURES

HAZARD IDENTIFICATION:	Non-Combustible / Non-Flammable.
FLASH POINT:	Not Applicable.
AUTO IGNITION TEMP.:	Not Applicable.
EXTINGUISHING MEDIA:	Not Applicable.
FLAMMABLE LIMITS:	Not applicable.
PROTECTIVE CLOTHING:	Not Applicable.
HAZARDOUS DECOMPOSITION:	No risks of explosion of the product in presence of mechanical impact. No risks of explosion of the product in presence of static discharge.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Wear coveralls, rubber gloves and safety goggles when handling the product.
ENVIRONMENTAL PRECAUTIONS:	Avoid dispersal of spilled concentrated material and runoff to waterways, drains and sewers. Mop up concentrated product and dilute remaining spilled product with abundant water.

SMALL SPILLS:	Stop leak if possible. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of appropriately according to regulations.
LARGE SPILLS:	Stop leak if possible. Contain and pump into a receiving vessel for removal. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Wash away remaining product with abundant clean water.

7. HANDLING AND STORAGE

SUITABLE MATERIAL:	Plastic-lined steel drums, mini-bulks or tanks. Do not use storage vessels or pipework made of aluminium, copper or their alloys.
HANDLING:	Wear protective gloves, goggles, overalls and apron (see Section 8) Observe good housekeeping practice. Keep workplace well ventilated. Open in ventilated surroundings as small levels of volatile compounds may accumulate in the headspace of the containers. STIR BEFORE USE.
STORAGE:	Store under cover at a temperature above freezing. Drums should be properly sealed. Bulk tanks should be regularly cleaned and sterilised.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:	None.
ENGINEERING CONTROL MEASURES:	ISO 9001 material handling standards.
PERSONAL PROTECTION-RESPIRATORY:	None required under normal open-air conditions.
PERSONAL PROTECTION-HAND:	Impervious gloves.
PERSONAL PROTECTION-EYE:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
PERSONAL PROTECTION-SKIN:	Appropriate protective clothing and gloves.
OTHER PROTECTION:	Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid.
APPEARANCE:	Waterish white.
ODOUR:	Mild.
pH:	7 - 8 (as supplied).
BOILING POINT:	>100°C (as of water).
MELTING POINT:	Liquid at STP.
FLASH POINT:	Not applicable.

FLAMMABILITY:	Not flammable.
AUTOFLAMMABILITY:	Not flammable.
EXPLOSIVE PROPERTIES:	Not applicable.
OXIDIZING PROPERTIES:	Not oxidizing.
VAPOUR PRESSURE:	As of water.
DENSITY:	1 (as of water)
SOLUBILITY-WATER:	Fully miscible.
SOLUBILITY-SOLVENT:	Soluble.
SOLUBILITY-COEFFICIENT:	Soluble in some alcohols, esters and aromatic solvents.

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERISATION:	Will not occur.
STABLE:	Yes.
CONDITION TO AVOID:	Extremes of temperature and pressure.
INCOMPATIBLE MATERIALS:	None known.
HAZARDOUS DECOMPOSITION PRODUCTS:	None expected under normal use conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Long-term use of this class of product under industrial conditions indicates the absence of acute effects.
SKIN AND EYE CONTACT:	Not toxic but could be irritant to some individuals.
CHRONIC TOXICITY:	LC50 (inhale –RHT) 5772 mg/l.
CARCINOGENICITY:	Not listed as a carcinogen by NTP, OSHA or IARC.
MUTAGENICITY:	No known significant effects or critical hazards.
NEUROTOXICITY:	No known significant effects or critical hazards.
REPRODUCTIVE HAZARDS:	No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY:	Low toxicity (<500 mg/l).
BIODEGRADABILITY:	Product completely biodegradable over time.
BIO-ACCUMULATION:	Not available.
MOBILITY:	Not classified as hazardous.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Not hazardous. Disposal should be in accordance with applicable provincial and national regulations.
DISPOSAL OF PACKAGING:	Drums may be cleaned and returned to supplier for re-use.

14. TRANSPORT INFORMATION

Not regulated for transport of dangerous goods, UN, IATA, HAZCHEM, ADNR.

15. REGULATORY INFORMATION

EEC HAZARD CLASSIFICATION: Not listed as hazardous.

RISK PHRASES: None.

SAFETY PHRASES: None.

NATIONAL LEGISLATION: None.

This product contains only substances, which are on the European Inventory of Existing Chemicals (EINECS)

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is based on the present state of our knowledge. This data is intended to enable safety assessments to be made and should not be construed as guaranteeing specific properties. Users are recommended to consult technical information sheets for advice on specific applications.

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