

SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

PRODUCT IDENTIFIER:

FLAMESTOP AFFF EXTINGUISHER

OTHER MEANS OF IDENTIFICATION:

AF899 FLAMESTOP 9.0L AFFF PORTABLE EXTINGUISHER
M30LM FLAMESTOP 30L AFFF MOBILE EXTINGUISHER
M50LAFFF FLAMESTOP 50L AFFF MOBILE EXTINGUISHER
M70LAFFF FLAMESTOP 70L AFFF MOBILE EXTINGUISHER
M90LAFFF FLAMESTOP 90L AFFF MOBILE EXTINGUISHER

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Use of substance / mixture: fire extinguishing agent

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Supplier: FlameStop
Street: 1/70 Gibbes Street
Postal code/city: Chatswood, Sydney. 2067
Country: Australia
Telephone: +61 2 9932 2020 - 9am-5pm AET Mon-Fri
Telefax: +61 2 9932 2022 - 9am-5pm AET Mon-Fri
E-mail: nsw@flamestop.com.au
Website: <http://www.flamestop.com.au>
Dept. responsible for information: Compliance

EMERGENCY CONTACT NUMBER: +61 425 342 729

PREPARED IN ACCORDANCE WITH THE NATIONAL CODE OF PRACTICE FOR THE PREPARATION OF MATERIAL SAFETY DATA SHEETS 2ND EDITION [NOHSC:2011(2003)]

SECTION 2 - HAZARD(S) IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:


Classification according to the the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as dangerous - Gases under Pressure - Compressed Gas

Classification according to the the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition)

Classified as Dangerous Goods

LABEL ELEMENTS:

| | |
|---------------------------------|--|
| Hazard pictograms |  |
| Pictogram code | GHS04 Gas Cylinder |
| Signal word | WARNING |
| Hazard statements | |
| Physical Hazards | H280 Contains gas under pressure; may explode if heated. |
| Health Hazards | |
| Environmental Hazards | |
| Combinations | |
| Precautionary statements | |
| General | |
| Prevention | |
| Response | |
| Storage | P410+P403 Protect from sunlight. Store in a well ventilated space. |

OTHER HAZARDS:

None.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE INGREDIENTS

| Ingredient (Designation) | CAS No. | Percentage of Ingredients |
|-----------------------------------|-----------|---------------------------|
| Water | 7732-18-5 | 94% |
| 1,2 Ethandiol | 107-21-1 | 4% |
| 2-(2-Butoxyethoxy) Ethanol | 112-34-5 | 2% |
| Nitrogen UN1066 | 7727-37-9 | Not known, gas |

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

After inhalation

Seek medical attention.

After skin contact

Wash affected area with soap and water. If irritation persists, seek medical attention.

After eye contact

Wash with water for a minimum of 15 minutes. If irritation persists, seek medical attention.

After ingestion

Give plenty of water. Seek medical advice if necessary.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE, DELAYED AND AGGREGATED

No information available

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

See above

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA

This is an extinguishing agent.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

None

ADVICE FOR FIREFIGHTERS

In case of fire the product may be violently or explosively reactive. If safe to do so, remove containers from path of fire. Keep containers and fire-exposed surfaces cool with water spray. This product should be prevented from entering drains and watercourses.

Appropriate personal protective equipment for fire fighters:

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Avoid eye and skin contact.

Hazchem code:

No Hazchem Code issued to these articles. No HIN issued under RID and ADR.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Avoid skin and eye contact.

ENVIRONMENTAL PRECAUTIONS

No information available.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Spillage presents no hazard. Flush with water.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Advice on safe use of product:

Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Advice on safe handling:

Avoid skin or eye contact. Use in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mist or vapours in the work atmosphere.

Environmental precautions:

Prevent the build up of mist or vapours in the work atmosphere.

SECTION 7 - HANDLING AND STORAGE (CONTINUED)

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical measures and storage conditions:

Always store in dry, cool area out of direct sunlight in original container with lid tightly closed.

Requirements for storage rooms and containers:

Store in suitable, labelled containers. Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations.

Suitable container/equipment material:

No information available.

Unsuitable container/equipment material:

No information available.

Information on combines storage:

No information available.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS / OCCUPATIONAL EXPOSURE LIMIT VALUES

According to the Hazardous Chemical Information System (HCIS), no exposure standards have been established for this mixture or its ingredients.

EXPOSURE CONTROLS

Appropriate engineering controls:

Use with good general ventilation. If solids/dusts are produced, local exhaust ventilation should be used. Systems under pressure should be regularly checked for leakages.

Individual protective measures, e.g. Personal Protective Equipment:

The following recommendations should be considered although not needed: Wear chemical goggles, chemical resistant gloves and dust mask.

Environmental exposure controls

No information available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Appearance - Physical state: - Colour: | Liquid Clear |
| Odour: | None |
| Odour threshold: | Odour threshold is subjective and inadequate to warn for overexposure. |
| pH: | 6.5 - 8.5 |
| Melting point (°C): | no information available |
| Boiling point (°C): | >100 |
| Molar mass: | no information available |
| Critical temperature (°C): | no information available |

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--------------------------|
| Flash point (°C): | no information available |
| Evaporation rate (ether=1): | no information available |
| Flammability range (vol% in air): | Non flammable. |
| Vapour pressure (at 20°C): | no information available |
| Vapour density: | no information available |
| Relative density, gas (air=1): | no information available |
| Relative density, liquid (water =1): | no information available |
| Solubility in water: | no information available |
| Partition coefficient n-octanol/water: | no information available |
| Viscosity at 20°C (mPa.s): | no information available |
| Explosive properties: | no information available |
| Molecular weight: | no information available |
| Other information: | no information available |

PHYSICAL HAZARDS

No information available

OTHER INFORMATION

No information available

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY

No information available

CHEMICAL STABILITY

No special measures are necessary. Stable under normal ambient storage and handling conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

None.

CONDITIONS TO AVOID

None.

INCOMPATIBLE MATERIALS

Materials to avoid:

None.

SECTION 10 - STABILITY AND REACTIVITY (CONTINUED)

HAZARDOUS DECOMPOSITION PRODUCTS

None.

SECTION 11 - TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

| | |
|--|----------------------------------|
| Toxicity Information This chemical formulation has not been tested for health effects. | |
| Acute toxicity: | This product has not been tested |
| Skin corrosion/irritation: | This product has not been tested |
| Serious eye damage/irritation: | This product has not been tested |
| Respiratory or skin sensitisation: | This product has not been tested |
| Respiratory or skin sensitisation: | This product has not been tested |
| Germ cell mutagenicity: | This product has not been tested |
| Carcinogenicity: | This product has not been tested |
| Reproductive toxicity: | This product has not been tested |
| Specific Target Organ Toxicity (STOT) – single exposure: | This product has not been tested |
| Specific Target Organ Toxicity (STOT) – repeated exposure: | This product has not been tested |
| Aspiration hazard: | This product has not been tested |

INFORMATION ON POSSIBLE ROUTES OF EXPOSURE

| | |
|------------------------------|--|
| Eye contact: | Non harmful |
| Skin contact: | Non harmful |
| Inhalation: | Negligible. Vapour pressure at ambient temperature considered. |
| Ingestion: | Non harmful |
| Acute overexposure: | See above |
| Chronic overexposure: | None |

EARLY ONSET SYMPTOMS RELATING TO EXPOSURE

No information available

DELAYED HEALTH EFFECTS FROM EXPOSURE

No information available

EXPOSURE LEVELS AND HEALTH EFFECTS

No information available

SECTION 11 - TOXICOLOGICAL INFORMATION (CONTINUED)

INTERACTIVE EFFECTS

No information available

OTHER INFORMATION

No information available.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY

Not determined

PERSISTENCE AND DEGRADABILITY

Not determined

BIOACCUMULATIVE POTENTIAL

Not determined

MOBILITY IN SOIL

Not determined

OTHER ADVERSE EFFECTS

Not determined

SECTION 13 - DISPOSABLE CONSIDERATIONS

DISPOSABLE METHODS

No harm to the environment is expected from this preparation.

Dispose of in compliance with local, state and Commonwealth regulations.

PHYSICAL/CHEMICAL PROPERTIES THAT MAY AFFECT DISPOSAL OPTIONS

Not determined

EFFECTS OF SEWAGE DISPOSAL

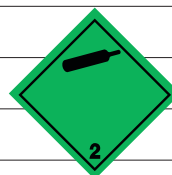
Not determined

SPECIAL PRECAUTIONS FOR INCINERATION OR LANDFILL

none

SECTION 14 - TRANSPORT INFORMATION

| | |
|--|--|
| Labelling ADG, IMO/IMDG, ICAO/IATA | 2.2 Non flammable, non toxic gas |
| Road and Rail Transport (ADG Code) | |
| Classification: | Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road & Rail (Seventh edition, 7.4, 2015) |
| UN number | 1044 |
| Proper shipping name: | FIRE EXTINGUISHERS with compressed or liquefied gas |
| Transport hazard class/division: | 2.2 |
| Packing group: | N/A |
| HAZCHEM - Emergency Action Code | No Hazchem Code issued to these articles. No HIN issued under RID and ADR. |
| Special Provisions: | 225 |
| Limited Quantities: | 120mL |
| Packing Instruction: | P003 |
| Special Packing Provisions: | PP91 |
| Placard load Incompatibilities: | <p>Division 1 - Explosives</p> <p>Division 2.1 - Flammable Gases when the Division 2,2 gas has a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500L capacity.</p> <p>Division 2.3 Toxic Gases when the Division 2,2 gas has a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500L capacity.</p> <p>Division 4.2 - Spontaneously Combustible Substances</p> <p>Division 5.2 - Organic Peroxides</p> |
| Marine transport (IMO/IMDG) | |
| Classification: | Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. |
| UN number: | 1044 |
| Proper shipping name: | FIRE EXTINGUISHERS with compressed or liquefied gas |
| Division: | 2.2 |
| Environmental hazards for Transport Purposes: | Not a known pollutant according to the International Maritime Dangerous Goods (IMDG) Code. Substance is not classified as having an acute aquatic toxicity hazard. |
| Emergency Schedule (EmS) - Fire: | F-C |
| Emergency Schedule (EmS) - Spillage: | S-V |
| Special provisions: | 225 |



SECTION 14 - TRANSPORT INFORMATION (CONTINUED)

Air transport (ICAO/IATA)

| | |
|--|---|
| Classification: | Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. |
| UN number: | 1044 |
| Proper shipping name: | FIRE EXTINGUISHERS with compressed or liquefied gas |
| Division: | 2.2 |
| Packing instruction (Cargo Aircraft only): | 213 |
| Packing instruction (Passanger and Cargo Aircraft): | Restricted. |
| Special Provisions: | A19 |

SPECIAL PRECAUTIONS FOR USER

Not available.

SECTION 15 - REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

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).

AICS (Australia)

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted

Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

KEY LITERATURE REFERENCES AND SOURCES

Classification in accordance with the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)].

This Safety Data Sheet where necessary has been established in accordance with the applicable European Union legislation and has used calculation methods of regulation (EC) 1272/2008 CLP / (EC) 1999/45 DPD.

Standard for the Uniform Scheduling of Medicines and Poisons. (SUSMP)

Australian Inventory of Chemical Substances (AICS)

Australian Code for the Transport of Dangerous Goods by Road & Rail (2015, 7th Edition, 7.4)

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

International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Workplace exposure standards for airborne contaminants, Safe work Australia.

International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

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For contact information please go to page 1 of this SDS.

END OF SDS.