Safety Data Sheet

This safety data sheet complies with the requirements of: WHS regulation 2011

Product name Jet-X 2% High Expansion Foam Concentrate

Section 1: Identification: Product identifier and chemical identity

Product Identifier

Product name	Jet-X 2% High Expansion Foam Concentrate
Product code	GFN1020-2-031

Other means of identification

Pure substance/mixture	Mixture

Recommended use of the chemical and restrictions on use

Sold to the general public	No
Recommended use	Fire extinguishing agent
Uses advised against	Consumer use

Details of manufacturer or importer

Supplier
Tyco Fire Protection Products
Level 3, 95 Coventry Street,
Southbank, Australia-Victoria 3006
+613 9313 9711

For further information, please contact

Product Stewardship at 1-715-735-7411

Emergency Telephone Number

612 9037 2994 (Australia)

Section 2: Hazard(s) identification

GHS - Classification

Serious eye damage/eye irritation Category 2 - (H319)

Label Elements

Exclamation mark

Signal word
WARNING

Hazard statements
H319 - Causes serious eye irritation

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Other Hazards
May be harmful if swallowed
Toxic to aquatic life with long lasting effects
Toxic to aquatic life

Section 3: Composition and information on ingredients, in accordance with Schedule 8

Substance

Not Applicable

Mixture

Chemical name	CAS No	weight-%
Sulfuric Acid, mono-C10-16 esters, Ammonium salts	68081-96-9	10 - 20%
Ethylene Glycol	107-21-1	10 - 20%
2-(2-Butoxyethoxy)ethanol	112-34-5	0 - 10%
Dodecan-1-ol, ethoxylated, sulfates, Ammonium salts	32612-48-9	0 - 10%
Lauryl Alcohol	112-53-8	0 - 10%
Non-hazardous ingredients	Proprietary	Balance

Section 4: First aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Emergency telephone number Poisons Information Center, Australia: 13 11 26
Poisons Information Center, New Zealand: 0800 764 766

Inhalation Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms Burning sensation.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians Treat symptomatically.

Section 5: Firefighting measures

Suitable extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

Specific Hazards Arising from the Chemical

Specific hazards arising from the chemical No information available.

Hazardous Combustion Products Carbon oxides. Nitrogen oxides (NOx). Oxides of sulphur.

Special Protective Actions for Fire-Fighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Other Information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

Environmental Precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labelled containers.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: Handling and storage, including how the chemical may be safely used

Precautions for Safe Handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials None known based on information supplied.

Section 8: Exposure controls and personal protection

Control Parameters

Exposure Limits .

Chemical name	Australia
Ethylene Glycol 107-21-1	10 mg/m^3 20 ppm 52 mg/m^3 40 ppm STEL 104 mg/m^3 STEL

Appropriate Engineering Controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.

Skin and body protection Wear suitable protective clothing.

Hand protection Wear suitable gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	No data available
Colour	Blue
Odour	Characteristic.
Odour Threshold	No data available

Property	**Values**	**Remarks • Method**
pH	7	
Melting point/freezing point	No data available	No data available
Boiling point / boiling range	100 °C	
Flash Point	> 100 °C	
Evaporation Rate	No data available	No data available
Flammability (solid, gas)	No data available	No data available
Flammability limit in air		No data available
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapour Pressure	No data available	No data available
Vapour Density	No data available	No data available
Relative Density	No data available	No data available
Water Solubility	No data available	No data available
solubility(ies)	No data available	No data available
Partition coefficient	No data available	No data available
Autoignition Temperature	No data available	No data available
Decomposition Temperature	No data available	No data available
Kinematic viscosity	No data available	No data available
Dynamic viscosity	No data available	No data available

OTHER INFORMATION

softening point	No information available
Molecular Weight	No information available
VOC content (%)	No information available
Density	No information available
Bulk Density	No information available

Section 10: Stability and reactivity

Reactivity

Reactivity No information available.

Chemical Stability

Stability Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous Polymerisation Hazardous polymerisation does not occur.

Conditions to Avoid

Conditions to avoid None known based on information supplied.

Incompatible Materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Oxides of sulphur.

Section 11: Toxicological information

Acute Toxicity

Information on Likely Routes of Exposure

Product Information .

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms May cause redness and tearing of the eyes.

Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 3,104.00 mg/kg
ATEmix (dermal) 35,416.00 mg/kg

Unknown acute toxicity 39.298 % of the mixture consists of ingredient(s) of unknown toxicity
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
21.298 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
39.298 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
39.298 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)
39.298 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat) = 9530 µL/kg (Rabbit)	-
2-(2-Butoxyethoxy)ethanol	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
Dodecan-1-ol, ethoxylated, sulfates, Ammonium salts	= 630 mg/kg (Rat)	-	-
Lauryl Alcohol	> 12800 mg/kg (Rat)	-	-

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Irritating to eyes.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Section 12: Ecological information

Ecotoxicity

Ecotoxicity .

Unknown aquatic toxicity 15.5715 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea
Sulfuric Acid, mono-C10-16 esters, Ammonium salts	EC50 (96h) = 42 mg/L Desmodesmus subspicatus	LC50 (48h) static = 19 mg/L Leuciscus idus	-	EC50 (24h) = 56 mg/L Daphnia magna
Ethylene Glycol	EC50 (96h) 6500 - 13000 mg/L Pseudokirchneriella subcapitata	LC50 (96h) static 40000 - 60000 mg/L Pimephales promelas LC50 (96h) static = 27540 mg/L Lepomis macrochirus LC50 (96h) = 41000 mg/L Oncorhynchus mykiss LC50 (96h) static 14 - 18 mL/L Oncorhynchus mykiss LC50 (96h) static = 16000 mg/L Poecilia reticulata LC50 (96h) static = 40761 mg/L Oncorhynchus mykiss	-	EC50 (48h) = 46300 mg/L Daphnia magna

2-(2-Butoxyethoxy)ethanol	EC50 (96h) > 100 mg/L Desmodesmus subspicatus	LC50 (96h) static = 1300 mg/L Lepomis macrochirus	-	EC50 (48h) > 100 mg/L Daphnia magna EC50 (24h) = 2850 mg/L Daphnia magna
Lauryl Alcohol	EC50 (96h) = 0.62 mg/L Desmodesmus subspicatus	LC50 (96h) = 0.1855 mg/L Pimephales promelas LC50 (96h) flow-through = 1.01 mg/L Pimephales promelas	-	EC50 (48h) = 320 mg/L Daphnia magna

Persistence and Degradability

No information available.

Bioaccumulative potential

Bioaccumulation No information available.

Component Information

Chemical name	Partition coefficient
Ethylene Glycol	-1.93
Lauryl Alcohol	5.36

Mobility

Mobility in Soil No information available.

Mobility No information available.

Other Adverse Effects

Other Adverse Effects No information available.

Section 13: Disposal considerations

Waste Treatment Methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Section 14: Transport information

ADG NOT REGULATED

IATA NOT REGULATED

IMDG NOT REGULATED

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC CODE
No information available

Section 15: Regulatory information

REGULATORY INFORMATION

National Regulations

Australia
See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)
No poisons schedule number allocated

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

International regulations

Ozone-depleting substances (ODS) Not Applicable

Persistent Organic Pollutants Not Applicable

Export Notification requirements Not Applicable

Section 16: Any other relevant information

Revision date 10-Mar-2017

Revision note
SDS sections updated. 2. 3. 11. 12. 15.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

c carcinogen

Disclaimer

The information provided in this Material 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

End of Safety Data Sheet

Data for Regulatory Rules

Composition 39.298

Chemical name	Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)	Poison Schedule Number
Ethylene Glycol - 107-21-1	SUSDP Schedule 5 except its salts and derivatives; except when included in Schedule 5; in paints or paint tinters; in toothpastes or mouthwashes containing >0.25% of Ethylene glycol; or in other preparations containing <=2.5% of Ethylene glycol	
2-(2-Butoxyethoxy)ethanol - 112-34-5	SUSDP Schedule 5	

GHS Product Information

Pure substance/mixture	Mixture
Sold to the general public	No
pH VALUE	7
Uniform Fire Code	Combustible Liquid: III-B Highly Toxic: Liquid
Physical State	Liquid
Flash Point °C	100
Boiling point °C	100

Australia

Hazard statements

H319 - Causes serious eye irritation

Precautionary Statements

Wear protective gloves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Precautionary Statements

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

Hazard statements

Causes serious eye irritation

15.5715 % of the mixture consists of component(s) of unknown hazards to the aquatic environment
Unknown Acute Aquatic Toxicity 15.5715
Unknown Chronic Aquatic Toxicity 15.5715
39.298 % of the mixture consists of ingredient(s) of unknown toxicity
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
21.298 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
39.298 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
39.298 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
39.298 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)

GHS - Classification

Signal word	WARNING
Health hazards	
Serious eye damage/eye irritation	Category 2
Signal word	WARNING
Graphic	
Hazard statements	Causes serious eye irritation
Precautionary Statements	
Precautionary Statements - Prevention	Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection
Eyes	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention
Symbols/Pictograms	
Health hazards	Exclamation mark