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SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

PRODUCT IDENTIFIER:

FLUORINE FREE & ALCOHOL RESISTANT EXTINGUISHER

OTHER MEANS OF IDENTIFICATION:

G9FOAM-FF 9.0 LITRE FLUORINE FREE AFFF PORTABLE EXTINGUISHER
M30FOAM-FF 30 LITRE ALCOHOL RESISTANT MOBILE EXTINGUISHER
M50FOAM-FF 50 LITRE ALCOHOL RESISTANT MOBILE EXTINGUISHER
M70FOAM-FF 70 LITRE ALCOHOL RESISTANT MOBILE EXTINGUISHER
M90FOAM-FF 90 LITRE ALCOHOL RESISTANT 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: Atlantis Fire & Safety Services
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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:

Can harm the aquatic fauna when entering surface waters.

Can harm the bacteria population in waste water treatment plants when entering the sewerage system.

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE INGREDIENTS

Ingredient (Designation)	CAS No.	Concentration
1,2-Ethandiol	107-21-1	10% - <30%
2-(2-Butoxyethoxy)ethanol	112-34-5	< 10%
Triethanolammonium-laurylsulfate	85665-45-8	< 10%
Alkylamidobetaine	147170-44-3	< 10%
Nitrogen UN1066	7727-37-9	not known, gas
Water H₂O	7732-18-5	>60%

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

General information

Remove contaminated, saturated clothing immediately.

Wash thoroughly the body (shower or bath).

Observe risk of aspiration if vomiting occurs.

When in doubt or if symptoms are observed, get medical advice.

In case of inhalation

Move away from radius of action. Provide fresh air.

Consult a doctor immediately in the case of inhaling spray mist and show him/her packaging, label or this safety datasheet.

In case of skin contact

Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist . Remove contact lenses, if present and easy to do.

After ingestion

Do not induce vomiting (possible risk of suffocation due to formation of foam).

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

SECTION 4: FIRST AID MEASURES

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

Drowsiness

Nausea

Gastrointestinal complaints

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

If unconscious place in recovery position and seek medical advice.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA

The product itself does not burn. The product is used as a fire extinguishing agent.

Co-ordinate fire-fighting measures to the fire surroundings.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

The product itself does not burn.

ADVICE FOR FIRE FIGHTERS

Collect contaminated fire extinguishing water separately. 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:

Provide adequate ventilation in enclosed spaces. Avoid eye and skin contact. See also section 8 of this SDS.

ENVIRONMENTAL PRECAUTIONS

Cover drains.

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

Avoid if possible penetration of aqueous systems and ground.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Take up mechanically, placing in appropriate containers for disposal.

Treat the recovered material as prescribed in the section on waste disposal.

Suitable material for taking up:

Sand

Sawdust

Chemical binding agents, containing acids

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 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 mist or vapours in the work atmosphere.

Environmental precautions:

Shafts and sewers must be protected from entry of the product. See section 8.

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.

Do not store at temperatures above +50°C for longer periods.

Requirements for storage rooms and containers:

no information available.

Suitable container/equipment material:

High-grade steel

Polyethylene (PE)

Glass fibre reinforced polyester

Unsuitable container/equipment material:

Aluminium, Light metal, Copper, Zinc, Alloy containing copper, Alloy containing light metal, Iron, Steel

Information on combines storage:

No information available.

SPECIFIC END USE(S)

Fire-extinguishing foams based on synthetic surfactants

Do not use for cleaning purposes.

Recommendation

Observe technical data sheet.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS / OCCUPATIONAL EXPOSURE LIMIT VALUES

Substance name:	2-(2-Butoxyethoxy)ethanol
CAS No.:	112-34-5
EC No.:	203-961-6
United Kingdom:	long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin) TWA (EN) short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin) STEL (EN) peak limitation: ---; Limit value type (country of origin) Ceil (EN)
European Union:	long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin) TWA (EC) short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin) STEL (EC) peak limitation: ---; Limit value type (country of origin) Ceil (EC)

CONTROL PARAMETERS / OCCUPATIONAL EXPOSURE LIMIT VALUES

Germany:	long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin) AGW (DE)
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin) Peak (DE)
	peak limitation: ---; Limit value type (country of origin) Ceil (DE)
Ireland	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin) TWA (IE)
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin) STEL (IE)
	peak limitation: ---; Limit value type (country of origin) Ceil (IE)
Substance name:	1,2-Ethandiol
CAS No.:	107-21-1
EC No.:	203-473-3
United Kingdom:	long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin) TWA (EN)
	short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin) STEL (EN)
	peak limitation: ---; Limit value type (country of origin) Ceil (EN)
European Union:	long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin) TWA (EC)
	short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin) STEL (EC)
	peak limitation: ---; Limit value type (country of origin) Ceil (EC)
Germany:	long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin) AGW (DE)
	short-term occupational exposure limit value: 20 ppm; Limit value type (country of origin) Peak (DE)
	peak limitation: ---; Limit value type (country of origin) Ceil (DE)
Ireland	long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin) TWA (IE)
	short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin) STEL (IE)
	peak limitation: ---; Limit value type (country of origin) Ceil (IE)

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:

Wear eye goggles with side protection/goggles/face protection shield

Wear Nitrile Rubber or Butyle Rubber gloves with long cuffs (Note: breakthrough and swelling properties of the material must be taken into consideration).

Environmental exposure controls

Store concentrate according to appropriate local, state or Commonwealth regulations.

Do not let the concentrate get into the environment.

If possible, hold back the application solution and dispose of after use.

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Recommended induction rate	0,3%	wetting agent	solid materials
	3%	low expansion foam	non-polar liquids
	3%	medium expansion foam	non-polar liquids
	3%	high expansion foam	non-polar liquids
	6%	low expansion foam	polar liquids
Foam expansion* (according to EN 1568)	5-10	low expansion foam*	
	60-120	medium expansion foam*	
	400-800	high expansion foam*	

* Foam expansion and drainage times may vary, depending on foam equipment and operating pressure.

Physical state	Liquid	
Colour	Yellow to brown	
Odour	no information about specific characteristics or data available	
Odour threshold	no information about specific characteristics or data available	
pH	6,5 - 8,5 (at 20°C)	DIN EN 12 62:1996
Freezing point	-5°C	DIN ISO 3016
Initial boiling point and range	>100°C	DIN 51751
Flash Point	No flash point up to 100°C	DIN EN 22 719
Evaporation rate	no information about specific characteristics or data available	
Flammability	This mixture is not flammable	
Explosive limits	This mixture is not flammable / combustible	
Vapour pressure	no information about specific characteristics or data available	
Vapour density	no information about specific characteristics or data available	
Relative density	1,020 - 1,060 g/ml (at 20°C)	DIN EN ISO 3675
Water Solubility	completely miscible	OECD 105
Partition coefficient: n-octanol/ water	no information about specific characteristics or data available	
Auto-ignition temperature	no information about specific characteristics or data available	
Decomposition temperature	no information about specific characteristics or data available	
Viscosity	< 800(400) mPa*s @ 75(375) 1/s (at 20°C) (structure: viscous)	DIN EN ISO 3219
	< 1500(750) mPa*s @ 75(375) 1/s (at -5°C) (structure: viscous)	DIN EN ISO 3219

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

PHYSICAL HAZARDS

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

OTHER INFORMATION

Fluorine Free & Alcohol Resistant foam poses no health risk, provided it is used as intended as fire extinguishing foam. Fire fighting exercise and testing may have to be agreed with local authorities.

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY

This mixture is chemically stable.

CHEMICAL STABILITY

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

POSSIBILITY OF HAZARDOUS REACTIONS

No special measures are necessary.

CONDITIONS TO AVOID

Do not store at temperatures above: +50°C

INCOMPATIBLE MATERIALS

Materials to avoid:

Alkali (lye), concentrated
Alkali metals
Acid, concentrated
Oxidising agent, strong
Reducing agent, strong
Acid halides

HAZARDOUS DECOMPOSITION PRODUCTS

No information available.

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute oral toxicity:	
LD50	>2000mg/kg GHS-category 5
Species:	Rat
Method:	OECD 420
Acute dermal toxicity:	The product has not been tested
Acute inhalation toxicity:	The product has not been tested
Skin corrosion/irritation:	
Species:	Albino rabbit
Method:	OECD 404
Result:	Not an irritant
Serious eye damage/irritation:	
Species:	Albino rabbit
Method:	OECD 404
Result:	Irritant (Cat. 2A)
Respiratory or skin sensitisation:	Hazardous ingredients: not sensitising
Germ cell mutagenicity:	The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP
Carcinogenicity:	The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP
Reproductive toxicity:	The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP
Specific Target Organ Toxicity – single exposure:	The product has not been tested
Specific Target Organ Toxicity – repeated exposure:	The product has not been tested
Aspiration hazard:	The product has not been tested

INFORMATION ON POSSIBLE ROUTES OF EXPOSURE

No information available. See section 4.

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

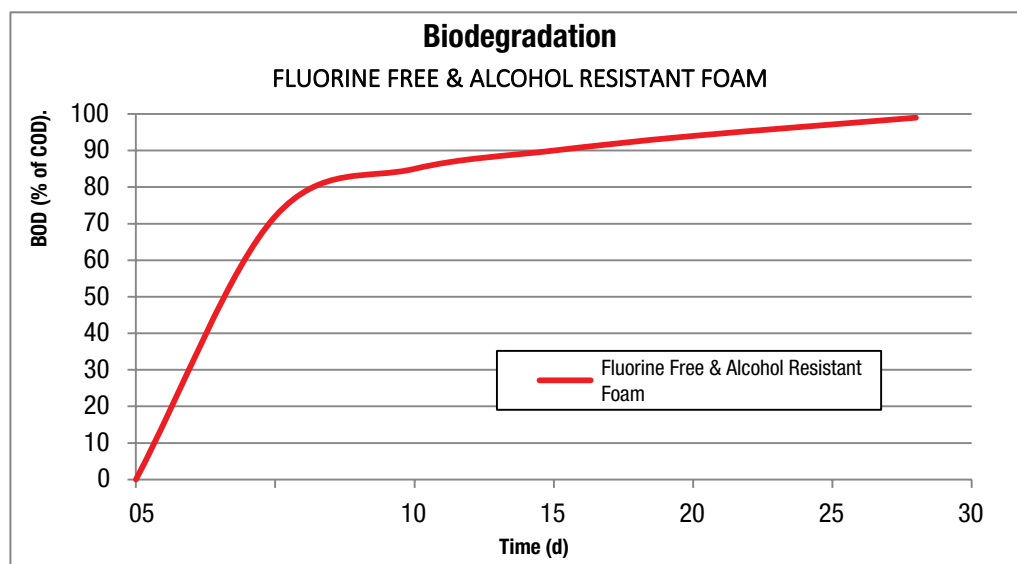
ECOTOXICITY

Aquatic toxicity			
Concentration	100%	3%	Regulatory information
Acute (short term) fish toxicity			
Effective dose	LC50 ~240mg/L	8000mg/L	
Exposure time	96h		
Species	Leuciscus idus (golden orfe)		
Method	OECD 203		OECD 203
Acute (short-term) daphnia toxicity			
Effective dose	EC50 ~210mg/L	7000mg/L	
Exposure time	48h		
Species	Daphnia magna (Big water flea)		
Method	OECD 202		OECD 202
Acute (short-term) algae toxicity			
Effective dose	EC50 ~210mg/L	ca. 7000mg/L	
Exposure time	72h		
Method	OECD 201		OECD201
Effects in sewage plants			
Chemical oxygen demand (COD)	ca. 488000 mg O ₂ /L	ca. 14700 mg O ₂ /L	DIN EN 38409-H41-1
Biochemical oxygen demand (BOD)	ca. 170000 mg O ₂ /L	ca. 5100 mg O ₂ /L	DIN EN 1899-1
BOD/COD ratio	34,8	34,8	-
Bacteria toxicity	~500mg/L	~16600mg/L	DIN 38412 – L3
Dilution	~2000 x Dilution	~60 x Dilution	DIN 38412 – L3
Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge. The product may lead to foaming in sewage plants. Observe local regulations concerning effluent treatment. Special pre-treatments are necessary.			

PERSISTENCE AND DEGRADIBILITY

Biodegradation	
Degradation rate (%)	>99% in 28 days (DIN EN ISO 9888)
Time (d)	28
Analytical method	BOD (% of COD)
Method	OECD 302B/ ISO 9888/ EEC 92/69/V, C.9
Type	Aerobic
Result	Readily biodegradable (according to OECD criteria).

SECTION 12 - ECOLOGICAL INFORMATION (CONTINUED)



Time (d)	BOD (% of COD)
0	0
5	72
10	85
15	90
20	94
28	99

BIOACCUMULATIVE POTENTIAL

1,2-ETHANDIOL: No indication of bioaccumulation potential.

2-(2-BUTOXYETHOXY)ETHANOL: No indication of bioaccumulation potential.

TRIETHANOLAMMONIUM-LAURYSULFATE: No indication of bioaccumulation potential.

ALKYLAMIDOBETAINE: No indication of bioaccumulation potential.

MOBILITY IN SOIL

If product enters soil, it will be mobile and may contaminate groundwater.

OTHER ADVERSE EFFECTS

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

SECTION 13 - DISPOSABLE CONSIDERATIONS

DISPOSABLE METHODS

As per the Department of Environmental and Heritage Protection Operational Policy:- Environmental Management of Firefighting Foam

- irrigation onto adjacent land to soak in and degrade in situ
- holding of larger quantities in on-site ponds or drains for 28 days or longer according to its BOD profile to fully biodegrade
- covering with sand or soil to prevent or limit subsequent movement to a waterway in runoff
- soaking into soil along a roadside drainage line to degrade in situ (clear of any waterway)
- **pumping out and disposal to sewer or wastewater treatment plant.**

PHYSICAL/CHEMICAL PROPERTIES THAT MAY AFFECT DISPOSAL OPTIONS

No information available.


EFFECTS OF SEWAGE DISPOSAL

No information available.

SPECIAL PRECAUTIONS FOR INCINERATION OR LANDFILL

All containers should be returned to the supplier. Privately owned containers no longer required, should be disposed of in an environmentally safe manner, and in accordance with applicable regulations.

SECTION 14 - TRANSPORT INFORMATION

Labelling ADG, IMO/IMDG, ICAO/IATA	 <p style="text-align: center;">2.2 Non flammable, non toxic gas</p>
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 (Passenger 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

EU legislation	
Regulation (EC) No. 2037/2000 concerning materials which cause damage to the ozone layer	not applicable
Regulation (EC) No. 304/2003 of the European parliament and of the council concerning the export and import of dangerous chemicals	not applicable
Directive 96/59/EC (PCB-guideline)	not applicable
Regulation (EC) No. 648/2004 (Detergents regulation)	The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.
Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).	Volatile organic compounds (VOC) content in percent by weight: max. 10
Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases	not applicable

SECTION 15 - REGULATORY INFORMATION (CONTINUED)

Australian regulations	AICS (Australian Inventory of Chemical Substances) Australian HVICL (High Volume Industrial Chemicals List) National Occupational Health and Safety Commission (NOHSC) Approved Criteria for Classifying Hazardous Substances NICNAS Priority Existing Chemical (PEC) NPI (National Pollutant Inventory)
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CHEMICAL ASSESSMENT

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

SECTION 16 - OTHER INFORMATION

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

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.

WGK	Wassergefährdungsklassen - German water hazard classes
EC	European Commission
PCB	Printed Circuit Board
VwVwS	Verwaltungsvorschrift wassergefährdende Stoffe (Administrative Regulation for Agents Hazardous to Waters)
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
DIN	Deutsches Institut für Normung (German Institute for Standardisation)
ISO	International Organization for Standardisation
EN	European Standard
LGK	Lagerklasse (storage class)
CAS	Chemical Abstracts Service
CLP	Classification, Labelling & Packaging (EU regulation)
NOHSC	National Standard for the Storage and Handling of Workplace Dangerous Goods
TRGS	Technische Regel für Gefahrstoffe (Technical Rules for Hazardous Substances)

DISCLAIMER

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

END OF SDS.

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