

Freshwater/Saltwater Nitrite Test Solution

Mars (Mars Fishcare)

Chemwatch Hazard Alert Code: 1

Chemwatch: 4650-16

Version No: 7.1.1.1

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: 01/01/2013

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L.GHS.USA.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Freshwater/Saltwater Nitrite Test Solution
Chemical Name	Not Applicable
Synonyms	Solution ID# 3317
Proper shipping name	Not Applicable
Chemical formula	Not Applicable
Other means of identification	Not Available
CAS number	Not Applicable

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Nitrate test solution for products 26, 34 and 401M.
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Details of the supplier of the safety data sheet

Registered company name	Mars (Mars Fishcare)	Mars (Mars Fishcare Europe)
Address	50 East Hamilton Street Chalfont 18914 PA United States	Parc d' activite la Ravoire Metz-Tessy F74371 Pringy France
Telephone	+1 215 822 8181	+33 450 572 050
Fax	+1 215 822 1906	+33 450 574 411
Website	Not Available	Not Available
Email	Not Available	reach@rena.fr

Emergency telephone number

Association / Organisation	Not Available	Not Available
Emergency telephone numbers	Not Available	+44 1932 784 366
Other emergency telephone numbers	Not Available	+44 1932 784 366

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

CHEMWATCH HAZARD RATINGS

	Min	Max
Flammability	1	1
Toxicity	0	0
Body Contact	1	1
Reactivity	1	1
Chronic	0	0

0 = Minimum
1 = Low
2 = Moderate
3 = High
4 = Extreme



GHS Classification	Not Applicable
Legend:	1. Classified by Chemwatch; 2. Classification drawn from EC Directive 67/548/EEC - Annex I ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Label elements

GHS label elements	Not Available
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SIGNAL WORD	NOT APPLICABLE
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Hazard statement(s)

Not Applicable

Precautionary statement(s): Prevention

Not Applicable

Precautionary statement(s): Response

Not Applicable

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Precautionary statement(s): Storage

Not Applicable

Precautionary statement(s): Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
25322-68-3	<95	polyethylene glycol
7647-01-0	0.97	Hydrochloric Acid

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: <ul style="list-style-type: none"> ▶ Wash out immediately with water. ▶ If irritation continues, seek medical attention. ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: <ul style="list-style-type: none"> ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.
Inhalation	<ul style="list-style-type: none"> ▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ▶ Other measures are usually unnecessary.
Ingestion	<ul style="list-style-type: none"> ▶ Immediately give a glass of water. ▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

	Treat symptomatically.
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SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

	<ul style="list-style-type: none"> ▶ Water spray or fog. ▶ Foam. ▶ Dry chemical powder. ▶ BCF (where regulations permit).
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Special hazards arising from the substrate or mixture

Fire Incompatibility	▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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Advice for firefighters

Fire Fighting	<ul style="list-style-type: none"> ▶ Alert Fire Brigade and tell them location and nature of hazard. ▶ Wear full body protective clothing with breathing apparatus. ▶ Prevent, by any means available, spillage from entering drains or water course. ▶ Use water delivered as a fine spray to control fire and cool adjacent area.
Fire/Explosion Hazard	<ul style="list-style-type: none"> ▶ Combustible. ▶ Slight fire hazard when exposed to heat or flame. ▶ Heating may cause expansion or decomposition leading to violent rupture of containers. ▶ On combustion, may emit toxic fumes of carbon monoxide (CO).

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	<ul style="list-style-type: none"> ▶ Remove all ignition sources. ▶ Clean up all spills immediately. ▶ Avoid breathing vapours and contact with skin and eyes. ▶ Control personal contact with the substance, by using protective equipment.
Major Spills	Moderate hazard. <ul style="list-style-type: none"> ▶ Clear area of personnel and move upwind. ▶ Alert Fire Brigade and tell them location and nature of hazard. ▶ Wear breathing apparatus plus protective gloves.
Personal Protective Equipment advice is contained in Section 8 of the MSDS.	

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SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	<ul style="list-style-type: none"> ▶ DO NOT USE brass or copper containers / stirrers ▶ Avoid all personal contact, including inhalation. ▶ Wear protective clothing when risk of exposure occurs.
Other information	<ul style="list-style-type: none"> ▶ Store in original containers. ▶ Keep containers securely sealed. ▶ No smoking, naked lights or ignition sources. ▶ Store in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities

Suitable container	<ul style="list-style-type: none"> ▶ Metal can or drum ▶ Packaging as recommended by manufacturer. ▶ Check all containers are clearly labelled and free from leaks.
Storage incompatibility	<p>Avoid contamination of water, foodstuffs, feed or seed.</p> <ul style="list-style-type: none"> ▶ Avoid reaction with oxidising agents

PACKAGE MATERIAL INCOMPATIBILITIES

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US ACGIH Threshold Limit Values (TLV)	Hydrochloric Acid	Hydrogen chloride	Not Available	Not Available	2 (ppm)	TLV® Basis: URT irr
US OSHA Permissible Exposure Levels (PELs) - Table Z1	Hydrochloric Acid	Hydrogen chloride	Not Available	Not Available	7 (mg/m3) / 5 (ppm)	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Hydrochloric Acid	Anhydrous hydrogen chloride; Aqueous hydrogen chloride (i.e., Hydrochloric acid, Muriatic acid) [Note: Often used in an aqueous solution.]	Not Available	Not Available	7 (mg/m3) / 5 (ppm)	Not Available

EMERGENCY LIMITS

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
polyethylene glycol	10(ppm)	60(ppm)	500(ppm)	500(ppm)
Hydrochloric Acid	0.5(ppm)	1.8(ppm)	22(ppm)	100(ppm)


Ingredient	Original IDLH	Revised IDLH
Hydrochloric Acid	100(ppm)	50(ppm)

MATERIAL DATA

Exposed individuals are **NOT** reasonably expected to be warned, by smell, that the Exposure Standard is being exceeded.

Odour Safety Factor (OSF) is determined to fall into either Class C, D or E.

Exposure controls

Appropriate engineering controls	<p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk.</p>
Personal protection	
Eye and face protection	<ul style="list-style-type: none"> ▶ Safety glasses with side shields ▶ Chemical goggles. ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task.
Skin protection	See Hand protection below
Hand protection	<p>Wear general protective gloves, eg. light weight rubber gloves.</p> <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and</p>
Body protection	See Other protection below

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Other protection	No special equipment needed when handling small quantities. OTHERWISE: ▶ Overalls. ▶ Barrier cream.
Thermal hazards	

Recommended material(s)**GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the

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Material	CPI

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

Respiratory protection

Type AB-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AB-AUS P2	-	AB-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AB-AUS / Class 1 P2	-
up to 100 x ES	-	AB-2 P2	AB-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Appearance	Blue-green solution with no odour; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.128
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution(1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	▶ Presence of incompatible materials. ▶ Product is considered stable. ▶ Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7

Hazardous decomposition products

See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product Inhalation hazard is increased at higher temperatures.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

Freshwater/Saltwater Nitrite Test Solution	TOXICITY	IRRITATION
		Not Available
polyethylene glycol	TOXICITY	IRRITATION
	Intraperitoneal (Mouse) LD50: 473 mg/kg	Eye (rabbit): 500mg/24h - mild.
	Intraperitoneal (Mouse) LD50: 7500 mg/kg	Skin (rabbit): 500mg/24h - mild.
	Intraperitoneal (Rat) LD50: 12600 mg/kg	
	Intraperitoneal (Rat) LD50: 14100 mg/kg	
	Intraperitoneal (Rat) LD50: 15390 mg/kg	
	Intraperitoneal (Rat) LD50: 15570 mg/kg	
	Intraperitoneal (Rat) LD50: 17700 mg/kg	
	Intraperitoneal (Rat) LD50: 6790 mg/kg	
	Intraperitoneal (Rat) LD50: 9700 mg/kg	
	Intraperitoneal (Rat) LD50: 9708 mg/kg	
	Intravenous (Cat) TDL: 1000 mg/kg	
	Intravenous (Mouse) LD50: 7.9 mg/kg	
	Intravenous (Mouse) LD50: 8550 mg/kg	
	Intravenous (Rat) LD: 3 mg/kg	
	Intravenous (Rat) LD50: 7130 mg/kg	
	Intravenous (Rat) LD50: 7312 mg/kg	
	Intravenous (Rat) LD50: 7500 mg/kg	
	Oral (Guinea pig) LD50: 15700 mg/kg	
	Oral (Guinea pig) LD50: 19600 mg/kg	
	Oral (Guinea pig) LD50: 22500 mg/kg	
	Oral (Guinea pig) LD50: 28900 mg/kg	
	Oral (Guinea pig) LD50: 50900 mg/kg	
	Oral (Mouse) LD50: 28915 mg/kg	
	Oral (Rabbit) LD50: 17300 mg/kg	
	Oral (Rabbit) LD50: 26800 mg/kg	
	Oral (Rabbit) LD50: 28900 mg/kg	
	Oral (Rat) LD50: 1054 mg/kg	
	Oral (Rat) LD50: 27500 mg/kg	
	Oral (Rat) LD50: 30200 mg/kg	
	Oral (Rat) LD50: 31600 mg/kg	
	Oral (Rat) LD50: 31640 mg/kg	
Oral (rat) LD50: 33750 mg/kg		
Oral (Rat) LD50: 44200 mg/kg		
Oral (Rat) LD50: 51200 mg/kg		
Oral (Rat) LD50: 51310 mg/kg		

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	Oral (Rat) LD50: 600 mg/kg	
	Not Available	Not Available
Hydrochloric Acid	TOXICITY	IRRITATION
	Inhalation (human) LCLo: 1300 ppm/30 min	Eye (rabbit): 5mg/30s - mild
	Inhalation (human) LCLo: 3000 ppm/5 min	
	Inhalation (rat) LC50: 3124 ppm/1h	
	Oral (rat) LD50: 900 mg/kg	
	Unreported (man) LDLo: 81 mg/kg	
	Not Available	Not Available

* Value obtained from manufacturer's msds

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances

Freshwater/Saltwater Nitrite Test Solution	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis.
POLYETHYLENE GLYCOL	for polyethylene glycols Pure polyethylene glycols have essentially similar toxicity, with toxicity being inverse to molecular weights. Absorption from the gastrointestinal tract decreases with increasing molecular weight The G.I. for molecular weights (200-8000) * Oral (rat) LD50: 31000->50000 mg/kg Oral (mice) LD50: 38000->50000 mg/kg Oral (g.pig) LD50: 17000->50000 mg/kg Oral (rabbit) LD50: 14000->50000 mg/kg * AIHA WEEL Guides Intraperitoneal (mice) LD50: 3100-12900 mg/kg
HYDROCHLORIC ACID	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.

Acute Toxicity	Not Applicable	Carcinogenicity	Not Applicable
Skin Irritation/Corrosion	Not Applicable	Reproductivity	Not Applicable
Serious Eye Damage/Irritation	Not Applicable	STOT - Single Exposure	Not Applicable
Respiratory or Skin sensitisation	Not Applicable	STOT - Repeated Exposure	Not Applicable
Mutagenicity	Not Applicable	Aspiration Hazard	Not Applicable

CMR STATUS

RESPIRATORY	Hydrochloric Acid	US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs) - Respiratory	X
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SECTION 12 ECOLOGICAL INFORMATION

Toxicity

NOT AVAILABLE

Ingredient	Endpoint	Test Duration	Effect	Value	Species	BCF
Freshwater/Saltwater Nitrite Test Solution	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Not Available	Not Available	Not Available

Bioaccumulative potential

Ingredient	Bioaccumulation
Not Available	Not Available

Mobility in soil

Ingredient	Mobility
Not Available	Not Available

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SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	<ul style="list-style-type: none"> ▶ DO NOT allow wash water from cleaning or process equipment to enter drains. ▶ It may be necessary to collect all wash water for treatment before disposal. ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
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SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
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Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source	Ingredient	Pollution Category	Residual Concentration - Outside Special Area (% w/w)	Residual Concentration
IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances	polyethylene glycol	Not Available	Not Available	Not Available

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

<p>polyethylene glycol(25322-68-3) is found on the following regulatory lists</p>	<p>"US DOE Temporary Emergency Exposure Limits (TEELs)", "IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "US DOT Coast Guard Bulk Hazardous Materials - List of Flammable and Combustible Bulk Liquid Cargoes", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory", "US - Minnesota Hazardous Substance List", "OSPAR National List of Candidates for Substitution - United Kingdom", "Sigma-Aldrich Transport Information", "Acros Transport Information", "Fisher Transport Information", "International Fragrance Association (IFRA) Survey: Transparency List", "US FDA List of Indirect Additives Used in Food Contact Substances", "US FDA Indirect Food Additives - Substances for use as Components of Coatings - Resinous and polymeric coatings 21CFR 175-300", "US American Cleaning Institute Cleaning Product Ingredient Inventory", "US Cosmetic Ingredient Review (CIR) Cosmetic ingredients found safe as used", "US FDA Everything Added to Food in the United States (EAFUS)", "US Inventory of Effective Food Contact Substance Notifications", "US EPA High Production Volume Program Chemical List", "OECD List of High Production Volume (HPV) Chemicals", "International Numbering System for Food Additives", "US FDA CFSAN Food Additives Status List", "US FDA Indirect Food Additives: Adhesives and Components of Coatings - Substances for Use Only as Components of Adhesives - Adhesives"</p>
<p>Hydrochloric Acid(7647-01-0) is found on the following regulatory lists</p>	<p>"US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Corrosives", "US EPA Master Testing List - Index I Chemicals Listed", "US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants", "US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants", "US NIOSH Recommended Exposure Limits (RELs)", "US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants", "US - California Permissible Exposure Limits for Chemical Contaminants", "US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants", "US - Idaho - Limits for Air Contaminants", "US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)", "US - Minnesota Permissible Exposure Limits (PELs)", "US NFPA 45 Fire Protection for Laboratories Using Chemicals - Flammability Characteristics of Common Compressed and Liquefied Gases", "US ACGIH Threshold Limit Values (TLV)", "US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)", "US - California Occupational Safety and Health Regulations (CAL/OSHA) - Hazardous Substances List", "US DOE Temporary Emergency Exposure Limits (TEELs)", "US OSHA Permissible Exposure Levels (PELs) - Table Z1", "US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants", "International Maritime Dangerous Goods Requirements (IMDG Code) - Goods Forbidden for Transport", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "US Coast Guard, Department of Homeland Security Part 153: Ships Carrying Bulk Liquid, Liquefied gas or compressed gas hazardous materials. Table 1 to Part 153 --Summary of Minimum Requirements", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "US Department of Transportation (DOT), Hazardous Material Table", "US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide", "IMO IBC Code Chapter 17: Summary of minimum requirements", "US Department of Transportation (DOT) List of Hazardous Substances and Reportable Quantities - Hazardous Substances Other Than Radionuclides", "US OSHA List of Highly Hazardous Chemicals, Toxics and Reactives", "United Nations List of Precursors and Chemicals Frequently used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances Under International Control (Red List) - Table II", "US - Wyoming List of Highly Hazardous Chemicals, Toxics and Reactives", "US - Massachusetts Oil & Hazardous Material List", "US Drug Enforcement Administration (DEA) Concentration Limits for Chemical Mixtures", "United Nations Convention Against Illicit Traffic in Narcotic Drugs and Psychotropic Substances - Table II", "US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals", "US - Rhode Island Hazardous Substance List", "US - Pennsylvania - Hazardous Substance List", "US - New York List of Hazardous Substances", "US SARA Section 302 Extremely Hazardous Substances", "US - New Jersey Environmental Hazardous Substances List", "US - Florida Essential Chemicals", "US ACGIH Threshold Limit Values (TLV) - Carcinogens", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs", "US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory", "US Department of Homeland Security (DHS) - Chemical Facility Anti-Terrorism Standards (CFATS) - Chemicals of Interest", "US - Washington Permissible exposure limits of air contaminants", "US - Minnesota Hazardous Substance List", "US CWA (Clean Water Act) - Reportable Quantities of Designated Hazardous Substances", "Alaska List of Highly Hazardous Chemicals, Toxics and Reactives", "US - Oregon Hazardous Materials", "US CWA (Clean Water Act) - List of Hazardous Substances", "US - Massachusetts - Right To Know Listed Chemicals", "US - Ohio - Extremely Hazardous Substances - Threshold Quantities", "US - Minnesota Chemicals of High Concern", "US - Massachusetts Toxics Use Reduction Act (TURA) listed chemicals", "US EPA Integrated Risk Information System (IRIS)", "US - Alaska Limits for Air Contaminants", "US - Hawaii Air Contaminant Limits", "US - Michigan Exposure Limits for Air Contaminants", "US - Oregon Permissible Exposure Limits (Z-1)", "US - Arizona Acute and Chronic Ambient Air Concentrations", "US - Arizona State List of Hazardous Air Pollutants", "US - Arizona State Hazardous Air Pollutants (HAPs) De Minimis Levels", "US - North Dakota Air Pollutants - Guideline Concentrations", "US - Maine Hazardous Air Pollutants List and Reporting Thresholds", "US - Wisconsin Control of Hazardous Pollutants - Substances of Concern for Sources of Incidental Emissions of Hazardous Air Contaminants", "US - Connecticut Hazardous Air Pollutants", "US - Kentucky Listing of Hazardous Air Pollutants", "US EPA Acute Exposure Guideline Levels (AEGs) - Final", "US - California - 22 CCR - Hazardous Wastes and Hazardous Materials - Appendix X", "US - Wisconsin Control of Hazardous Pollutants - Emission Thresholds, Standards and Control Requirements (Hazardous Air Contaminants)", "US Clean Air Act - Hazardous Air Pollutants", "US - California -</p>

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Accidental Release Prevention (CalARP) - Table of Toxic Endpoints", "US - California - Accidental Release Prevention (CalARP) - Combined List of Chemicals and Threshold Quantities", "US - Delaware Pollutant Discharge Requirements - Reportable Quantities", "US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values", "Sigma-Aldrich Transport Information", "Acros Transport Information", "US - Louisiana Minimum Emission Rates Toxic Air Pollutants", "Fisher Transport Information", "US - California Toxic Air Contaminant List Category II", "US - Louisiana Toxic Air Pollutant Ambient Air Standards", "US EPA High Production Volume Chemicals Additional List", "International Council of Chemical Associations (ICCA) - High Production Volume List", "US FDA CFSAN GRAS Substances evaluated by the Select Committee on GRAS Substances (SCOGS)", "US American Cleaning Institute Cleaning Product Ingredient Inventory", "US USDA National Organic Program - Synthetic substances allowed for use in organic crop production", "International Numbering System for Food Additives", "US FDA CFSAN Food Additives Status List", "US EPCRA Section 313 Chemical List", "US FDA Everything Added to Food in the United States (EAFUS)", "CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP", "US List of Lists - Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112(r) of the Clean Air Act", "US - New Jersey Right to Know Hazardous Substances (English)", "US FDA Direct Food Substances Generally Recognized as Safe", "OECD List of High Production Volume (HPV) Chemicals", "International Maritime Dangerous Goods Requirements (IMDG Code)", "Belgium Federal Public Service Mobility and Transport, Regulations concerning the International Carriage of Dangerous Goods by Rail - Table A: Dangerous Goods List - RID 2013 (Dutch)", "US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID) Number", "International Air Transport Association (IATA) Dangerous Goods Regulations", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "US - California Air Toxics "Hot Spots" List (Assembly Bill 2588) Substances for Which Emissions Must Be Quantified", "US - Massachusetts Drinking Water - Secondary Contaminants Maximum Contaminant Levels (MCLs)", "US - Utah Secondary Drinking Water Standards - Inorganic Contaminants", "WHO Guidelines for Drinking-water Quality - Chemicals for which guideline values have not been established"

SECTION 16 OTHER INFORMATION**Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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