

# **ERAPOL E83A**

### Era Polymers Pty Ltd

Chemwatch: 9-49385 Version No: 1.1 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

### Chemwatch Hazard Alert Code: 2

Issue Date: 10/03/2014 Print Date: 10/03/2014 Initial Date: 10/03/2014 S.GHS.USA.EN

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

### **Product Identifier**

Product name	ERAPOL E83A
Chemical Name	Not Applicable
Synonyms	Not Available
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 Use according to manufacturer's directions. Polyurethane prepolymer	
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### Details of the supplier of the safety data sheet

Registered company name	Era Polymers Pty Ltd
Address	25-27 Green Street 2019 NSW Australia
Telephone	+61 (0)2 9666 3788
Fax	+61 (0)2 9666 4805
Website	www.erapol.com.au
Email	erapol@erapol.com.au

### **Emergency telephone number**

Association / Organisation	CHEMWATCH		
Emergency telephone numbers	Not Available		
Other emergency telephone numbers	Not Available	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

### CHEMWATCH EMERGENCY RESPONSE

Primary Number	Alternative Number 1	Alternative Number 2
877 715 9305	+612 9186 1132	Not Available

Once connected and if the message is not in your prefered language then please dial 01 Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

### SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

### CHEMWATCH HAZARD RATINGS



GHS Classification Acute Toxicity (Inhalation) Category 4, Respiratory Sensitizer Category 1, Carcinogen Category 2

### Label elements

GHS label elements	

SIGNAL WORD DANGER

### Hazard statement(s)

H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H351	Suspected of causing cancer

### Precautionary statement(s): Prevention

P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P103	Read label before use.	
P201	Obtain special instructions before use.	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P284	[In case of inadequate ventilation] wear respiratory protection.	

### Precautionary statement(s): Response

r reductionary statement(s). Response		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
Precautionary statement(s): Storage		
P405	Store locked up.	
Precautionary statement(s): Disposal		
P501	Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration	

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
Not Available	>60	Polyurethane prepolymer (TDI/PTMEG)
584-84-9	<1	toluene-2,4-diisocyanate

# SECTION 4 FIRST AID MEASURES

Description of first aid measures	
Eye Contact	If this product comes in contact with eyes: <ul> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin or hair contact occurs: <ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> <li>Following uptake by inhalation, move person to an area free from risk of further exposure. Oxygen or artificial respiration should be administered as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic. A physician should be consulted.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>
Indication of any immediate medical	attention and special treatment needed

Toluene diisocyanate is a known pulmonary sensitiser. Annual medical surveillance should be conducted including pulmonary history, examination of the heart and lungs,  $14 \times 17$  inch ( $35 \times 47$  cm) x-ray and pulmonary function testing (FCV, FEV1).

### SECTION 5 FIREFIGHTING MEASURES

### Extinguishing media

There is no restriction on the type of extinguisher which may be used.
<ul> <li>Use extinguishing media suitable for surrounding area.</li> </ul>

### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.		
Advice for firefighters			
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT</li> </ul>		
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit poisonous fumes.</li> </ul>		

### SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul>
	Personal Protective Equipment advice is contained in Section 8 of the MSDS.

### SECTION 7 HANDLING AND STORAGE

# Precautions for safe handling Safe handling Prevent concentration in hollows and sumps. DO NOT

### Conditions for safe storage, including any incompatibilities

Other information

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	None known <ul> <li>NOTE: May develop pressure in containers; open carefully. Vent periodically.</li> <li>Segregate from alcohol, water.</li> </ul>

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)	toluene- 2,4-diisocyanate	Toluene-2,4- or 2,6-diisocyanate (or as a mixture)	0.005 (ppm)	0.02 (ppm)	Not Available	TLV® Basis: (Resp sens)

US OSHA Permissible Exposure Levels (PELs) - Table Z1	toluene- 2,4-diisocyanate	Toluene-2,	4-diisocyanate (TDI)	Not Availa	ble	Not Available	0.14 (mg/m (ppm)	13) / 0.02	Not Available
US NIOSH Recommended Exposure Limits (RELs)			Not Availa	ble	Not Available	Not Availat	ble	Ca See Appendix /	
EMERGENCY LIMITS									
Ingredient	TEEL-0		TEEL-1		TEE	L-2		TEEL-3	:
toluene-2,4-diisocyanate	0.005 / 0.25(ppm)		0.02 / 0.75(ppm)		0.08	3 / 1.5(ppm)		0.51 / 1.	5(ppm)
Ingredient	Original IDLH				Revis	ed IDLH			
ERAPOL E83A	Not Available				Not Av	ailable			
xposure controls	Engineering controls	are used to ren	nove a hazard or place a	barrier betwe	een the	worker and the	hazard. Well-d	lesigned er	ngineering controls
Appropriate engineering controls	can be highly effectiv The basic types of en Process controls whi	re in protecting v ngineering contri ch involve chan lation of emissio	vorkers and will typically to rols are: ging the way a job activity n source which keeps a s	e independe or process i	ent of w is done	orker interactior to reduce the ri	ns to provide thi sk.	s high level	l of protection.
Personal protection									
Eye and face protection	<ul> <li>Chemical goggl</li> <li>Contact lenses r the wearing of length</li> </ul>	<ul> <li>Safety glasses with side shields</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.</li> </ul>							
Skin protection	See Hand protection	See Hand protection below							
Hand protection	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. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Suitability and durability of glove type is dependent on usage.								
Body protection	See Other protection	See Other protection below							
Other protection	<ul> <li>Overalls.</li> <li>P.V.C. apron.</li> <li>Barrier cream.</li> <li>Skin cleansing c</li> </ul>	<ul> <li>Overalls.</li> <li>P.V.C. apron.</li> </ul>							
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  $\ computer-$ 

### generated

ERAPOL E83A Not Available

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

NOTE

### Respiratory protection

Type A-P Filter of sufficient capacity

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	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-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	Clear light amber		
Physical state	Liquid	Relative density (Water = 1)	1.05
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
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 Available
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 Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Reacts	pH as a solution(1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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.
Ingestion	The material has <b>NOT</b> 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. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident.
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. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
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	On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. Practical evidence shows that inhalation of the material is capable of inducing a sensitisation reaction in a substantial number of individuals at a greater frequency than would be expected from the response of a normal population. Pulmonary sensitisation, resulting in hyperactive airway dysfunction and pulmonary allergy may be accompanied by fatigue, malaise and aching. Significant symptoms of exposure may persist for extended periods, even after exposure ceases. Symptoms can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes and passive smoking.

ERAPOL E83A	TOXICITY	IRRITATION
ERAPUL E03A	Not Available	Not Available
	TOXICITY	IRRITATION
toluene-2,4-diisocyanate	Inhalation (rat) LC50: 14 ppm/14 hr	Eye (rabbit): 100 mg - SEVERE
, , , , , , , , , , , , , , , , ,	Inhalation (rat) LC50: 600 ppm/6 hr	Skin (rabbit): 500 mg(open)-SEVERE

Oral (rat) LD50: 5800 mg/kg	Skin (rabbit):500 mg/24hr-moderate
Not Available	Not Available

ERAPOL E83A	Allergic reactions which develop in the respiratory passages as bronchial asthma or rhinoconjunctivitis, are mostly the result of reactions of the allergen with specific antibodies of the IgE class and belong in their reaction rates to the manifestation of the immediate type. In addition to the allergen-specific potential for causing respiratory sensitisation, the amount of the allergen, the exposure period and the genetically determined disposition of the exposed person are likely to be decisive. Factors which increase the sensitivity of the mucosa may play a role in predisposing a person to allergy. They may be genetically determined or acquired, for example, during infections or exposure to irritant substances. Immunologically the low molecular weight substances become complete allergens in the organism either by binding to peptides or proteins (haptens) or after metabolism (prohaptens).
TOLUENE-2,4-DIISOCYANATE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important.

Acute Toxicity	✓ Carcinogenicity	×
Skin Irritation/Corrosion	S Reproductivity	0
Serious Eye Damage/Irritation	STOT - Single Exposure	0
Respiratory or Skin sensitisation	✓ STOT - Repeated Exposure	0
Mutagenicity	S Aspiration Hazard	0

# CMR STATUS

CARCINOGEN	toluene-US Air Toxics Hot Spots TSD for Describing Available Cancer Potency2B P65-MC Ca See2,4-diisocyanateFactors US Environmental Defense Scorecard Recognized CarcinogensAppendix A P65	
RESPIRATORY	toluene- 2,4-diisocyanate US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs) - Respiratory	X ^
SKIN	toluene-2,4-diisocyanate US ACGIH Threshold Limit Values (TLV) Notice of Intended Changes - Skin Ye	′es

# SECTION 12 ECOLOGICAL INFORMATION

# Toxicity

### DO NOT discharge into sewer or waterways.

### 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 N	Mobility
Not Available N	Not Available

# SECTION 13 DISPOSAL CONSIDERATIONS

Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> </ul>
	<ul> <li>Otherwise:</li> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> </ul>
	Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

# **SECTION 14 TRANSPORT INFORMATION**

# Labels Required

Marine Pollutant NO

### 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

### **SECTION 15 REGULATORY INFORMATION**

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

"International Maritime Dangerous Goods Requirements (IMDG Code)", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk","International Council of Chemical Associations (ICCA) - High Production Volume List", "US - Louisiana Toxic Air Pollutant Ambient Air Standards", "US - California Air Toxics "Hot Spots" List (Assembly Bill 2588) Substances for Which Emissions Must Be Quantified", "US TSCA Section 8 (d) - Health and Safety Data Reporting", "US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants","US - California 22 CCR - Appendix VII -Basis for Listing Hazardous Waste", "US - RCRA (Resource Conservation Recovery Act) - Basis for Listing Hazardous Waster","US CAA (Clean Air Act) - HON Rule - Synthetic Organic Chemical Manufacturing Industry Chemicals", "International Maritime Dancerous Goods Requirements (IMDG Code) - Substance Index", "US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID) Number", "US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens", "US - Idaho - Limits for Air Contaminants", "US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide", "US - California Permissible Exposure Limits for Chemical Contaminants", "US ACGIH Threshold Limit Values (TLV) -Carcinogens", "US - Kentucky Listing of Hazardous Air Pollutants", "US - Hawaii Air Contaminant Limits", "United Nations Recommendations on the Transport of Dangerous Goods Model Regulations (English)","FisherTransport Information","US - California - Accidental Release Prevention (CalARP) - Combined List of Chemicals and Threshold Quantities", "US - New York List of Hazardous Substances", "US - Vermont Hazardous Constituents", "US - California 22 CCR - Toxic Wastes or Toxic Substances", "US EPCRA Section 313 Chemical List", "US FDA Indirect Food Additives: Adhesives and Components of Coatings - Substances for Use Only as Components of Adhesives - Adhesives,","US Massachusetts Toxics Use Reduction Act (TURA) listed chemicals", "US - Arizona State List of Hazardous Air Pollutants", "US CAA (Clean Air Act) - HON Rule - Organic HAPs (Hazardous Air Pollutants)", "US - New Jersey Environmental Hazardous Substances List", "US - New Jersey Right to Know Hazardous Substances (English)","OECD List of High Production Volume (HPV) Chemicals","US - Minnesota Hazardous Substance List", "US - Oregon Permissible Exposure Limits (Z-1)", "US - Louisiana Minimum Emission Rates Toxic Air Pollutants", "US -Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants", "US National Toxicology Program (NTP) 12th Report Part B. Reasonably Anticipated to be a Human Carcinogen", "US - Michigan Exposure Limits for Air Contaminants", "US - California - 22 CCR -Hazardous Wastes and Hazardous Materials - Appendix X","US - Oregon Permissible Exposure Limits (Z-2)","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", "US NFPA Hazardous Chemical Data Sheets Information", "US NFPA Hazardous Chemical Data Compilation", "US toluene-2,4-diisocyanate(584-84-9) is - North Dakota Air Pollutants - Unit Risk Factors","US - Vermont Hazardous wastes which are Discarded Commercial Chemical Products or found on the following regulatory lists Off-Specification Batches of Commercial Chemical Products or Spill Residues of Either","US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Reactive Materials", "US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values","US - Washington Permissible exposure limits of air contaminants","US - Maine Hazardous Air Pollutants List and Reporting Thresholds","US List of Lists - Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112(r) of the Clean Air Act","US DOE Temporary Emergency Exposure Limits (TEELs)", "US NIOSH Recommended Exposure Limits (RELs)", "US - Alaska Limits for Air Contaminants", "US - North Dakota Air Pollutants - Guideline Concentrations", "US California - Aerosol Coating Product Emissions - Maximum Incremental Reactivity (MIR) Values", "United Nations Recommendations on the Transport of Dangerous Goods Model Regulations (Spanish)", "Sigma-AldrichTransport Information", "US - Rhode Island Hazardous Substance List", "US - Washington Discarded Chemical Products List - "U" Chemical Products", "US - Delaware Pollutant Discharge Requirements - Reportable Quantities", "US National Toxicology Program (NTP) 12th Report Part A Known to be Human Carcinogens","US - Wisconsin Control of Hazardous Pollutants - Substances of Concern for Sources of Incidental Emissions of Hazardous Air Contaminants"."US - California Occupational Safety and Health Regulations (CAL/OSHA) - Hazardous Substances List", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "Regulations concerning the International Carriage of Dangerous Goods by Rail - Table A: Dangerous Goods List - RID 2013 (English)","International Air Transport Association (IATA) Dangerous Goods Regulations", "US - California Toxic Air Contaminant List Category II", "US SARA Section 302 Extremely Hazardous Substances", "US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants", "US RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents", "US - Maine Chemicals of Concern List", "US ACGIH Threshold Limit Values (TLV)","US - Massachusetts - Right To Know Listed Chemicals","US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)","US FDA List of "Indirect" Additives Used in Food Contact Substances","IMO IBC Code Chapter 17: Summary of minimum requirements", "US Clean Air Act - Hazardous Air Pollutants", "US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens", "US - Pennsylvania - Hazardous Substance List", "US - Connecticut Hazardous Air Pollutants", "US EPA High Production Volume Program Chemical List"."US - Massachusetts Oil & Hazardous Material List"."US OSHA Permissible Exposure Levels (PELs) - Table Z1","US Department of Transportation (DOT) List of Hazardous Substances and Reportable Quantities - Hazardous Substances Other Than Radionuclides", "US EPA Acute Exposure Guideline Levels (AEGLs) - Final", "US - Wisconsin Control of Hazardous Pollutants -Emission Thresholds, Standards and Control Requirements (Hazardous Air Contaminants)", "US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants"

### **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 Chernwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at: <u>www.chemwatch.net/references</u>

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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