

#### 000000503827

Version Number 1.1 Revision Date 10/29/2015 Page 1 of 16 Print Date 10/30/2015

# SAFETY DATA SHEET

#### 000000503827

## **Section 1. Identification**

GHS product identifier : 000000503827
Chemical name : Mixture
CAS number : Mixture
Other means of identification : FO20034559
Product type : liquid

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

**Product use** : Industrial applications. Plastics.

Supplier's details : POLYONE CORPORATION

33587 Walker Road, Avon Lake, OH 44012

1 (440) 930-1000 or 1 (866) POLYONE

Emergency telephone number

(with hours of operation)

CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure

or accident). CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire,

exposure or accident).

## Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Classification of the substance or

mixture

: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

SKIN SENSITIZATION - Category 1

#### **GHS** label elements



000000503827

Version Number 1.1 Page 2 of 16 Revision Date 10/29/2015 Print Date 10/30/2015

Hazard pictograms

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Signal word : Warning

**Hazard statements** : Causes eye irritation.

May cause an allergic skin reaction.

**Precautionary statements** 

**General** : Not applicable.

Prevention : Wear protective gloves. Wear eye or face protection. Avoid breathing

vapor. Wash hands thoroughly after handling. Contaminated work

clothing should not be allowed out of the workplace.

**Response**: IF ON SKIN: Wash with plenty of soap and water. Wash

contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. 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 attention.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local,

regional, national and international regulations.

**Supplemental label elements** : None known. **Hazards not otherwise classified** : None known.

# Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: MixtureOther means of identification: FO20034559

#### CAS number/other identifiers

Ingredient name	%	CAS number
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	30 - 60	68515-48-0
Petroleum distillates, hydrotreated light naphthenic	1 - 5	64742-53-6
Bisphenol A - Epichlorohydrin polymer	1 - 5	25068-38-6



## 000000503827

Version Number 1.1 Revision Date 10/29/2015 Page 3 of 16 Print Date 10/30/2015

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### **Description of necessary first aid measures**

Skin contact

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

: Wash with plenty of soap and water. Remove contaminated clothing

and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

**Ingestion**: Wash out mouth with water. Remove dentures if any. Remove victim

to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,

belt or waistband.



#### 000000503827

Version Number 1.1 Page 4 of 16 Print Date 10/30/2015 Revision Date 10/29/2015

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact Causes eye irritation.

Inhalation No known significant effects or critical hazards.

Skin contact May cause an allergic skin reaction.

**Ingestion** May be irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Adverse symptoms may include the following: Eye contact

> irritation watering redness

Inhalation No specific data.

Adverse symptoms may include the following: Skin contact

> irritation redness

**Ingestion** No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

No specific treatment. **Specific treatments** 

**Protection of first-aiders** No action shall be taken involving any personal risk or without

> suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

None known.

Specific hazards arising from the

chemical

In a fire or if heated, a pressure increase will occur and the container

may burst.

**Hazardous thermal** May emit Hydrogen Chloride (HCl).



#### 000000503827

Version Number 1.1 Revision Date 10/29/2015 Page 5 of 16 Print Date 10/30/2015

**decomposition products** Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds

Special protective actions for fire-

fighters

Special protective equipment for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any

personal risk or without suitable training.

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is

inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See

also the information in "For non-emergency personnel".

**Environmental precautions**: Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil

or air).

#### Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with

water and mop up if water-soluble. Alternatively, or if water-

insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal

contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach

release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste

5/16



#### 000000503827

Version Number 1.1 Revision Date 10/29/2015 Page 6 of 16 Print Date 10/30/2015

disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Petroleum distillates, hydrotreated light	ACGIH TLV (2009-11-30)
naphthenic	TLV-TWA: Threshold Limit Value - Time weighted average PEL:
	Permissible Exposure Level 5 mg/m3 Form: Inhalable fraction
	•

Appropriate engineering controls

Good general ventilation should be sufficient to control worker



## 000000503827

Version Number 1.1 Revision Date 10/29/2015 Page 7 of 16 Print Date 10/30/2015

**Environmental exposure controls** 

exposure to airborne contaminants.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

## **Skin protection**

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

7/16



#### 000000503827

Version Number 1.1 Page 8 of 16 Revision Date 10/29/2015 Print Date 10/30/2015

## Section 9. Physical and chemical properties

#### **Appearance**

Physical state : liquid

Color NO PIGMENT Odor Not available. Not available. **Odor threshold** pН Not available. **Melting point** Not available. **Boiling point** Not available. Flash point Not available. **Burning time** Not available. **Burning rate** Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressure
Vapor density
Relative density
Solubility
Not available.

octanol/water

products

Auto-ignition temperature: Not available.Decomposition temperature: Not available.SADT: Not available.

Viscosity : Dynamic: Not available.

Kinematic: Not available.

# Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or

its ingredients.

Chemical stability : Stable under recommended storage and handling conditions (see

Section 7).

**Possibility of hazardous reactions**: Under normal conditions of storage and use, hazardous reactions will

not occur.

**Conditions to avoid** : Keep away from extreme heat and oxidizing agents.

Incompatible materials : Avoid contact with acetal homopolymers and acetyl homopolymers

during processing.

**Hazardous decomposition** : Under normal conditions of storage and use, hazardous decomposition

products should not be produced.



## 000000503827

Version Number 1.1 Revision Date 10/29/2015 Page 9 of 16 Print Date 10/30/2015

# Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

## **Information on toxicological effects**

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure	
1,2-Benzenedicarboxylic acid,	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich				
	LD50 Oral	Rat	10,000 mg/kg	-	
Petroleum distillates, hydrotrea	ated light naphthenic	,			
	LD50 Oral	Rat	5,000 mg/kg	-	
	LC50 Inhalation	Rat	2 mg/l	4 h	
Bisphenol A - Epichlorohydrir	polymer				
	LD50 Oral	Rat	13,600 mg/kg	-	
	LD50 Oral	Rat	11,400 mg/kg	-	
	LD50 Oral	Rat	11,400 mg/kg	-	
	LD50 Oral	Rat	30,000 mg/kg	-	
	LD50 Oral	Rat	30,000 mg/kg	-	
	LD50 Oral	Rat	30,000 mg/kg	-	
	LD50 Oral	Rat	30,000 mg/kg	-	
	LD50 Oral	Rat	13,600 mg/kg	-	

**Conclusion/Summary** : Mixture.Not fully tested.

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
1,2-Benzenedicarboxylic acid, di-C8-10-branched	Eyes - Mild irritant	Rabbit			-
alkyl esters, C9-rich					
Petroleum distillates, hydrotreated light naphthenic	Skin - Severe irritant	Rabbit			-
	Skin - Moderate irritant	Rabbit		24 hrs	-
Bisphenol A - Epichlorohydrin polymer	Eyes - Mild irritant	Rabbit			-
	Eyes - Mild irritant	Rabbit			-
	Skin -	Rabbit		24 hrs	-

9/16



## 000000503827

Version Number 1.1 Revision Date 10/29/2015 Page 10 of 16 Print Date 10/30/2015

Moderate irritant			
Skin - Severe irritant	Rabbit	24 hrs	-
Eyes - Mild irritant	Rabbit		-

**Conclusion/Summary** 

Skin:Mixture.Not fully tested.Eyes:Mixture.Not fully tested.Respiratory:Mixture.Not fully tested.

**Sensitization** 

Conclusion/Summary

Skin: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.

**Mutagenicity** 

**Conclusion/Summary** : Mixture.Not fully tested.

**Carcinogenicity** 

Conclusion/Summary : Mixture.Not fully tested.

**Reproductive toxicity** 

**Conclusion/Summary**: Mixture.Not fully tested.

**Teratogenicity** 

Conclusion/Summary : Mixture.Not fully tested.

**Specific target organ toxicity (single exposure)** 

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

**Information on the likely routes of** :

Not available.

exposure

Potential acute health effects



#### 000000503827

Version Number 1.1 Page 11 of 16 Revision Date 10/29/2015 Print Date 10/30/2015

**Eve contact** : Causes eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : May cause an allergic skin reaction.

**Ingestion** : May be irritating to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

irritation watering redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

**Conclusion/Summary** : Mixture.Not fully tested.

**General**: Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

## **Acute toxicity estimates**



## 000000503827

 Version Number 1.1
 Page 12 of 16

 Revision Date 10/29/2015
 Print Date 10/30/2015

Route	ATE value
Oral	118,635.2 mg/kg
Route	ATE value
Inhalation (dusts and mists)	47.45 mg/l

# Section 12. Ecological information

**Toxicity** 

Conclusion/Summary : Not available.

Persistence and degradability

**Conclusion/Summary** : Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1,2-Benzenedicarboxylic	8.8	3.00	low
acid, di-C8-10-branched			
alkyl esters, C9-rich			
Bisphenol A -	2.64 - 3.78	31.00	low
Epichlorohydrin polymer			

#### **Mobility in soil**

**Soil/water partition coefficient** : Not available.

(KOC)

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever

possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered



#### 000000503827

Version Number 1.1 Revision Date 10/29/2015 Page 13 of 16 Print Date 10/30/2015

when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

## **Section 14. Transport information**

U.S. DOT Classification : Not regulated for transportation.

ICAO/IATA : Consult mode specific transport rules

IMO/IMDG (maritime) : Consult mode specific transport rules

## **Section 15. Regulatory information**

U.S. Federal regulations

United States - TSCA 12(b) - Chemical export notification: None

of the components are listed.

United States - TSCA 4(a) - Final Test Rules: Listed 1,2-

Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich

United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed

United States - TSCA 5(a)2 - Final significant new use rules: Not

listed

United States - TSCA 5(a)2 - Proposed significant new use rules:

Not listed

United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not

determined

United States - TSCA 8(a) - Preliminary assessment report

(PAIR): Not listed

United States - TSCA 8(c) - Significant adverse reaction (SAR):

Not listed

United States - TSCA 8(d) - Health and safety studies: Not listed



000000503827

Version Number 1.1 Revision Date 10/29/2015

Page 14 of 16 Print Date 10/30/2015

United States - TSCA 6 - Final risk management: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Miscellaneous Zinc Compounds Vinyl chloride monomer

United States - EPA Clean water act (CWA) section 311 -

Hazardous substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Flammable substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Toxic substances: Not listed

**United States - Department of commerce - Precursor chemical:** 

Not listed

Clean Air Act Section 112(b)

Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I

Substances

Clean Air Act Section 602 Class II

**Substances** 

**DEA List I Chemicals (Precursor** 

Chemicals)

Chemicals)

Not listed

Not listed Not listed

Not listed

**DEA List II Chemicals (Essential** Not listed

## US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

## SARA 311/312

Classification Immediate (acute) health hazard

#### **Composition/information on ingredients**

Name	%	Classification
1,2-Benzenedicarboxylic acid, di-	30 - 60	AH
C8-10-branched alkyl esters, C9-		
rich		
Petroleum distillates,	1 - 5	AH
hydrotreated light naphthenic		
Bisphenol A - Epichlorohydrin	1 - 5	AH
polymer		

#### **SARA 313**



#### 000000503827

Version Number 1.1 Page 15 of 16 Revision Date 10/29/2015 Print Date 10/30/2015

Not applicable.

**State regulations** 

Massachusetts : The following components are listed:

Petroleum distillates, hydrotreated light naphthenic

New York

None of the components are listed.

New Jersey

The following components are listed:

Ethene, chloro-, homopolymer

**Pennsylvania** : None of the components are listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

United States inventory (TSCA 8b) : All components are listed or exempted.

Canada inventory : Not determined.

**International regulations** 

International lists : Australia inventory (AICS): Not determined.

Taiwan inventory (CSNN): Not determined.

Malaysia Inventory (EHS Register): Not determined.

**EINECS:** Not determined.

Japan inventory: Not determined.

China inventory (IECSC): Not determined.

Korea inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

**Philippines inventory (PICCS):** Not determined.

**Chemical Weapons Convention** 

**List Schedule I Chemicals** 

Not listed

**Chemical Weapons Convention** 

List Schedule II Chemicals

Not listed

**Chemical Weapons Convention** 

: Not listed

List Schedule III Chemicals

## **Section 16. Other information**

**History** 

Date of printing: 10/30/2015Date of issue/Date of revision: 10/29/2015Date of previous issue: 02/26/2015

Version : 1.1

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor



## 000000503827

Version Number 1.1 Revision Date 10/29/2015 Page 16 of 16 Print Date 10/30/2015

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

UN = United Nations

**References** : Not available.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.