

# SAFETY DATA SHEET

# RAMUC® KOP-COAT

Revision Date 07-Oct-2015  
Version 1

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** Ramuc Type EP Hi-Build Epoxy Black - Part A  
**Product code** 912232102

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

**Recommended Use** Paint  
**Restrictions on use** Read label instructions and SDS

### 1.3 Details of the supplier of the safety data sheet

**Supplier** Kop-Coat, Inc.  
RAMUC  
36 Pine Street  
Rockaway, NJ 07866  
1-800-221-4466

### 1.4 Emergency telephone number

**Emergency telephone number** Chemtrec: +1 703-527-3887 ex-USA  
Chemtrec: 1-800-424-9300 USA

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910.1200**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 3

### 2.2 Label elements

#### **Signal Word**

Warning

#### **Hazard Statements**

Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure  
Flammable liquid and vapor

**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Wash face, hands and any exposed skin thoroughly after handling  
 Contaminated work clothing must not be allowed out of the workplace  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Ground/Bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting/equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/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 advice/attention  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 Wash contaminated clothing before reuse  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**2.3. Other Hazards Hazards not otherwise classified (HNOC)**

Not Applicable

**2.4 Other information**

Not Applicable

**Unknown Acute Toxicity** < 1% of the mixture consists of ingredient(s) of unknown toxicity

### 3. Composition/Information on Ingredients

**Substance**

Not applicable

**Mixture**

Chemical Name	CAS-No	Weight %
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	40 - 50
Talc	14807-96-6	20 - 30
Xylene	1330-20-7	5 - 10
Methyl isobutyl ketone	108-10-1	5 - 10

Ethylbenzene	100-41-4	1 - 5
Calcium carbonate (Limestone)	1317-65-3	1 - 5
Carbon black	1333-86-4	< 1
Toluene	108-88-3	< 1

The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First aid measures

##### 4.1 Description of first-aid measures

<b>General advice</b>	For further assistance, contact your local Poison Control Center.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Call a poison control center or doctor for treatment advice.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Call a poison control center or doctor for treatment advice.
<b>Inhalation</b>	Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a poison control center or doctor for treatment advice.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position. Call a physician or poison control center immediately.

##### 4.2 Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	See Section 2.2, Label Elements and/or Section 11, Toxicological effects.
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##### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	There is no specific antidote for effects from overexposure to this material. Treat symptomatically.
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#### 5. Fire-Fighting Measures

##### 5.1 Extinguishing media

###### Suitable extinguishing media

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray or fog. Water may be used to cool and prevent the rupture of containers that are exposed to the heat from a fire.

**Unsuitable Extinguishing Media** Water may be unsuitable for extinguishing fires.

##### 5.2 Special hazards arising from the substance or mixture

###### Special Hazard

Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks) Vapors may travel to areas away from work site before igniting/flashing back to vapor source Thermal decomposition can lead to release of irritating gases and vapors

**Hazardous Combustion Products** Possible formation of carbon oxides, nitrogen oxides, and hazardous organic compounds.

###### Explosion Data

**Sensitivity to Mechanical Impact** Not sensitive.

**Sensitivity to Static Discharge** Yes.

##### 5.3 Advice for firefighters

Evacuate personnel to safe areas. Move non-burning material, as feasible, to a safe location as soon as possible. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool

containers with flooding quantities of water until well after fire is out. Thoroughly decontaminate all protective equipment after use. DO NOT extinguish a fire resulting from the flow of flammable liquid until the flow of the liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished.

## 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. Refer to protective measures listed in sections 7 and 8. Avoid exceeding of the given occupational exposure limits (see section 8). Personal protection needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the training and the expertise of employees in the area responding to the spill.

### 6.2 Environmental precautions

Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological information.

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

#### Methods for Containment

Dike far ahead of liquid spill for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Ground and bond containers when transferring material. Take precautionary measures against static discharges. Use non-sparking tools and equipment.

## 7. Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Ensure adequate ventilation. Ground and bond containers when transferring material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Use according to package label instructions. Empty containers may retain product residue or vapor. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. No smoking.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in properly labeled containers. Keep away from food, drink and animal feedingstuffs. Store in accordance with local regulations.

#### Materials to Avoid

No materials to be especially mentioned.

## 8. Exposure controls/personal protection

### 8.1 Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	British Columbia	Alberta	Quebec	Ontario TWAEV
Talc 14807-96-6	TWA: 2 mg/m <sup>3</sup> particulate matter	TWA: 20 mppcf if 1% Quartz or more.	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>

	containing no asbestos and <1% crystalline silica, respirable fraction	use Quartz limit				
Xylene 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 434 mg/m <sup>3</sup> STEL: 150 ppm STEL: 651 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 434 mg/m <sup>3</sup> STEL: 150 ppm STEL: 651 mg/m <sup>3</sup>	TWA: 100 ppm STEL: 150 ppm
Methyl isobutyl ketone 108-10-1	STEL: 75 ppm TWA: 20 ppm	TWA: 100 ppm TWA: 410 mg/m <sup>3</sup>	TWA: 20 ppm STEL: 75 ppm	TWA: 50 ppm TWA: 205 mg/m <sup>3</sup> STEL: 75 ppm STEL: 307 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 205 mg/m <sup>3</sup> STEL: 75 ppm STEL: 307 mg/m <sup>3</sup>	TWA: 20 ppm STEL: 75 ppm
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	TWA: 20 ppm	TWA: 100 ppm TWA: 434 mg/m <sup>3</sup> STEL: 125 ppm STEL: 543 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 434 mg/m <sup>3</sup> STEL: 125 ppm STEL: 543 mg/m <sup>3</sup>	TWA: 20 ppm
Calcium carbonate (Limestone) 1317-65-3	-	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	
Carbon black 1333-86-4	TWA: 3 mg/m <sup>3</sup> inhalable fraction	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm Ceiling: 300 ppm	TWA: 20 ppm Adverse reproductive effect	TWA: 50 ppm TWA: 188 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 188 mg/m <sup>3</sup> Skin	TWA: 20 ppm

### 8.2 Appropriate engineering controls

#### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use adequate ventilation to maintain airborne concentrations at levels below permissible or recommended occupational exposure limits.

### 8.3 Individual protection measures, such as personal protective equipment

#### Eye/Face Protection

Safety glasses with side-shields. If splashes are likely to occur, wear: Tightly fitting safety goggles. Face-shield.

#### Skin and body protection

Solvent-resistant gloves. Nitrile rubber, Neoprene gloves. Impervious butyl rubber gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Wear suitable protective clothing. Remove and wash contaminated clothing before re-use.

#### Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

#### Hygiene measures

See section 7 for more information

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	No information available
Color	Black
Odor	Solvent
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH		No information available
Melting/freezing point		No information available
Boiling point/boiling range	114-261	
Flash Point	28 °C / 82 °F	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity		No information available
Water solubility		No information available
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic	> 22 mm <sup>2</sup> /s	
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidizing Properties		No information available

### 9.2 Other information

Volatile organic compounds (VOC) content	228 g/L
Density	10.69 lb/gal

## 10. Stability and Reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to Avoid

Keep away from heat, sparks and flames.

### 10.5 Incompatible Materials

No materials to be especially mentioned.

### 10.6 Hazardous Decomposition Products

None under normal use conditions. Thermal decomposition can lead to release of irritating gases and vapors.

## 11. Toxicological information

### 11.1 Acute toxicity

#### Numerical measures of toxicity: Product Information

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

**Unknown Acute Toxicity** < 1% of the mixture consists of ingredient(s) of unknown toxicity

**Oral LD50** 9,570.00 mg/kg  
**Dermal LD50** 23,789.00 mg/kg  
**LC50 (Vapor)** 67.00 mg/l

#### Numerical measures of toxicity: Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) 25068-38-6	11400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Xylene 1330-20-7	3500 mg/kg ( Rat )	> 4350 mg/kg ( Rabbit )	= 29.08 mg/L ( Rat ) 4 h
Methyl isobutyl ketone 108-10-1	2080 mg/kg ( Rat )	= 3000 mg/kg ( Rabbit )	> 2000 ppm ( Rat ) 4 h
Ethylbenzene 100-41-4	3500 mg/kg ( Rat )	= 15400 mg/kg ( Rabbit )	= 17.2 mg/L ( Rat ) 4 h
Toluene 108-88-3	2600 mg/kg ( Rat )	= 12000 mg/kg ( Rabbit )	= 28.1 mg/L ( Rat ) 4 h

### 11.2 Information on toxicological effects

#### Skin corrosion/irritation

##### Product Information

- No information available

##### Component Information

- No information available

#### Eye damage/irritation

##### Product Information

- No information available

##### Component Information

- No information available

#### Respiratory or skin sensitization

##### Product Information

- No information available

##### Component Information

- No information available

#### Germ cell mutagenicity

##### Product Information

- No information available

##### Component Information

- No information available

#### Carcinogenicity

##### Product Information

- The table below indicates whether each agency has listed any ingredient as a carcinogen

##### Component Information

- Contains a known or suspected carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl isobutyl ketone 108-10-1	-	Group 2B	-	
Ethylbenzene 100-41-4	-	Group 2B	-	
Carbon black 1333-86-4	-	Group 2B	-	

**Reproductive toxicity**Product Information

- No information available

Component Information

- No information available

**STOT - single exposure**

No information available

**STOT - repeated exposure**

- No information available

**Other adverse effects**Product Information

- No information available

Component Information

- No information available

**Aspiration hazard**Product Information

- No information available

Component Information

- No information available

## 12. Ecological information

**12.1 Toxicity****Ecotoxicity**

No information available

< 1 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

**Ecotoxicity effects**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Talc 14807-96-6	-	LC50: 96 h Brachydanio rerio 100 g/L semi-static	-
Xylene 1330-20-7	-	LC50: 96 h Pimephales promelas 23.53 - 29.97 mg/L static LC50: 96 h Cyprinus carpio 780 mg/L semi-static LC50: 96 h Cyprinus carpio 780 mg/L LC50: 96 h Poecilia reticulata 30.26 - 40.75 mg/L static LC50: 96 h Pimephales promelas 13.4 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L static LC50: 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L LC50: 96 h Lepomis macrochirus 13.1 - 16.5 mg/L flow-through LC50: 96 h Lepomis macrochirus 19 mg/L LC50: 96 h	EC50: 48 h water flea 3.82 mg/L LC50: 48 h Gammarus lacustris 0.6 mg/L



		Lepomis macrochirus 7.711 - 9.591 mg/L static	
Methyl isobutyl ketone 108-10-1	EC50: 96 h Pseudokirchneriella subcapitata 400 mg/L	LC50: 96 h Pimephales promelas 496 - 514 mg/L flow-through	EC50: 48 h Daphnia magna 170 mg/L
Ethylbenzene 100-41-4	EC50: 72 h Pseudokirchneriella subcapitata 4.6 mg/L EC50: 96 h Pseudokirchneriella subcapitata 438 mg/L EC50: 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L static EC50: 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L static	LC50: 96 h Oncorhynchus mykiss 11.0 - 18.0 mg/L static LC50: 96 h Oncorhynchus mykiss 4.2 mg/L semi-static LC50: 96 h Pimephales promelas 7.55 - 11 mg/L flow-through LC50: 96 h Lepomis macrochirus 32 mg/L static LC50: 96 h Pimephales promelas 9.1 - 15.6 mg/L static LC50: 96 h Poecilia reticulata 9.6 mg/L static	EC50: 48 h Daphnia magna 1.8 - 2.4 mg/L
Toluene 108-88-3	EC50: 96 h Pseudokirchneriella subcapitata 433 mg/L EC50: 72 h Pseudokirchneriella subcapitata 12.5 mg/L static	LC50: 96 h Pimephales promelas 15.22 - 19.05 mg/L flow-through LC50: 96 h Pimephales promelas 12.6 mg/L static LC50: 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L static LC50: 96 h Oncorhynchus mykiss 5.8 mg/L semi-static LC50: 96 h Lepomis macrochirus 11.0 - 15.0 mg/L static LC50: 96 h Oryzias latipes 54 mg/L static LC50: 96 h Poecilia reticulata 28.2 mg/L semi-static LC50: 96 h Poecilia reticulata 50.87 - 70.34 mg/L static	EC50: 48 h Daphnia magna 5.46 - 9.83 mg/L Static EC50: 48 h Daphnia magna 11.5 mg/L

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

Discharge into the environment must be avoided

Chemical Name	log Pow
Xylene 1330-20-7	3.15
Methyl isobutyl ketone 108-10-1	1.19
Ethylbenzene 100-41-4	3.118
Toluene 108-88-3	2.65

**12.4 Mobility in soil**

No information available.

**12.5 Other adverse effects**

No information available

## 13. Disposal Considerations

**13.1 Waste treatment methods**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. Transport Information

**Note**

This product may be reclassified as Consumer Commodity, ORM-D, when shipped by ground; packaging quantity limitations apply. Limited quantity

<b>DOT</b>	Quarts and gallons ship as limited quantity.
<b>MEX</b>	no data available
<b>IMDG</b>	
<b>Proper shipping name</b>	UN1263, Paint, 3, PG III
<b>IATA</b>	
<b>Proper shipping name</b>	UN1263, Paint, 3, PG III

## 15. Regulatory information

### 15.1 International Inventories

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>EINECS/ELINCS</b>	-
<b>ENCS</b>	-
<b>IECSC</b>	-
<b>KECL</b>	-
<b>PICCS</b>	-
<b>AICS</b>	-
<b>NZIoC</b>	-

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

### 15.2 U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	SARA 313 - Threshold Values %
Xylene 1330-20-7	1.0
Methyl isobutyl ketone 108-10-1	1.0
Ethylbenzene 100-41-4	0.1

### 15.3 Pesticide Information

Not applicable

### 15.4 U.S. State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
Methyl isobutyl ketone - 108-10-1	Carcinogen Developmental
Ethylbenzene - 100-41-4	Carcinogen

Carbon black - 1333-86-4	Carcinogen
Toluene - 108-88-3	Developmental Female Reproductive

### 16. Other information

<b>NFPA</b>	<b>Health Hazard 2</b>	<b>Flammability 3</b>	<b>Instability 1</b>	<b>Physical and chemical hazards -</b>
<b>HMIS</b>	<b>Health Hazard 2*</b>	<b>Flammability 3</b>	<b>Physical Hazard 1</b>	<b>Personal protection X</b>

**Legend:**

ACGIH (American Conference of Governmental Industrial Hygienists)

Ceiling (C)

DOT (Department of Transportation)

EPA (Environmental Protection Agency)

IARC (International Agency for Research on Cancer)

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG)

NIOSH (National Institute for Occupational Safety and Health)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEL (Permissible Exposure Limit)

Reportable Quantity (RQ)

Skin designation (S\*)

STEL (Short Term Exposure Limit)

TLV® (Threshold Limit Value)

TWA (time-weighted average)

**Revision Date** 07-Oct-2015**Revision Note**

No information available

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**