SAFETY DATA SHEET

RAMUC°



Revision Date 24-Sep-2015 Version 1

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

1.1 Product identifier

Product name Ramuc Type EP - 321 Black - Part A

Product code 908132100

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

Recommended Use Pool 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 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2

2.2 Label elements

Signal Word

Danger

Hazard Statements

Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
Suspected of causing genetic defects

Suspected of causing cancer

May cause damage to organs through prolonged or repeated exposure

Highly 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

Immediately call a POISON CENTER or doctor

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 CO2, 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

<u>Substance</u> Not applicable **Mixture**

Chemical Name	CAS-No	Weight %
Polymer of epoxy resin and bisphenol A	25036-25-3	20 - 30
Titanium dioxide	13463-67-7	20 - 30
Barium Sulfate	7727-43-7	10 - 20
Xylene	1330-20-7	5 - 10
Methyl isobutyl ketone	108-10-1	5 - 10
n-Butanol	71-36-3	5 - 10

Isopropyl alcohol	67-63-0	1 - 5
Butyl glycidyl ether	2426-08-6	1 - 5
Carbon black	1333-86-4	1 - 5
Ethylbenzene	100-41-4	1 - 5

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

4. First aid measures

4.1 Description of first-aid measures

General advice For further assistance, contact your local Poison Control Center.

Eye contact 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.

Skin contact 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.

Inhalation 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.

Ingestion 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

Symptoms See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physicianThere is no specific antidote for effects from overexposure to this material. Treat

symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Foam Carbon dioxide (CO₂) 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.

$\underline{\textbf{5.2 Special hazards arising from the substance or mixture}}$

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
Titanium dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³	TWA: 10 mg/m ³			
13463-67-7		total dust	TWA: 3 mg/m ³			

Barium Sulfate 7727-43-7	TWA: 5 mg/m³ inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m³ TWA: 5 mg/m³	TWA: 10 mg/m ³
Xylene 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m ³	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 434 mg/m ³ STEL: 150 ppm STEL: 651 mg/m ³	TWA: 100 ppm TWA: 434 mg/m ³ STEL: 150 ppm STEL: 651 mg/m ³	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 ³	TWA: 20 ppm STEL: 75 ppm	TWA: 50 ppm TWA: 205 mg/m ³ STEL: 75 ppm STEL: 307 mg/m ³	TWA: 50 ppm TWA: 205 mg/m ³ STEL: 75 ppm STEL: 307 mg/m ³	TWA: 20 ppm STEL: 75 ppm
n-Butanol 71-36-3	TWA: 20 ppm	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 15 ppm Ceiling: 30 ppm	TWA: 20 ppm TWA: 60 mg/m ³	Ceiling: 50 ppm Ceiling: 152 mg/m³ Skin	TWA: 20 ppm
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³	TWA: 200 ppm STEL: 400 ppm	TWA: 200 ppm TWA: 492 mg/m ³ STEL: 400 ppm STEL: 984 mg/m ³	TWA: 400 ppm TWA: 985 mg/m ³ STEL: 500 ppm STEL: 1230 mg/m ³	TWA: 200 ppm STEL: 400 ppm
Butyl glycidyl ether 2426-08-6	TWA: 3 ppm S*	TWA: 50 ppm TWA: 270 mg/m ³	TWA: 3 ppm Skin Adverse reproductive effect Sensitizer	TWA: 3 ppm TWA: 16 mg/m³ Skin	TWA: 25 ppm TWA: 133 mg/m ³	TWA: 3 ppm Skin
Carbon black 1333-86-4	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³	TWA: 3 mg/m ³
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³	TWA: 20 ppm	TWA: 100 ppm TWA: 434 mg/m³ STEL: 125 ppm STEL: 543 mg/m³	TWA: 100 ppm TWA: 434 mg/m ³ STEL: 125 ppm STEL: 543 mg/m ³	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 Hvdrocarbon-like No information available **Odor Threshold**

Remarks • Methods **Property** Values

No information available pН Melting/freezing point

No information available

No information available

Boiling point/boiling range 114 °C / 237 °F

Flash Point 16 °C / 61 °F

No information available **Evaporation rate** Flammability (solid, gas) No information available

Flammability Limits in Air

No information available upper flammability limit 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

> 22 mm2/s Viscosity, kinematic

No information available Viscosity, dynamic

Explosive properties No information available **Oxidizing Properties** No information available

9.2 Other information

Volatile organic compounds (VOC) < 340 g/L

content

8.36 lb/gal **Density**

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
 5,979.00 mg/kg

 Dermal LD50
 14,925.00 mg/kg

 LC50 (Vapor)
 52.00 mg/l

Numerical measures of toxicity: Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide 13463-67-7	10000 mg/kg (Rat)	-	-
Barium Sulfate 7727-43-7	> 5005 mg/kg (rat)	-	-
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
n-Butanol 71-36-3	700 mg/kg (Rat)	= 3402 mg/kg (Rabbit)	> 8000 ppm (Rat) 4 h
Isopropyl alcohol 67-63-0	5840 mg/kg (Rat)	= 13,900 mg/kg (Rabbit)	= 72600 mg/m³ (Rat) 4 h
Butyl glycidyl ether 2426-08-6	1660 mg/kg (Rat)	= 2250 mg/kg (Rabbit)	= 2590 ppm (Rat) 4 h
Ethylbenzene 100-41-4	3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.2 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

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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
Titanium dioxide 13463-67-7	-	Group 2B	-	
Methyl isobutyl ketone 108-10-1	-	Group 2B	-	
Isopropyl alcohol 67-63-0	-	Group 3	-	
Carbon black 1333-86-4	-	Group 2B	-	
Ethylbenzene 100-41-4	-	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

41.76203505 % 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
Xylene	-	LC50: 96 h Pimephales promelas	EC50: 48 h water flea 3.82 mg/L
1330-20-7		23.53 - 29.97 mg/L static LC50: 96	LC50: 48 h Gammarus lacustris 0.6
		h Cyprinus carpio 780 mg/L	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	

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			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	
			Lepomis macrochirus 7.711 - 9.591	
L			mg/L static	
	Methyl isobutyl ketone	EC50: 96 h Pseudokirchneriella	LC50: 96 h Pimephales promelas	EC50: 48 h Daphnia magna 170
	108-10-1	subcapitata 400 mg/L	496 - 514 mg/L flow-through	mg/L
Г	n-Butanol	EC50: 96 h Desmodesmus	LC50: 96 h Pimephales promelas	EC50: 48 h Daphnia magna 1983
	71-36-3	subspicatus 500 mg/L EC50: 72 h	1730 - 1910 mg/L static LC50: 96 h	mg/L EC50: 48 h Daphnia magna
		Desmodesmus subspicatus 500	Pimephales promelas 1740 mg/L	1897 - 2072 mg/L Static
		mg/L	flow-through LC50: 96 h Lepomis	
			macrochirus 100000 - 500000 μg/L	
			static LC50: 96 h Pimephales	
L			promelas 1910000 μg/L static	
	Isopropyl alcohol	EC50: 96 h Desmodesmus	LC50: 96 h Pimephales promelas	EC50: 48 h Daphnia magna 13299
	67-63-0	subspicatus 1000 mg/L EC50: 72 h	9640 mg/L flow-through LC50: 96 h	mg/L
		Desmodesmus subspicatus 1000	Pimephales promelas 11130 mg/L	
		mg/L	static LC50: 96 h Lepomis	
L			macrochirus 1400000 μg/L	
	Ethylbenzene	EC50: 72 h Pseudokirchneriella	LC50: 96 h Oncorhynchus mykiss	EC50: 48 h Daphnia magna 1.8 -
	100-41-4	subcapitata 4.6 mg/L EC50: 96 h	11.0 - 18.0 mg/L static LC50: 96 h	2.4 mg/L
		Pseudokirchneriella subcapitata 438		
		mg/L EC50: 72 h	semi-static LC50: 96 h Pimephales	
		Pseudokirchneriella subcapitata 2.6	promelas 7.55 - 11 mg/L	
		- 11.3 mg/L static EC50: 96 h	flow-through LC50: 96 h Lepomis	
		Pseudokirchneriella subcapitata 1.7	macrochirus 32 mg/L static LC50:	
		- 7.6 mg/L static	96 h Pimephales promelas 9.1 -	
			15.6 mg/L static LC50: 96 h Poecilia	
			reticulata 9.6 mg/L static	

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
n-Butanol 71-36-3	0.785
Isopropyl alcohol 67-63-0	0.05
Ethylbenzene 100-41-4	3.118

12.4 Mobility in soil

No information available.

12.5 Other adverse effects

No information available

13. Disposal Considerations

13.1 Waste treatment methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

14. Transport Information

Note This product may be reclassified as Consumer Commodity, ORM-D, when shipped by

ground; packaging quantity limitations apply.

DOT

Proper shipping name UN1263, Paint, 3, PG II

MEX no data available

IMDG

Proper shipping name UN1263, Paint, 3, PG II

<u>IATA</u>

Proper shipping name UN1263, Paint, 3, PG II

15. Regulatory information

15.1 International Inventories

TSCA Complies DSL Complies

EINECS/ELINCS ENCS IECSC KECL PICCS AICS NZIOC -

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 %
Barium Sulfate 7727-43-7	1.0
Xylene 1330-20-7	1.0
Methyl isobutyl ketone 108-10-1	1.0
n-Butanol 71-36-3	1.0
Isopropyl alcohol 67-63-0	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
Titanium dioxide - 13463-67-7	Carcinogen
Methyl isobutyl ketone - 108-10-1	Carcinogen Developmental
Carbon black - 1333-86-4	Carcinogen
Ethylbenzene - 100-41-4	Carcinogen
Crystalline silica (Quartz) (Respirable) - 14808-60-7	Carcinogen
Toluene - 108-88-3	Developmental Female Reproductive
CUMENE - 98-82-8	Carcinogen
Benzene - 71-43-2	Carcinogen Developmental Male Reproductive

16. Other information

NFPA_	Health Hazard 2	Flammability 3	Instability 0	Physical and chemical hazards -
HMIS_	Health Hazard 2*	Flammability 3	Physical Hazard 0	Personal protection X

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 24-Sep-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