

# SAFETY DATA SHEET

# RAMUC® KOP-COAT

Revision Date 17-Sep-2015  
Version 1

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

### 1.1 Product identifier

Product name Ramuc Type DS - 300 Aquagreen  
Product code 910130000

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

Recommended Use Paint  
Restrictions on use No information available

### 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

Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1

### 2.2 Label elements

**Signal Word**  
Danger

**Hazard Statements**  
May cause cancer  
Causes damage to organs through prolonged or repeated exposure



**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  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**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**

This product is a mixture. Health hazard information is based on its components.

**Mixture**

Chemical Name	CAS-No	Weight %
Titanium dioxide	13463-67-7	10 - 20
Barium Sulfate	7727-43-7	10 - 20
Crystalline silica (quartz)	14808-60-7	5 - 10
Diacetone alcohol	123-42-2	1 - 5
Ethylene glycol monobutyl ether	111-76-2	1 - 5
Ammonium hydroxide	1336-21-6	< 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>	Show this safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.
<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. Call a physician or poison control center immediately.
<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. Apply artificial respiration if victim is not breathing. Call a physician or poison control center immediately.
<b>Ingestion</b>	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. 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 physician** There is no specific antidote for effects from overexposure to this material. Treat symptomatically.

## 5. Fire-Fighting Measures

**5.1 Extinguishing media****Suitable extinguishing media**

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

**Unsuitable Extinguishing Media** None known based on information supplied.

**5.2 Special hazards arising from the substance or mixture****Special Hazard**

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** None.

**Sensitivity to Static Discharge** None.

**5.3 Advice for firefighters**

Evacuate personnel to safe areas. Move non-burning material, as feasible, to a safe location as soon as possible. Thoroughly decontaminate all protective equipment after use. Use water spray to cool fire-exposed containers. As in any fire, wear self-contained breathing apparatus and full protective gear.

## 6. Accidental Release Measures

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

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. Avoid exceeding of the given occupational exposure limits (see section 8). Ensure adequate ventilation, especially in confined areas. Use personal protective equipment. Stop leak if you can do it without risk. Refer to protective measures listed in sections 7 and 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. 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** Prevent further leakage or spillage if safe to do so. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly.

## 7. Handling and storage

**7.1 Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Use according to package label instructions. Empty containers may retain product residue or vapor.

**Hygiene measures**

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

**7.2 Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep from freezing. Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep away from food, drink and animal feedings.

**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 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Barium Sulfate 7727-43-7	TWA: 5 mg/m <sup>3</sup> inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica	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>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Crystalline silica (quartz) 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	: (30)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA total dust : (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.10 mg/m <sup>3</sup>
Diacetone alcohol 123-42-2	TWA: 50 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup>	TWA: 50 ppm	TWA: 50 ppm TWA: 238 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 238 mg/m <sup>3</sup>	TWA: 50 ppm
Ethylene glycol monobutyl ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> S*	TWA: 20 ppm	TWA: 20 ppm TWA: 97 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 97 mg/m <sup>3</sup>	TWA: 20 ppm

**8.2 Appropriate engineering controls****Engineering Measures**

None under normal use conditions. 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.

**8.3 Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Safety glasses with side-shields.

**Skin and body protection**

Wear protective gloves/ 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.

**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	Colored liquid
Color	Green
Odor	Slightly sweet
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	8,0-9,5	
Melting/freezing point		No information available
Boiling point/boiling range		
Flash Point	> 94 °C / > 201 °F	
Evaporation rate		
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	1,36	
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	> 21 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	275 g/L
Density	11,35 lb/gal

## 10. Stability and Reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to Avoid

No information available.

### 10.5 Incompatible Materials

No materials to be especially mentioned.

### 10.6 Hazardous Decomposition Products

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** 25,490.00 mg/kg  
**LC50 (Vapor)** 725.00 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)	-	-
Diacetone alcohol 123-42-2	4 g/kg ( Rat )	-	-
Ethylene glycol monobutyl ether 111-76-2	470 mg/kg ( Rat )	= 2000 mg/kg ( Rabbit )	= 450 ppm ( Rat ) 4 h
Ammonium hydroxide 1336-21-6	350 mg/kg ( Rat )	-	-

### 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

Titanium dioxide 13463-67-7	-	Group 2B	-	
Crystalline silica (quartz) 14808-60-7	A2	Group 1	Known	

**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

19.25062014 % of the mixture consists of component(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
Diacetone alcohol 123-42-2	-	LC50: 96 h Lepomis macrochirus 420 mg/L static LC50: 96 h Lepomis macrochirus 420 mg/L	-
Ethylene glycol monobutyl ether 111-76-2	-	LC50: 96 h Lepomis macrochirus 1490 mg/L static LC50: 96 h Lepomis macrochirus 2950 mg/L	EC50: 48 h Daphnia magna 1000 mg/L
Ammonium hydroxide 1336-21-6	-	LC50: 96 h Pimephales promelas 8.2 mg/L	EC50: 48 h water flea 0.66 mg/L EC50: 48 h Daphnia pulex 0.66 mg/L

**12.2 Persistence and degradability**

Not readily biodegradable.

**12.3 Bioaccumulative potential**

Discharge into the environment must be avoided

Chemical Name	log Pow
Diacetone alcohol 123-42-2	1.03
Ethylene glycol monobutyl ether	0.81

111-76-2

**12.4 Mobility in soil**

No information available.

**12.5 Other adverse effects**

No information available

**13. Disposal Considerations****13.1 Waste treatment methods**

Dispose of in accordance with federal, state, and local regulations.

**14. Transport Information****DOT** Not regulated**MEX** Not regulated**IMDG** Not regulated**IATA** Not regulated**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 %
Barium Sulfate 7727-43-7	1.0
Ethylene glycol monobutyl ether	1.0



111-76-2

**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
Crystalline silica (quartz) - 14808-60-7	Carcinogen
Crystalline silica (Quartz) (Respirable) - 14808-60-7	Carcinogen
Ethylbenzene - 100-41-4	Carcinogen
Benzyl chloride - 100-44-7	Carcinogen
Toluene - 108-88-3	Developmental Female Reproductive
1,4-DIOXANE - 123-91-1	Carcinogen

**16. Other information**

<b>NFPA</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Physical and chemical hazards</b> -
<b>HMIS</b>	<b>Health Hazard</b> 1*	<b>Flammability</b> 1	<b>Physical Hazard</b> 0	<b>Personal protection</b> 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)

**Prepared By** Kop-Coat, Inc.  
Regulatory Affairs

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**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**