SAFETY DATA SHEET RAMUC* KOP-COAT

Revision Date 06-Sep-2018 Version 3

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

1.1 Product identifier

Product name Ramuc ULTRA PRO 2000 - 311 White

Product code 972231100

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

Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 3

2.2 Label elements

Signal Word

Danger

Hazard Statements

May cause cancer

Suspected of damaging fertility or the unborn child

May cause respiratory irritation. May cause drowsiness or dizziness 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

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

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

Keep cool

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

IF INHALED: Remove person to fresh air and keep comfortable for breathing

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 container tightly closed

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

-

Chemical Name	CAS No.	Weight-%
Parachlorobenzotrifluoride	98-56-6	20 - 30
Titanium dioxide	13463-67-7	10 - 20
Xylene	1330-20-7	5 - 10
CLAY (KAOLIN)	1332-58-7	5 - 10
Mica	12001-26-2	5 - 10
Ethylbenzene	100-41-4	1 - 5
Crystalline silica (quartz)	14808-60-7	< 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

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

Eye contact Call a poison control center or doctor for treatment advice. 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.

Skin contactCall a poison control center or doctor for treatment advice. Wash off immediately with plenty

of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash

contaminated clothing before reuse.

Inhalation Call a poison control center or doctor for treatment advice. Move victim to fresh air. If not

breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do NOT induce

vomiting. If a person vomits when lying on his back, place him in the recovery position.

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

Water may be used to cool and prevent the rupture of containers that are exposed to the heat from a fire. Foam. Carbon dioxide (CO₂). Dry chemical. Water spray or fog.

Unsuitable Extinguishing Media Water may be unsuitable for extinguishing fires.

5.2 Special hazards arising from the substance or mixture

Special Hazard

Thermal decomposition can lead to release of irritating gases and vapors. 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.

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. Thoroughly decontaminate all protective equipment after use. 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. 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

Refer to protective measures listed in sections 7 and 8. Avoid exceeding of the given occupational exposure limits (see section 8). 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. 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.

6.3 Methods and materials for containment and cleaning up

Methods for Containment Absorb with earth, sand or other non-combustible material and transfer to containers for

later disposal. Dike far ahead of liquid spill 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 Empty containers may retain product residue or vapor. Ensure adequate ventilation. Ground

and bond containers when transferring material. 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 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 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
Parachlorobenzotrifluo	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³
ride		TWA: 2.5 mg/m ³				
98-56-6		dust				
Titanium dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³
13463-67-7		total dust	TWA: 3 mg/m ³			
Xylene	STEL: 150 ppm	TWA: 100 ppm	TWA: 100 ppm	TWA: 100 ppm	TWA: 100 ppm	TWA: 100 ppm
1330-20-7	TWA: 100 ppm	TWA: 435 mg/m ³	STEL: 150 ppm	TWA: 434 mg/m ³	TWA: 434 mg/m ³	STEL: 150 ppm
				STEL: 150 ppm	STEL: 150 ppm	
				STEL: 651 mg/m ³	STEL: 651 mg/m ³	
CLAY (KAOLIN)	TWA: 2 mg/m ³	TWA: 15 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 5 mg/m ³	TWA: 2 mg/m ³
1332-58-7	particulate matter	total dust				
	containing no	TWA: 5 mg/m ³				
	asbestos and <1%	respirable fraction				
	crystalline silica,					
	respirable fraction					

Mica 12001-26-2	TWA: 3 mg/m³ respirable fraction	TWA: 20 mppcf <1% Crystalline	TWA: 3 mg/m ³	TWA: 3 mg/m ³	TWA: 3 mg/m ³	TWA: 3 mg/m ³
		silica				
Ethylbenzene	TWA: 20 ppm	TWA: 100 ppm	TWA: 20 ppm	TWA: 100 ppm	TWA: 100 ppm	TWA: 20 ppm
100-41-4	''	TWA: 435 mg/m ³	''	TWA: 434 mg/m ³	TWA: 434 mg/m ³	
		J		STEL: 125 ppm	STEL: 125 ppm	
				STEL: 543 mg/m ³	STEL: 543 mg/m ³	
Crystalline silica (quartz) 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	: (30)/(%SiO2 + 2) mg/m³ TWA total dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction		TWA: 0.025 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.10 mg/m ³
Toluene	TWA: 20 ppm	TWA: 200 ppm	TWA: 20 ppm	TWA: 50 ppm	TWA: 50 ppm	TWA: 20 ppm
108-88-3	1 VVA. 20 ppili	Ceiling: 300 ppm	Adverse	TWA: 30 ppm TWA: 188 mg/m ³	TWA: 188 mg/m ³	1 vvA. 20 ppili
		2 2 g. 000 pp	reproductive effect	Skin	Skin	

8.2 Appropriate engineering controls

Engineering Measures Use adequate ventilation to maintain airborne concentrations at levels below permissible or

recommended occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Ensure adequate ventilation, especially in confined areas.

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.

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 White

Odor Aromatic solvent Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Methods</u>

pH Not Applicable

Melting/freezing pointno data availableNo information availableBoiling point/boiling rangeno data availableNo information available

Flash Point 39 °C / 102 °F

Evaporation rate < 1 Butyl acetate=1

Flammability (solid, gas)

No information available

Flammability Limits in Air

upper flammability limitNo information availablelower flammability limitNo information availableVapor pressureNo information availableVapor densityNo information available

Specific Gravity 1.442

Water solubilityNo information availableSolubility in other solventsNo information availablePartition coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information available

Viscosity, kinematic > 25 mm2/s

Viscosity, dynamic No information available

Explosive properties

No information available
Oxidizing Properties

No information available

9.2 Other information

Volatile organic compounds (VOC) 178 g/L Material VOC, 325 g/L Coating VOC

content

Density 12.01 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

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

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
 10,299.00 mg/kg

 Dermal LD50
 4,025.00 mg/kg

 LC50 (Dust/Mist)
 51.89 mg/l

 LC50 (Vapor)
 100.00 mg/l

Numerical measures of toxicity: Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Parachlorobenzotrifluoride 98-56-6	> 6800 mg/kg (Rat)	> 2700 mg/kg (Rabbit)	= 33 mg/L (Rat) 4 h
Titanium dioxide 13463-67-7	10000 mg/kg (Rat)	-	-
Xylene 1330-20-7	3500 mg/kg (Rat)	1100 mg/kg (Rabbit)	6700 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

Serious eye damage/eye 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

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Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide 13463-67-7	-	Group 2B	-	
Xylene 1330-20-7	-	Group 3	-	
Ethylbenzene 100-41-4	-	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

< 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
Parachlorobenzotrifluoride	-	-	EC50: 48 h Daphnia magna 3.68
98-56-6			mg/L
Xylene	-	LC50: 96 h Pimephales promelas	EC50: 48 h water flea 3.82 mg/L
1330-20-7		13.4 mg/L flow-through LC50: 96 h	LC50: 48 h Gammarus lacustris 0.6
		Oncorhynchus mykiss 2.661 - 4.093	mg/L
		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	
		Lepomis macrochirus 7.711 - 9.591	
		mg/L static 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	

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	semi-static LC50: 96 h Pimephales	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	reticulata 9.6 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
Parachlorobenzotrifluoride	3.7
98-56-6	
Xylene	2.77 - 3.15
1330-20-7	
Ethylbenzene	3.118
100-41-4	
Toluene	2.65
108-88-3	

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 DOT Ground - "Non-bulk shipments may be non-regulated per 49CFR 173.150(f)(2)"

DOTNot regulated (If shipped in NON BULK packaging by ground transport)

MEX no data available

<u>IMDG</u>

UN UN1263, Paint, 3, PG III

<u>IATA</u>

UN1263, Paint, 3, PGIII

15. Regulatory information

15.1 International Inventories

TSCA Complies DSL Complies

EINECS/ELINCS -

ENCS -

IECSC Complies
KECL Complies
PICCS -

AICS Complies

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 %	Weight-%
Xylene 1330-20-7	1.0	5 - 10
Ethylbenzene 100-41-4	0.1	1 - 5

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
Ethylbenzene - 100-41-4	Carcinogen
Crystalline silica (quartz) - 14808-60-7	Carcinogen
Toluene - 108-88-3	Developmental
	Female Reproductive
CUMENE - 98-82-8	Carcinogen
Carbon black - 1333-86-4	Carcinogen

16. Other information

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and chemical hazards -

HMIS Health Hazard 2* Flammability 2 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)

Prepared By
Kop-Coat, Inc.
Regulatory Affairs
Revision Date
Kop-Coat, Inc.
Regulatory Affairs
06-Sep-2018

Revision Date 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