

Rubaroc[®] UV Commercial Resin

Section 01 - Chemical and Product and Company Information

Rubaroc® UV Commercial Resin
No further relevant information available.
Rubaroc
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Rubaroc Regulatory Department
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12/16/2016

24-Hour Emergency Phone

613-966-6666

Section 02 -	Compos	sition /	Information or	n Ingredients
Ingredients	Cas #		Percentage	Chemical Name
	9042-8	32-4	50–100%	Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomega
	hydrox	ky-, poly	mer with 1,1'-m	ethylenebis[4-isocyanatocyclohexane]
	5124-3	30-1	<10%	Cyclohexane, 1,1'-methylenebis[4-isocyanato-
	6425-3	39-4	<10%	Morpholine, 4,4'-(oxydi-2,1-ethanediyl)bis-
	77-58-	7	<5%	Stannane, dibutylbis[(1-oxododecyl)oxy]-
Section 03 -	Hazard	dentifie	cation	
NFPA	Healt	า = 3	Fire = 0	Reactivity = 0
HMIS III	H*3		FO	PHO
GHS Signal V	Nord	DAN	GER	
GHS Classifications		Health, Respiratory or skin sensitization, 1 Respiratory		
		Health, Skin corrosion/irritation, 2		
		Health, Serious Eye Damage/Eye Irritation, 2 A		
		Health, Respiratory or skin sensitization, 1 Skin		
			1 -	get organ toxicity - Single exposure, 3
GHS Phrases H334 - M inhaled H315 - C H319 - C				allergy or asthma symptoms of breathing difficulties it
			•	
		H315 - Causes skin irritation		
			bus eye irritation	
			-	
			2	n allergic skin reaction
			5	espiratory irritation
GHS Precau	tionary S			
				adequate ventilation wear respiratory protection.
		P264	- Wash hands	and exposed area thoroughly after handling.



P251 - Pressurized container: Do not pierce or burn, even after use.P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P342+311 - Call a POISON CENTER or doctor/physician.

P302+352 - IF ON SKIN: Wash with soap and water.

Contains Poly[oxy(methyl-1,2-ethanediyl)],.alpha.-hydro-.omega.-hydroxy-, polymer with 1,1'- methylenebis [4-isocyanatocyclohexane], 4,4'-methylenedi(cyclohexyl isocyanate). May produce an allergic reaction.

Section 04 - First Aid Measures		
General Information	Immediately remove any clothing soiled by the product.	
	Remove breathing equipment only after contaminated clothing	
	have been completely removed. In case of irregular breathing or	
	respiratory arrest provide artificial respiration. Take affected	
	persons out into the fresh air.	
Skin Contact	Immediately wash with water and soap and rinse thoroughly. If skin	
	irritation continues, consult a doctor.	
Eyes	Immediately remove contact lenses if possible. Rinse opened eye	
	for several minutes under running water. Then consult a doctor.	
Inhalation	Supply fresh air. In case of irregular breathing or respiratory arrest	
	provide artificial respiration. Seek immediate medical advice. In	
	case of unconsciousness place patient stably in side position for	
	transportation.	
Ingestion	Rinse out mouth and then drink plenty of water. Do not induce	
	vomiting; call for medical help immediately. A person vomiting	
	while laying on their back should be turned onto their side.	
Most important symptoms	Asthma attacks	
and effects, both acute and	Breathing difficulty	
delayed	Allergic reactions	
	Nausea/Cramps	
	Dizziness	
	Headache	
	Profuse sweating	
	Disorientation	
	Cyanosis	
Hazards	Danger of pulmonary oedema.	
	Danger of impaired breathing.	
	Danger of pneumonia.	



	Danger of convulsion.
	Danger of disturbed cardiac rhythm.
Indication of any immediate	If swallowed, gastric irrigation with added, activated carbon.
medical attention and	Contains isocyanates.
special treatment needed	If swallowed or in case of vomiting, danger of entering the lungs.
	Severe allergic skin reaction, bronchial spasms and anaphylactic
	shock are possible.
	Treat skin and mucous membrane with antihistamine and corticoid preparations.
	In cases of irritation to the lungs, initial treatment with cortical
	steroid inhalants.
	If necessary, oxygen respiration treatment.
	Later observation for pneumonia and pulmonary oedema.
	Medical supervision for at least 48 hours.
	If blue coloring appears (lips, earlobes, fingernails), give oxygen
	treatment as quickly as possible.
Section 05 - Fire Fighting	
Extinguishing media	Alcohol resistant foam
	Fire-extinguishing powder
	Carbon dioxide
	Gaseous extinguishing agents
	Water haze or fog
For safety reasons unsuitable	e extinguishing agents: Water with full jet
Special hazards arising from	the substance or mixture
During heating or in case of	fire poisonous gases are produced.
Advice for firefighters:	Protective equipment
	Wear self-contained respiratory protective device.
	Wear fully protective suit.
	Additional information
	Eliminate all ignition sources if safe to do so.
	Cool endangered receptacles with water fog or haze.
Section 06 - Accidental Relea	ase Measures
Personal Precautions	Use respiratory protective device against the effects of
	fumes/dust/aerosol. Isolate area and prevent access. Wear
	protective equipment. Keep unprotected persons away. Ensure
	adequate ventilation



Methods for cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste. Additional Spill Procedures/Neutralization: Neutralization solutions:		
	 (1) Colorimetric Laboratories Inc. (CLI) decontamination solution. (2) A mixture of 75% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10) and 5% n-propanol. 		
	(3) A mixture of 80% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10).		
	(4) A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.		
	Do not flush with water or aqueous cleansing agents		
Environmental Precautions	Inform respective authorities in case of seepage into water course		
	or sewage system. Do not allow to enter sewers/ surface or		
	ground water.		
Section 07 - Handling and Storage			
Handling	Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. Take		
	note of emission threshold.		
Information about fire - and	explosion protection: Keep respiratory protective device available.		
Storage	Requirements to be met by storerooms and receptacles:		
	Provide ventilation for receptacles.		
	Store in a cool location.		
	Avoid storage near extreme heat, ignition sources or open flame.		
	Information about storage in one common storage facility:		
	Store away from foodstuffs.		
	Store away from oxidizing agents.		
	Do not store together with alkalis (caustic solutions).		
	Do not store together with acids.		
	Further information about storage conditions:		
	Store in cool, dry conditions in well-sealed receptacles.		
	Keep container tightly sealed.		
	Store receptacle in a well-ventilated area.		



Section 08 - Personal Protecti	ion and Expos	ure Controls
	label instruction below the TLV applied. For s worn. All vent	train employees in safe use of this product. Follow all on. Local exhaust should be used to maintain levels / whenever this product is processed, heated or spray spray applications, an air-supplied respirator must be ilation should be designed in accordance with OSHA
	standard (29 (nt	CFR 1910.94).
Personal Protective Equipme General protective and hygie		The usual precautionary measures are to be adhered to when handling chemicals. Personal protective equipment must be selected to prevent inhalation of vapors and contact with skin and eyes. At a bare minimum, safety glasses, gloves, apron, and combination particle/vapor respirator should be worn. In some cases, supplied air, full body suits and boots will be needed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.
Respiratory protection		Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.
Protection of hands		Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.



Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the permanent contact gloves made of	Nitrile rubber, NBR
the following materials are suitable	Butyl rubber, BR
Eye protection	Contact lenses should not be worn.
	Safety glasses
Body protection	Boots
	Apron
	Full head, face and neck protection
	Impervious protective clothing
Limitation and supervision of exposure into	No further relevant information available.
the environment	
Risk management measures	Organizational measures should be in place for all activities involving this product.
Ingredients with limit values that require m	
5124-30-1 4,4'-methylenedi(cyclohexyl iso	-
REL (USA) Short-term value: C 0,11 mg/mÑ	J, C 0,01 ppm
TLV (USA) 0,054 mg/mÑ, 0,005 ppm	
EL (Canada) Short-term value: C 0,01 ppm	/ Long-term value: 0,005 ppm
EV (Canada) 0,005 ppm	
77-58-7 dibutyltin dilaurate PEL (USA) 0,1 mg/mÑ as Sn	
REL (USA) 0,1 mg/mÑ as Sn REL (USA) 0,1 mg/mÑ as Sn, Skin	
TLV (USA) Short-term value: 0,2 mg/mÑ / L	ong-term value: 0.1 mg/mÑ as Sn: Skin
EL (Canada) Short-term value: $0,2 \text{ mg/mV}$	
DNELs No further relevant information ava	
PNECs No further relevant information ava	



Section 09 - Physical and Ch	nemical Properties
Form	Liquid
Color	Clear
VOC	0 g/L
Spec Grav./Density	1 g/cm ³
Section 10 - Stability and Re	eactivity
Stability	No decomposition if used and stored according to specifications.
Conditions to Avoid	Keep ignition sources away - Do not smoke.
	Store away from oxidizing agents.
Materials to Avoid	Reacts with water.
	Reacts with oxidizing agents.
	Reacts with alkali, amines and strong acids.
	Contact with acids releases toxic gases.
	Reacts with peroxides and other radical forming substances.
	Reacts with certain metals.
Hazardous Decomposition	lsocyanate
	Nitrogen oxides
	Carbon monoxide and carbon dioxide
	Hydrogen cyanide (prussic acid)
Hazardous Polymerization	Reacts with water.
Section 11 - Toxicological Ir	nformation
Acute toxicity:	
Primary irritant effect:	on the skin: Irritant to skin and mucous membranes.
	on the eye: Irritating effect.
Sensitization	Sensitization possible through inhalation.
	Sensitization possible through skin contact.
Additional toxicological info	prmation The product shows the following dangers according to the
	calculation method of the General EU Classification
	Guidelines for preparations as issued in the latest version:
	Toxic
	Harmful
	Irritant
	Danger through skin adsorption.
	Toxic/corrosive effects may be delayed up to 24 hours.
Sensitisation	Sensitization possible by inhalation and/or dermal contact.



Repeated dose toxicity:	May cause damage to organs through prolonged or repeated exposure.
	Repeated exposures may result in skin and/or respiratory sensitivity.
Section 12 - Ecological Information	
Aquatic Toxicity	The product contains materials that are harmful to the environment.
Persistence and degradability	Not easily biodegradable
Bio-accumulative potential	May be accumulated in organism
Mobility in soil	No further relevant information available.
Ecotoxic effects	
Remark: Harmful to fish	Due to mechanical actions of the product (e.g. agglutinations) damages may occur. The product is oxygen consuming. The declared action may be partly caused by lack of oxygen. Section 13 - Disposal Consideration
Additional ecological information	
General notes	This statement was deduced from products with a similar structure or composition.
	The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.
	Water hazard class 2 (German Regulation) (Self- assessment): hazardous for water.
	Do not allow product to reach ground water, water course
	or sewage system.
	Danger to drinking water if even small quantities leak into
	the ground.
	Harmful to aquatic organisms
Results of PBT and vPvB assessmen	
РВТ	Not applicable.
vPvB	Not applicable.
Other adverse effects	No further relevant information available.



13 – Disposal Consideration

Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging

Recommendation Disposal must be made according to official regulations. Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN Number	
DOT, ADR, AND, IMDG	Not Regulated
ΙΑΤΑ	UV3334
UN Proper Shipping Name	
DOT, ADR, AND, IMDG	Not Regulated
ΙΑΤΑ	Aviation regulated liquid, n.o.s. (Hydrogenated MDI
	Polypropylene glycol copolymer)
Transport Hazard Class(es)	
DOT, ADR, AND, IMDG	
Class	Not Regulated
Packing Group	
DOT, ADR, IMDG	Not Regulated
ΙΑΤΑ	III
Environmental Hazards	
Marine pollutant	No
Special precautions for users	Not applicable
Transport in bulk according to Ann	ex II of MARPOL73/7
and the IBC Code	Not applicable.
Transport/Additional information:	
IMDG	
Limited quantities (LQ)	-
Excepted quantities (EQ) Code	-
UN "Model Regulation"	-



Section 15 - Regulatory Information

Component / CAS/PERC / Codes

*Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, polymer with 1,1'methylenebis[4-

isocyanatocyclohexane] (9042824 50-100%) TSCA

*Cyclohexane, 1,1'-methylenebis[4-isocyanato- (5124301 <10%) MASS, OSHAWAC, PA, SARA313, TSCA, TXAIR

*Morpholine, 4,4'-(oxydi-2,1-ethanediyl)bis- (6425394 <10%) TSCA

*Stannane, dibutylbis[(1-oxododecyl)oxy]- (77587 <5%) TSCA

Regulatory Key Descriptors

PA	PA Right-To-Know List of Hazardous Substances
SARA313	SARA 313 Title III Toxic Chemicals
TXAIR	TX Air Contaminants with Health Effects Screening Level

Section 16 - Other Information

Disclaimer

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