

#### 1. IDENTIFICATION OF SUBSTANCE

PRODUCT FORM	Mixture
PRODUCT NAME	Rugged Coatings MaAC
SUPPLIER IDENTIFICATION	Rugged Coatings 3217 Messer Airport Hwy Birmingham, AL 35222
EMERGENCY TELEPHONE	(800) 424-9300 Chemtrec

#### 2. HAZARD(S) IDENTIFICATION

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GHS RATING	S:		
Skin Corr	1C	H313	
Muta	2	H341	
Aquatic Chro	nic 1	H410	
GHS HAZARI	DS		
H302	Suspected of ca	ausing cancer	
H317	May cause an a	ıllergic skin re	act
H320	Causes eye irri	tation	
H413	May cause long	lasting harmi	ful
GHS PRECA	JTIONS		
P201	Obtain special i	instructions be	efor
P202	Do not handle uread and under		pre
P264	Wash hands, fo handling	rearms and fa	ce tl
P273	Avoid release to	o the environn	nent
P280	Wear protective protection/face	•	ctiv
P301+P330+	P331 - If swallowe	ed: rinse mout	h. D
P303+P361+	P353 - If on skin ( contaminated c		
P304+P340	If inhaled: Remo		frest
P308+P313	If exposed or c	oncerned: Get	med
P310	Immediately c	all a doctor, a	POIS
P321	Specific treatm gloves, a POISC		
P363	Wash con	taminated clot	hing
P391	Collect Sp	oillings	
P501	hazardous site excep	f contents/cor s-waste dispos ot for empty clo of as non-haza	sal c
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#### LABEL ELEMENTS

**PICTOGRAM** 







SIGNAL WORD

Warning

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES	
<b>Water</b> (CAS No) 7732-18-5	22 - 32%
latex, liquid, sythetic	24- 32%
titanium(IV) oxide (CAS No) 13463-67-7	8- 12%
<b>2,2,4-trimethyl-1,3-pentanediol monoisobutyrate</b> (CAS No) 25265-77-4	0.3 - 0.6%
Zinc Oxide	0.2-0.5%

### 4. FIRST-AID MEASURES

GENERAL INFO	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
INHALATION	Allow victim to breathe fresh air.
SKIN CONTACT	: Wash with water and soap. Rinse with water.
EYE CONTACT	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist. Direct contact with the eyes is likely to be irritating.
INGESTION	Do not induce vomiting. Drink plenty of water. Rinse mouth. Get medical advice/attention.

#### 5. FIRE-FIGHTING MEASURES

#### SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Fire hazard	Non combustible. Not Flammable



## 6. ACCIDENTAL RELEASE MEASURES

DEDCUNIVI	DDECVIITIONS	DDOTECTIVE ENHIDMENT	AND EMERGENCY PROCEDURES
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For non-emergency personnel	Avoid contact with eyes.			
For emergency responders	Protective equipment: Equip cleanup crew with proper protection. Emergency procedures: Ventilate area.			
ENVIRONMENTAL PRECAUTIONS				
Prevent entry to sewers and public v	waters. Notify authorities if liquid enters sewers or public waters.			
METHODS AND MATERIAL FOR COI	NTAINMENT AND CLEANING UP			
For containment	ainment Collect spillage.			
Methods for cleaning up	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.			
Store away from other materials.				

## 7. HANDLING AND STORAGE

#### PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.
Hygiene measures	Wash Always wash hands after handling the product thoroughly after handling. Wash contaminated clothing before reuse.
CONDITIONS FOR SAFE STORAGE,	INCLUDING ANY INCOMPATIBILITIES
Technical measures	Comply with applicable regulations.
Storage conditions	Keep container closed when not in use.
Incompatible products	Strong bases. Stong acids.
Storage temperature	4-38°C
Storage area	keep only in the original container. Protect against frost.
Special rules on packaging	Keen only in original container meet the legal requirements

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME / CAS NO.	OSHA EXPOSURE LIMITS	ACGIH EXPOSURE LIMITS	OTHER EXPOSURE LIMITS		
Water (7732-18-5)	Not Established	Not Established	Not Established		
calcium carbonate (471-34-1)	nte (471-34-1) Not Established 10 mg/m3 TWA		Not Established		
titanium(IV) oxide 13463-67-7	Not Established	10 mg/m3	Not Established		
zinc oxide (1314-13-2)	Not Established	2 mg/m3	Not Established		
latex,liquid,synthetic	Not Established	Not Established	Not Established		
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate (25265-77-4)	,2,4-trimethyl-1,3-pentanediol monoisobutyrate (25265-77-4) Not Established		Not Established		

#### **EXPOSURE CONTROLS**

APPROPRIATE ENGINEERING CONTROLS	
PERSONAL PROTECTIVE EQUIPMENT	Avoid all unnecessary exposure.
HAND PROTECTION	Wear protective gloves.
EYE PROTECTION	Face shield
SKIN & BODY PROTECTION	Wear suitable protective clothing
ENVIROMENTAL EXPOSURE CONTROLS	Avoid release to the environment.
OTHER INFORMATION	Do not eat, drink or smoke during use.



#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Liqudi
Color	White Pure substance: white Unpurified: coloured Colourless Amber
Feezing point	<0°C
Boiling Point	>100°C
Density	10.8 - 11.4 lb/gal
Solubility	Water: ~ 100 %

### 10. STABILITY AND REACTIVITY

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No data available.

**CHEMICAL STABILITY** 

Not established.

POSSIBILITY OF HAZARDOUS REACTIONS

Not established.

**INCOMPATIBLE MATRIALS** 

Strong acids. Strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Corrosive vapours.

#### 11. TOXICOLOGICAL INFORMATION

#### CALCIUM CARBONATE (471-34-1)

CALCIUM CARDUNATE (47	1-54-1)	
LD50 Dermal Rat	6450 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Literature study; >2000 mg/kg; Rat; Experimental value)	
LD50 Dermal Rat	> 2000 mg/kg bodyweight (Rat; Experimental value; Equivalent or similar to OECD 402)	
LC50 inhalation rat (mg/l)	> 3 mg/l/4h (Rat; Experimental value)	
ATE US (oral)	6450.000 mg/kg bodyweight	
TITANIUM(IV) OXIDE (1346	3-67-7)	
LD50 Oral Rat	> 10000 mg/kg (Rat; OECD 425: Acute Oral Toxicity: Up-and-Down Procedure; Experimental value; > 5000 mg/kg bodyweight; Rat; Experimental value)	
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Literature study)	
LD50 Inhalation - Rat	> 6.8 mg/l/4h (Rat; Experimental value)	
ZINC OXIDE (1314-13-2)		
LD50 Oral Rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)	
LD50 dermal rabbit	> 7940 mg/kg (Rabbit; Literature study)	
LC inhalation rat (mg/l)	> 5.7 mg/l/4h (Rat; Experimental value)	
2,2,4-TRIMETHYL-1,3-PENT	ANEDIOL MONOISOBUTYRATE (25265-77-4)	
LD50 Oral Rat	3200 mg/kg (Rat, Oral)	
LD50 dermal rabbit	> 15200 mg/kg (Rabbit, Dermal)	
ATE US (oral)	3200.000 mg/kg bodyweight	





#### TITANIUM(IV) OCXIDE (13463-67-7)

2B - Possibly carinogenic to humans IARC Group

### 12. ECOLOGICAL INFORMATION

TOXICITY		
Ecology - General	Very toxic to aquatic life with long lasting effects.	
CALCIUM CARBONATE (471-34-1)		
LC50 fish 1	> 100 % (96 h; Oncorhynchus mykiss)	
EC50 Daphnia 1	> 100 % (48 h; Daphnia magna)	
TLM fish 1	> 56000 mg/l (96 h; Gambusia affinis)	
Threshold limit algae 1	> 14 mg/l (72 h; Desmodesmus subspicatus; GLP)	
Threshold limit algae 2	14 mg/l (72 h; Desmodesmus subspicatus; GLP)	
TITANIUM(IV) 0XIDE (13463-67-7)		
LC50 fish 1	> 1000 mg/l (96 h; Pimephales promelas)	
EC50 Daphnia 1	< 1000 mg/l (432 h; Daphnia magna; Static system)	
LC50 fish 2	> 1 g/l (96 h; Leuciscus idus)	
EC50 Daphnia 2	< 500 mg/l (720 h; Daphnia magna; Static system)	
Threshold limit algae 1	61 mg/l (72 h; Pseudokirchneriella subcapitata)	
ZINC OXIDE (1314-13-2)		
LC50 fish 1	0.59 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Zinc ion)	
EC50 Daphnia 1	0.068 mg/l (48 h; Daphnia magna; Zinc ion)	
LC50 fish 2	0.14 mg/l (96 h; Oncorhynchus mykiss)	
Threshold limit algae 1	0.136 mg/l (72 h; Pseudokirchneriella subcapitata; Zinc ion)	
Threshold limit algae 2	< 0.12 mg/l (Algae; Zinc ion)	
2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE (25265-77-4)		
LC50 fish 1	30 mg/l (96 h; Pimephales promelas)	
EC50 Daphnia 1	147.8 mg/l (48 h; Daphnia sp.)	
Threshold limit algae 1	3.28 mg/l (72 h; Selenastrum capricornutum; Biomass)	
Threshold limit algae 2	18.4 mg/l (72 h; Selenastrum capricornutum; Growth)	

PERSISTANCE & DEGRADABILITY	
LATEX, LIQUID, SYNTHETIC	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	0.01 g 02/g substance
CALCIUM CARBONATE (471-34-1)	
Persistence and degradability	Inherently biodegradeable
ThOD	Not applicable (inorganic)
TITANIUM(IV) OXIDE (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable. Low potential for mobility in soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable





#### ZINC OXIDE (1314-13-2)

Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemicla oxygen demand (COD)	Not applicable.
THOD	Not applicable.
BOD (% of THOD)	Not applicable
LATEX, LIQUID, SYNTHETIC	
Persistence and degradability	Biodegradability in soil: no data available.
Biochemical oxygen demand (BOD)	0.01 g 02/g substance
2,2,4-TRIMETHYL-1,3-PENTANEDIOL N	10NOISOBUTYRATE (25265-77-4)
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.1 g 02/g substance
THOD	2.4 g 02/g substance
BIOACCUMULATIVE POTENTIAL	
LATEX, LIQUID, SYNTHETIC	
Bioaccumalitive potentiential	not bioaccumalitive
CALCIUM CARBONATE (471-34-1)	
Log Pow	-2.12 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.
TITANIUM(IV) OXIDE (13463-67-7)	
Bioaccumalitive potentiential	not bioaccumalitive
Log Pow	1.53 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
ZINC OXIDE (1314-13-2)	
Log Pow 1	1.53 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2,2,4-TRIMETHYL-1,3-PENTANEDIOL M	10NOISOBUTYRATE (25265-77-4)
Low Pow	3.47 (Experimental value)

#### 13. DISPOSAL CONSIDERATIONS

#### WASTE TREATMENT METHODS

Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Avoid release the environment, Do not discharge into drains or the environment, Do not discharge into the sewer.
Ecology - waste materials	Avoid release to environment

### 14. TRANSPORT INFORMATION

#### **DOT REGULATED COMPONENTS**

In accrodance with DOT Not regulated for transport





#### 15. REGULATORY INFORMATION

#### **US FEDERAL REGULATIONS**

LATEX, LIQUID, SYNTHETIC

C>=13.00%; C<=18.00%

CALCIUM CARBONATE (471-34-1)

C>=24.00%; C<=32.00%

TITANIUM(IV) OXIDE (13463-67-7)

C>=8.00%; C<=12.00%

ZINC OXIDE (1314-13-2)

C>=0.20%; C<=0.50%

2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE (25265-77-4)

C>=0.30%; C<=0.60%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### **US STATE REGULATIONS**

#### RUGGED COATINGS MAAC

RUGGED CUATINGS MAAC	
U.S - California - Proposition 65 - Carcinogens	Yes
U.S - California - Proposition 65 - Developmental Toxicity	No
U.S - California - Proposition 65 - Reproductive Toxicity (f)	No
U.S - California - Proposition 65 - Reproductive Toxicity (m)	No

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

#### 16. OTHER INFORMATION

#### SAFETY DATA SHEET ISSUED BY PRODUCT SAFETY DEPARTMENT

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Rugged Coatings. The data on these sheets relates only to the specific material designated herein. Rugged Coatings assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws.

