

1. IDENTIFICATION OF SUBSTANCE

PRODUCT FORM	Mixture
PRODUCT NAME	Rugged Coatings PrSP
PRODUCT USE	Acylic & Silicone Primer
SUPPLIER IDENTIFICATION	Rugged Coatings 3217 Messer Airport Hwy Birmingham, AL 35222
EMERGENCY TELEPHONE	(800) 424-9300 Chemtrec

2. HAZARD(S) IDENTIFICATION

GHS RATINGS:

Carc. 2 H351

GHS HAZARDS

H351 Suspected of causing cancer

GHS PRECAUTIONS

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P280	Wear protective gloves/protective clothing/eye protection/face protection
P308+P313	If exposed or concerned: Get medical advice/attention
P405	Store locked up.
P501	Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.

LABEL ELEMENTS

PICTOGRAM



SIGNAL WORD Warning

3. COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES

latex,liquid,synthetic	40 - 60%
calcium carbonate (CAS No) 471-34-1	5 - 15%
Water (CAS No) 7732-18-5	5 - 15%
Titanium(IV) oxide	1 - 5%

(CAS No) 13463-67-7

zinc oxide - 1 0-1%
(CAS No) 1314-13-2

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate 0-1%
(CAS No) 25265-77-4

5-chloro-2-methyl-4-isothiazolin-3-one 0-1%
(CAS No) 26172-55-4

4. FIRST-AID MEASURES

GENERAL INFO	IF exposed or concerned: Get medical advice/attention.
INHALATION	Remove person to fresh air and keep comfortable for breathing.
SKIN CONTACT	Wash skin with plenty of water.
EYE CONTACT	Rinse eyes with water as a precaution.
INGESTION	Call a poison center or a doctor if you feel unwell.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable extinguishing media Water spray. Dry powder. Foam.
Carbon dioxide.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Reactivity The product is non-reactive under normal conditions of use, storage and transport.

ADVICE FOR FIREFIGHTERS

Protection during firefighting Do not attempt to take action without suitable protective equipment.
Self-contained breathing apparatus.
Complete protective clothing.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel	Ventilate spillage area.
For emergency responders	Do not attempt to take action without suitable protective equipment.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Methods for cleaning up	Take up liquid spill into absorbent
Other information	Dispose of materials or sold residues at an authorized site

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling	Ensure good ventilation of the work station. Observe normal hygiene standards. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions	Store locked up. Store in a well-ventilated place. Keep cool.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME / CAS NO.	OSHA EXPOSURE LIMITS	ACGIH EXPOSURE LIMITS	OTHER EXPOSURE LIMITS
latex, liquid, synthetic	Not Established	Not Established	Not Established
calcium carbonate (471-34-1)	Not Established	10 mg/m ³ TWA	Not Established
titanium(IV) oxide 13463-67-7	Not Established	10 mg/m ³	Not Established
zinc oxide (1314-13-2)	Not Established	2 mg/m ³	Not Established
2,2,4-trimethyl-1,3-pentanediol	Not Established	Not Established	Not Established
5-chloro-2-methyl-4-isothiazolin-3-one	Not Established	Not Established	Not Established

EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS

PERSONAL PROTECTIVE EQUIPMENT Gloves. Respiratory protection not required in normal conditions. Safety glasses.

HAND PROTECTION Wear protective gloves.

EYE PROTECTION Chemical goggles or safety glasses.

SKIN & BODY PROTECTION Wear suitable protective clothing

RESPIRATORY PROTECTION In case of insufficient ventilation, wear suitable respiratory equipment.

ENVIRONMENTAL EXPOSURE CONTROLS Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	White Pure substance: white Unpurified: coloured White to light yellow Colourless Amber
Odor	Characteristic odour Odourless Almost odourless
pH	8.5-9
Freezing point:	~0°C Do not freeze
Boiling point:	~100°C
Density	~ 8.6 lb/gal
Solubility	Water: Solubility in water component(s) of mixture: • calcium carbonate: 0.0014 g/100ml • titanium(IV) oxide: 0.15 g/100ml • zinc oxide: 0.00029 g/100ml • 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate: 0.090 g/100ml • 5- chloro-2-methyl-4-isothiazolin-3-one: complete
Viscosity, dynamic	~ 1000 cp

10. STABILITY AND REACTIVITY

REACTIVITY

The product is non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY

Stable under normal conditions

POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS

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

CONDITIONS TO AVOID

None under recommended storage and handling conditions (see section 7).

11. TOXICOLOGICAL INFORMATION

LATEX, LIQUID, SYNTHETIC

LD50 Oral Rat 6450 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Literature study; >2000 mg/kg; Rat; Experimental value)

CALCIUM CARBONATE (471-34-1)

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 (13463-67-7)

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; OECD 425: Acute Oral Toxicity: Up-and-Down Procedure; Experimental value; > 5000 mg/kg bodyweight; Rat; Experimental value)

LD50 dermal Rat > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value)

ATE US (oral) > 5.7 mg/l/4h (Rat; Experimental value)

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

LD50 Oral Rat 3200 mg/kg (Rat, Oral)

LD50 dermal rabbit > 15200 mg/kg (Rabbit, Dermal)

LC50 inhalation - rat [ppm] 3200.000 mg/kg bodyweight

LD50 dermal rabbit >5000 mg/kg (Rabbit)

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

IARC Group 2B - Possibly carcinogenic to humans

12. ECOLOGICAL INFORMATION

TOXICITY

Ecology - General The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

CALCIUM CARBONATE (471-34-1)

EC50 Daphnia 1] > 100 % (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)

Threshold limit - Algae [1] > 14 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value)

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

EC50 Daphnia 1] > 100 mg/l (LC50; Equivalent or similar to OECD 202; 48 h; Daphnia magna; Static system; Fresh water; Weight of evidence)

Threshold limit - Algae [1] 61 mg/l (EC50; Other; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)

ZINC OXIDE (1314-13-2)

EC50 Daphnia 2 0.33 - 0.66 mg/l (LC50; Equivalent or similar to OECD 202; 48 h; Daphnia magna; Static system; Fresh water; Read-across)

Threshold limit algae 1 0.136 mg/l (IC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)

LC50 fish 2 0.05 mg/l (96 h, Oncorhynchus mykiss, Literature study)

EC50 Daphnia 2 0.32 mg/l (48 h, Daphnia magna, Literature study)

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

LC50 fish 1 30 mg/l (96 h, Pimephales promelas, Fresh water)

EC50 Daphnia 1 147.8 mg/l (48 h, Daphnia sp.)

PERSISTENCE & 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 O₂/g substance

CALCIUM CARBONATE (471-34-1)

Persistence and degradability Inherently biodegradeable

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

Persistence and degradability Biodegradability: not applicable. Low potential for mobility in soil.

ZINC OXIDE (1314-13-2)

Persistence and degradability Biodegradability: not applicable. Biodegradability in soil: not applicable. Low potential for adsorption in soil.

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

Persistence and degradability Readily biodegradable in water.

Chemical oxygen demand (COD) 2.1 g O₂/g substance

ThOD 2.4 g O₂/g substance

5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE (26172-55-4)

Persistence and degradability Contains non readily biodegradeable components

BIOACCUMULATIVE POTENTIAL

LATEX, LIQUID, SYNTHETIC

Bioaccumulative potential not bioaccumulative

CALCIUM CARBONATE (471-34-1)

Log Pow -2.12 (Estimated value)

Bioaccumulative potential Bioaccumulation: not applicable.

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

Bioaccumulative potential not bioaccumulative

ZINC OXIDE (1314-13-2)

Log Pow 1.53 (Estimated value)

Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

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

Logpow 3.47 (Experiential value)

5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE (26172-55-4)

Bioaccumulative potential Does not contain bioaccumulative component(s).

MOBILITY IN SOIL

ZINC OXIDE (1314-13-2)

Log koc log koc,2.2; literature study

5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE (26172-55-4)

Ecology - soil No (test) data on mobility of components available

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Waste treatment methods Dispose of contents/container in accordance with licensed collector's sorting instructions.

14. TRANSPORT INFORMATION

DOT REGULATED COMPONENTS

In accordance with DOT.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

LATEX, LIQUID, SYNTHETIC

Not Listed on IARC (International Agency for Research on Cancer)

CALCIUM CARBONATE (471-34-1)

Listed on IARC (International Agency for Research on Cancer)

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

Listed on IARC (International Agency for Research on Cancer)

ZINC OXIDE (1314-13-2)

Listed on IARC (International Agency for Research on Cancer)

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

Listed on IARC (International Agency for Research on Cancer)

NATIONAL REGULATIONS

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

Listed on IARC (International Agency for Research on Cancer)

US STATE REGULATIONS

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

U.S. - New Jersey - Right to know Hazardous Substance List

ZINC OXIDE (1314-13-2)

U.S. - New Jersey - Right to know Hazardous Substance List

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.

