

Safety Data Sheet

Product Identifier

SECTION 1. IDENTIFICATION

Product Identifier	Liquid Rubber Polyurethane Deck Coating Textured
Other Means of Identification	PU-300
Recommended Use	Single component protective coating
Restrictions on Use	Manufacture of food products
Initial Supplier Identifier	Liquid Rubber Canada Inc. #16-1150 Eighth Line, Oakville, ON L6H 2R4, CANADA
Emergency Telephone	1-855-451-5820 – 24 hrs a day
Emergency telephone number	Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case
See also section 4 "First aid measures".	

SECTION 2. HAZARD IDENTIFICATION

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Dam. 1; H318, Causes serious eye damage.

Label elements

Hazard pictogram(s)

Signal word = **Danger**



Hazard statement(s)

May cause an allergic skin reaction. (H317)

Causes serious eye damage. (H318)

Precautionary statement(s)

General

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

Prevention

Avoid breathing mist/vapour. (P261)

Wear eye protection/protective gloves/protective clothing. (P280)

Response

IF ON SKIN: Wash with plenty of water and soap. (P302+P352)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)

Take off contaminated clothing and wash it before reuse. (P362+P364)

Storage

Not applicable.

Disposal

Dispose of contents/container in accordance with local regulation. (P501)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable. This product is a mixture.

Chemical Name	CAS No.	Concentration (%w/w)	Classification	Note
2-Oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3- propanediol and 5-isocyanato-1- (isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2- hydroxyethyl acrylate-blocked	68987-79-1	5-10%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412	(19)
ethanediol; ethylene glycol	107-21-1	<1%	Acute Tox. 4, H302 STOT RE 2, H373	n/a

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret. See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

If in eyes: Flush eyes with plenty of water or saline solution (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

Most important symptoms and effects, both acute and delayed

Sensitization: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure. The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Not applicable.

Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Avoid direct contact with the product. Smoking, drinking and consumption of food is not allowed in the work area. See section 8 "Exposure controls/personal protection" for information on personal protection.

Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Keep only in original packaging.

Storage conditions

50-86°F, Dry, cool and well-ventilated

Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents

Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Limestone

Long term exposure limit (OSHA Table Z-1) (mg/m³): 15 (total dust) / 5 (Respirable fraction)

Long term exposure limit (NIOSH REL) (mg/m³): 10 (Total dust), 5 (Respirable fraction)

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Ensure that eyewash stations and safety showers are located within easy reach. Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment.

Type	Class	Color	Standards
Respiratory protection is not needed in the event of adequate ventilation.			

Skin Protection

Recommended	Type/Category	Standards
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	N/A	N/A



Hand Protection

Material	Glove thickness(mm)	Breakthrough time	Standards
Nitrile	0.56	>240 mins	EN374-2, EN374-3 EN388



Eye Protection

Type	Standards
Safety glasses with side shields	EN ISO 16321-1
Safety glasses with side shields	EN166
Face shield	EN ISO 16321-1
Face shield	EN166



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Colour	Various colours
Odour	Characteristic
Odour threshold (ppm)	No data available
pH	8.5
Density (g/cm ³)	No data available
Relative density	No data available
Kinematic viscosity	No data available
Particle characteristics	No data available
Phase changes	
Melting point/Freezing point (°C)	No data available
Softening point/range (°F)	Does not apply to liquids.
Boiling point (°C)	100
Vapour pressure	No data available
Relative vapour density	No data available
Decomposition temperature (°C)	No data available
Data on fire and explosion hazards	
Flash point (°C)	No data available
Flammability (°C)	No data available
Auto-ignition temperature (°C)	No data available
Explosion limits (% v/v)	No data available
Solubility	
Solubility in water	Soluble
n-octanol/water coefficient (LogKow)	No data available
Solubility in fat (g/L)	No data available
Other information	
Sensitivity to shock	No
Evaporation rate (n-butylacetate = 100)	Water
Other physical and chemical parameters	No data available.
Oxidizing properties	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

Possibility of hazardous reactions

None known.

Conditions to avoid

Avoid High Temperatures, Do Not Allow To Freeze, Storage in the open is not recommended.

Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents

Hazardous decomposition products

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product/substance Liquid Rubber Polyurethane Deck Coating Textured

Other information: There is no data available.

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Result: Adverse effect observed (Slightly irritating)
Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Result: Adverse effect observed (Slightly irritating)
Causes serious eye damage.

Respiratory sensitization

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Other information: There is no data available.
Based on available data, the classification criteria are not met.

Skin sensitization

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Other information: There is no data available.
May cause an allergic skin reaction.

Germ cell mutagenicity

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Other information: There is no data available.
Based on available data, the classification criteria are not met.

Carcinogenicity

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Other information: There is no data available.
Based on available data, the classification criteria are not met.

Reproductive toxicity

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Other information: There is no data available.
Based on available data, the classification criteria are not met.

STOT-single exposure

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Other information: There is no data available.
Based on available data, the classification criteria are not met.

STOT-repeated exposure

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Other information: There is no data available.
Based on available data, the classification criteria are not met.

Aspiration hazard

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Other information: There is no data available.
Based on available data, the classification criteria are not met.

Long term effects

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

Other information

None known.

SECTION 12. ECOLOGICAL INFORMATION**Toxicity**

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Other information: There is no data available.
Based on available data, the classification criteria are not met.

Persistence and degradability

Product/substance Liquid Rubber Polyurethane Deck Coating Textured
Conclusion: -
Other information: There is no data available.

Bioaccumulative potential

Product/substance Liquid Rubber Polyurethane Deck Coating Textured

Conclusion: -

Other information: There is no data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

Other adverse effects

None known.

SECTION 13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

None of the components are listed

Specific labelling**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14. TRANSPORT INFORMATION

	UN / ID	UN proper shipping name	Hazard class(es)	PG*	Env**
DOT	-	This product is not regulated		-	No
IMDG	-	This product is not regulated		-	No
IATA	-	This product is not regulated		-	No

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR/ADN/RID, IATA and IMDG.

DOT / See § 172.101 Hazardous Materials Table for any information on special provisions, requirements, or warnings in connection with transport. See § 172.602, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations

TSCA (the non-confidential portion)

Limestone is listed

2-Oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 5-isocyanato-1- (isocyanatomethyl)-

1,3,3-trimethylcyclohexane, 2-hydroxyethyl acrylate-blocked is listed

ethanediol ethylene glycol is listed

2,2' -oxybisethanol; diethylene glycol is listed

Clean Air Act

ethanediol ethylene glycol is regulated as a hazardous air pollutant (HAPS)

EPCRA Section 302

None of the components are listed

EPCRA Section 304

None of the components are listed

EPCRA section 313

ethanediol ethylene glycol is listed

CERCLA

ethanediol ethylene glycol is regulated with a Reportable Quantity (RQ) of: 5000 pounds

Hazardous chemical inventory reporting

State regulations

California / Prop. 65

ethanediol ethylene glycol is known to cause: Developmental Toxicity NSRL/MADL (µg/day): 8700 (oral)

Massachusetts / Right To Know Act

Limestone is listed ethanediol ethylene glycol is listed

New Jersey / Right To Know Act

Limestone / Substance number: 4001

ethanediol ethylene glycol / Substance number: 0878

New York / Right To Know Act

ethanediol ethylene glycol is listed

ethanediol ethylene glycol is regulated with a Reportable Quantity (RQ) of: 1 pounds

ethanediol ethylene glycol is regulated with a Threshold Reporting Quantity (TRQ) of: 0 pounds

Pennsylvania / Right To Know Act

Limestone is listed

ethanediol ethylene glycol is listed

ethanediol ethylene glycol is hazardous to the environment (E)

— 2,2' -oxybisethanol; diethylene glycol is listed

Restrictions for application

No special.

Demands for specific education

No specific requirements.

Additional information

Not applicable.

Chemical safety assessment

No

Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16. OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H318, Causes serious eye damage.

H373, May cause damage to organs through prolonged or repeated exposure.

H412, Harmful to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogKow = logarithm of the n-octanol/water coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

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