

Material Safety Data Sheet



Revision Date 20-Apr-2005

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product code DL3320
Product name BARE BONES
Recommended Use Paint Remover
Supplier Drummond American Corporation
600 Corporate Woods Parkway
Vernon Hills, IL 60061
(847) 913-9313
Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Corrosive. Irritant. Harmful by inhalation, in contact with skin and if swallowed.

Color Orange

Odor Citric

Form Liquid

Aggravated Medical Conditions Pre-existing diseases of the central nervous system. Pre-existing gastrointestinal disorders. Pre-existing kidney and/or liver disorders may be aggravated by exposure to this product. Pre-existing skin, eye, or respiratory conditions may be aggravated by exposure to this product.

Principal Routes of Exposure Ingestion. Inhalation. Skin absorption. Eyes.

Potential health effects

Eyes Exposure to vapors may cause the following effects: Severe irritation. Tearing. Redness. Swelling. Burning sensation. Blurred vision.

Skin Mild irritation. - . Severe irritation. Redness. Blistering. Symptoms may be delayed. Chronic exposure causes drying effect on the skin .

Inhalation Avoid breathing vapors or mists. Headaches. Coughing. Shortness of breath. Dizziness. Respiratory irritation. Symptoms of intoxication.

Ingestion Swallowing substance may cause the following effects: Severe irritation. Abdominal pain. Nausea. Vomiting. Can burn mouth, throat, and stomach. Lethargy. Central nervous system effects. Unconsciousness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
1-Methyl-2-pyrrolidone	872-50-4	60-100
D-Limonene	5989-27-5	10-30
Nonylphenol Ethoxylate	9016-45-9	1-5
Triethanolamine	102-71-6	1-5
Aromatic Phosphate Ester	Mixture	1-5
Hydroxypropyl Methylcellulose	9004-65-3	0.5-1.5
Hydroxypropyl Cellulose	9004-64-2	0.5-1.5

4. FIRST AID MEASURES

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear. Wash area thoroughly with soap and water. Seek medical attention if irritation persists.
Ingestion	Never give anything by mouth to an unconscious person. Give several glasses of water. Do not induce vomiting. Seek medical attention immediately.
Inhalation	Remove to fresh air. Provide oxygen if breathing is difficult. Administer artificial respiration if not breathing. Immediate medical attention is required.
Notes to physician	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash point °C	46
Flash point °F	115
Method	Closed cup
Autoignition temperature °C	No data available
Autoignition temperature °F	
Flammability Limits (% in Air)	
Upper	No data available
Lower	No data available

Suitable extinguishing media

Water spray. Dry chemical. Carbon dioxide. Alcohol foam.

Extinguishing media which must NOT be used for safety reasons

No information available.

Special Fire-Fighting Procedures

Exothermic reaction with water. Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Do not release run-off from fire control methods to sewers or waterways. Evacuate area of unprotected and unnecessary personnel.

Fire and Explosion Hazards

Combustible liquid. Vapors are heavier than air and may travel along the ground to an ignition source distant from material handling area. Possible ignition sources include pilot lights, flames, lighted cigarettes, heating elements, electric motors, sparks from electrical switches..

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Evacuate area of unprotected and unnecessary personnel. Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Collect run-off water and dispose. Do not drain to sewer without dilution. Neutralize spill with soda ash and dilute with plenty of water. Use caution as spill may create a slip hazard.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Thoroughly wash hands and exposed skin after handling. Remove and wash contaminated clothing before re-use. Avoid breathing vapors or mists. Ensure adequate ventilation. Do not ingest. Keep container closed when not in use. Do not cut, drill, grind, or weld near containers.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep away from heat and sources of ignition. Store away from flammable and combustible materials. Do not store in unlabeled or mislabeled containers. Follow all label directions. Do not freeze. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
1-Methyl-2-pyrrolidone	-	-	-	-
D-Limonene	-	-	-	-
Nonylphenol Ethoxylate	-	-	-	-
Triethanolamine	-	-	5 mg/m ³	-
Aromatic Phosphate Ester	-	-	-	-
Hydroxypropyl Cellulose	-	-	-	-
Hydroxypropyl Methylcellulose	-	-	-	-

Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, or both, to keep below the TLV's in the worker's breathing zone and the general area.

Hygiene measures

For environmental protection remove and wash all contaminated protective equipment before re-use. Wash hands and face before breaks and immediately after handling the product. Wash hands before eating or using the washroom. When using, do not eat, drink or smoke.

Personal protective equipment**Respiratory protection**

Recommended for confined environments. Follow OSHA respirator regulations (29 CFR 1910.134) and if necessary, wear a MSHA/NIOSH approved respirator. Wear a self-contained breathing apparatus (SCBA). Seek professional advice prior to respirator selection and use.

Hand protection

Chemical resistant gloves.

Eye protection

ANSI approved safety glasses or splash goggles with face shield are recommended. Contact lenses should not be worn.

Skin and body protection

Chemical resistant apron. Boots.

Other Protective Equipment

A safety shower and eye wash station should be available for emergency use. Wear appropriate clothing to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid	Color	Orange
Odor	Citric	Odor Threshold	No information available
pH	No data available	Specific Gravity	0.98-1.02
Vapor pressure	<2	Vapor density	No data available
Evaporation Rate	< 1 (ether = 1)	Solubility	partly soluble
VOC Content	100 %	Water solubility	100%
Partition Coefficient (n-octanol/water)	No data available		
Boiling point/range °C	> 148	Boiling point/range °F	> 300
Melting point/range °C	< -23	Melting point/range °F	< -10
Flash point °C	46	Flash point °F	115

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to avoid

Avoid extreme heat. Avoid heat, sparks, and other sources of ignition. Avoid open flames.

Materials to avoid

Strong oxidizing agents. Acids. Reducing agents. Peroxides. Halogens. Combustible materials. Plastics.

Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrous oxide.

Polymerization

Will not occur.

Synergistic Products

No information available.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>1-Methyl-2-pyrrolidone</i> 872-50-4	3914 mg/kg	8 g/kg	-
<i>D-Limonene</i> 5989-27-5	4400 mg/kg	5 g/kg	-
<i>Nonylphenol Ethoxylate</i> 9016-45-9	1310 mg/kg	2 mL/kg	-
<i>Triethanolamine</i> 102-71-6	4920 µL/kg	20 mL/kg	-
<i>Aromatic Phosphate Ester Mixture</i>	-	-	-
<i>Hydroxypropyl Cellulose</i> 9004-64-2	10200 mg/kg	-	-
<i>Hydroxypropyl Methylcellulose</i> 9004-65-3	-	-	-

Potential health effects**Sensitization**

No information available.

Chronic toxicity

Possible risks of irreversible effects..

Mutagenic effects

No information available.

Teratogenic effects

No information available

Reproductive toxicity

No information available

Target Organ Effects

Eyes. Skin. Respiratory system. Central nervous system. Gastrointestinal system.

Carcinogenic effects

See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
1-Methyl-2-pyrrolidone	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
D-Limonene	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Nonylphenol Ethoxylate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Triethanolamine	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Aromatic Phosphate Ester	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Hydroxypropyl Cellulose	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Hydroxypropyl Methylcellulose	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Aquatic toxicity

1-Methyl-2-pyrrolidone

Water Flea Data

water flea LC50=3135 mg/L (96 h)

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Dispose in accordance with federal, state, and local regulations. Incinerate if allowed.

Disposal Information

Carefully follow label instructions for disposal. .

14. TRANSPORT INFORMATION

DOT

Consumer commodity ,ORM-D,

TDG

FLAMMABLE LIQUID, N.O.S., Class 3,UN1993,PG III

IMDG/IMO

Flammable liquid, n.o.s.,UN1993,PG III

IATA

Flammable liquid, n.o.s.*,UN1993,PG III
Hazard Class 3

MEX

UN1993 Flammable liquid, n.o.s.,3,III

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
1-Methyl-2-pyrrolidone	Listed

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
1-Methyl-2-pyrrolidone	Not Listed	Listed	Developmental
D-Limonene	Not Listed	Not Listed	Not Listed
Nonylphenol Ethoxylate	Not Listed	Not Listed	Not Listed
Triethanolamine	Not Listed	Listed	Not Listed
Aromatic Phosphate Ester	Not Listed	Not Listed	Not Listed
Hydroxypropyl Cellulose	Not Listed	Not Listed	Not Listed
Hydroxypropyl Methylcellulose	Not Listed	Not Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
1-Methyl-2-pyrrolidone	X	X	-	X
D-Limonene	X	X	-	X
Nonylphenol Ethoxylate	-	X	-	X
Triethanolamine	X	X	-	X
Aromatic Phosphate Ester	-	-	-	-
Hydroxypropyl Cellulose	-	X	-	X
Hydroxypropyl Methylcellulose	-	X	-	X

CPRC

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION

NFPA		HMIS	
Health	2	Health	2
Flammability	2	Flammability	2
Reactivity	0	Physical Hazard	0

Reason for revision No information available.

Prepared By T. Heidorn, MSDS Project Lead

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.