

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 077
Material name Slick Multi-Purpose Release Coating
Company information Ricmar Industries, Inc.

Company phone 889 N. Larch Avenue
Emergency telephone US Elmhurst, IL 60126 United States
800-323-0779
Emergency telephone outside US 1-952-852-4646

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2. Hazards Identification

Emergency overview DANGER

Pressurized container may explode when exposed to heat or flame. HARMFUL OR FATAL IF SWALLOWED.
Aerosol, EXTREMELY FLAMMABLE. Will be easily ignited by heat, spark or flames. CONTENTS UNDER PRESSURE.
Harmful in contact with eyes. Irritating to skin. Irritating to respiratory system. Prolonged exposure may cause chronic effects.

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

OSHA regulatory status
Potential health effects

Routes of exposure

Eyes

Skin contact. Eye contact. Inhalation.
Causes eye irritation.

Skin

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Irritating to skin.

Inhalation

Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. Prolonged inhalation may be harmful.

Ingestion

Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.

Target organs

Central nervous system. Lungs.

Chronic effects

Shortness of breath. Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause delayed lung injury.

Signs and symptoms

Discomfort in the chest. Shortness of breath. Narcosis. Decrease in motor functions. Behavioral changes. Coughing. Conjunctivitis. Defatting of the skin. Rash. Skin irritation.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Acetone	67-64-1	20 - 40
Butane	106-97-8	20 - 40
Propane	74-98-6	20 - 40
Aliphatic Petroleum Solvent	64742-89-8	10 - 20
Synthetic Isoparaffinic Hydrocarbon	64742-47-8	2.5 - 10

4. First Aid Measures

First aid procedures

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contact

Immediately flush skin with plenty of water. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

Inhalation

If symptoms develop move victim to fresh air. Oxygen or artificial respiration if needed. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or Poison Control Center immediately.

Ingestion

Rinse mouth thoroughly. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to physician

Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties

Flammable by OSHA criteria. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media

Alcohol foam. Dry chemical. Carbon dioxide (CO₂). Do not use water jet.

Unsuitable extinguishing media

Do not use water jet. Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

Specific methods

In the event of fire and/or explosion do not breathe fumes.

6. Accidental Release Measures

Personal precautions

Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unnecessary personnel away. Keep out of low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods for containment

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk.

Methods for cleaning up

Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. Handling and Storage

Handling

Vapors may form explosive mixtures with air. Pressurized container: Do not pierce or burn, even after use. Do not smoke. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not spray on a naked flame or any other incandescent material. All equipment used when handling the product must be grounded. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Use only in well-ventilated areas. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid prolonged exposure.

Storage

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. This material can accumulate static charge which may cause spark and become an ignition source. Keep in an area equipped with sprinklers. Keep out of the reach of children. Use care in handling/storage. Keep away from food, drink and animal feedings/stuffs. Level 3 Aerosol.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH Biological Exposure Indices

Components	Type	Value
Acetone (CAS 67-64-1)	BEI	50 mg/l
US, ACGIH Threshold Limit Values	Type	Value

Acetone (CAS 67-64-1)

STEL	750 ppm
TWA	500 ppm

US, OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Acetone (CAS 67-64-1)	PEL	2400 mg/m ³
		1000 ppm
Propane (CAS 74-98-6)	PEL	1800 mg/m ³
		1000 ppm

Personal protective equipment

Eye / face protection

Avoid contact with eyes. Face-shield. Chemical goggles are recommended.

Skin protection

Avoid contact with the skin. Wear suitable protective clothing. Chemical resistant gloves.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

General hygiene

Keep away from food and drink. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance

Clear.

Auto-ignition temperature

768.64 °F (409.25 °C) estimated

Boiling point

48.4 °F (9.11 °C) estimated

Color

Colorless.

Flammability limits in air, upper, % by volume

8.5 % estimated

Flammability limits in air, lower, % by volume

2.1 % estimated

Flash point

-156.00 °F (-104.44 °C) Propellant estimated

Form

Aerosol.

Odor

Solvent.

Odor threshold

Not available.

pH

Not applicable estimated

Physical state

Liquid.

Solubility (water)

Not available.

Specific gravity

0.645 estimated estimated

Vapor pressure

50 - 70 psig @ 70F estimated

Other data

Heat of combustion

37 kJ/g estimated

10. Chemical Stability & Reactivity Information

Chemical stability

Risk of ignition. Unstable.

Conditions to avoid
Hazardous decomposition products

Aerosol containers are unstable at temperatures above 49°C.
No hazardous decomposition products are known.

11. Toxicological Information

Toxicological data	Species	Test Results
Silicone Release Agent (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	66768.375 mg/kg, estimated 66.7684 ml/kg, estimated 8680 mg/kg
<i>Inhalation</i>		
LC50	Mouse	3148.1479 mg/l, 2 Hours, estimated 6166.0127 mg/l, 15 Minutes, estimated 3046.2964 mg/l, 4 Hours, estimated 167.2548 mg/l, 8 Hours, estimated 61 mg/l/4h
<i>Oral</i>		
LD50	Mouse	10015.2568 mg/kg, estimated
	Rabbit	17827.1563 mg/kg, estimated
<i>Other</i>		
LD50	Mouse	4329.9292 mg/kg, estimated
	Rat	18361.3047 mg/kg, estimated
Components		
Acetone (CAS 67-64-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	20000 mg/kg 20 ml/kg
<i>Inhalation</i>		
LC50	Rat	76 mg/l, 4 Hours 50.1 mg/l, 8 Hours
<i>Oral</i>		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
<i>Other</i>		
LD50	Rat	5800 mg/kg
	Mouse	1297 mg/kg
	Rat	5500 mg/kg
Butane (CAS 106-97-9)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	680 mg/l, 2 Hours 658 mg/l, 4 Hours
	Rat	658 mg/l, 4 Hours

Components Species

Test Results

Propane (CAS 74-98-6)	
Acute	
Inhalation	
LC50	Rat
	> 1442.847 mg/l, 15 Minutes
	658 mg/l/4h

Acute effects Acute LD50: 9680 mg/kg, Rat, Dermal

Local effects Irritating to skin. Irritating to respiratory system. Components of the product may be absorbed into the body through the skin. Contact with eyes may cause irritation.

Chronic effects Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Acetone (CAS 67-64-1) A4 Not classifiable as a human carcinogen.

Epidemiology Hazardous by OSHA criteria.

Neurological effects Hazardous by OSHA criteria.

Further information Symptoms may be delayed.

12. Ecological Information

Ecotoxicological data

Product	Species	Test Results
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Silicone Release Agent (CAS Mixture)

Algae IC50 Algae 31333 mg/L, 72 Hours

Crustacea EC50 Daphnia 46735 mg/L, 48 Hours

Fish LC50 Fish 715 mg/L, 96 Hours

Components Species Test Results

Acetone (CAS 67-64-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 21.6 - 23.9 mg/l, 48 hours

Fish LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss) 4740 - 6330 mg/l, 96 hours

Aliphatic Petroleum Solvent (CAS 64742-89-8)

Algae IC50 Algae 4700 mg/L, 72 Hours

Synthetic Isoparaffinic Hydrocarbon (CAS 64742-47-8)

Aquatic

Fish LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss) 2.9 mg/l, 96 hours

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

LC50: 715 mg/L, Fish, 96.00 Hours

EC50: 46735 mg/L, Daphnia, 48.00 Hours

IC50: 31333 mg/L, Algae, 72.00 Hours

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability Not available.

Bioaccumulation / Accumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Acetone -0.24

Butane 2.89

Propane 2.36

Partition coefficient

Acetone	-0.24
Butane	2.89
Propane	2.36

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F

US RCRA Hazardous Waste U List: Reference

Acetone (CAS 67-64-1)

U002

Disposal instructions

Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001.

Contaminated packaging

Do not re-use empty containers.

14. Transport Information**DOT****Basic shipping requirements:**

UN number	UN1950
Proper shipping name	Aerosols
Hazard class	2.1

Additional information:

Special provisions	153, N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2013, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/13 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Labels required	2.1
ERG code	10L
Packaging Exceptions	LTD QTY

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Labels required	None
Packaging Exceptions	LTD QTY

DOT



15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

Drug Enforcement Administration (DEA), List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical

Code Number

Acetone (CAS 67-64-1)

150 kg by weight
50 gallons by volume

6532

Drug Enforcement Administration (DEA), List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1)

35 % weight/volume

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1)

6532

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity

Acetone: 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

Section 302 extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

State regulations

US - New Jersey RTK - Substances: Listed substance

Acetone (CAS 67-64-1)	Listed.
Butane (CAS 106-97-8)	Listed.
Propane (CAS 74-98-6)	Listed.

US, Pennsylvania RTK - Hazardous Substances

Acetone (CAS 67-64-1)	Listed.
Butane (CAS 106-97-8)	Listed.
Propane (CAS 74-98-6)	Listed.

16. Other Information

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.

Product and Company Identification: Product Codes

This data sheet contains changes from the previous version in section(s):