

Material Safety Data Sheet



Revision Date 05-Dec-2005

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product code DA7560
Product name Free Ride
Recommended Use Lubricant
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

Harmful by inhalation. Flammable.

Color Colorless

Odor Slight Sweet Solvent

Form Aerosol

Aggravated Medical Conditions None Known.

Principal Routes of Exposure Inhalation. Eyes. Skin.

Potential health effects

Eyes Irritation. Redness. Burning sensation.

Skin Repeated or prolonged exposure may cause: Itching. Redness. Burning sensation.

Inhalation Headaches. Dizziness. Nausea. Loss of coordination. Irritating to respiratory system. Central nervous system effects. Extreme overexposure may cause. Possible unconsciousness. Death. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Butane	106-97-8	10-30
Graphite	7782-42-5	0.5-1.5
Propane	74-98-6	10-30
Heptane (n-)	142-82-5	30-60
Toluene	108-88-3	0.5-1.5
Isopropyl Alcohol	67-63-0	15-40

4. FIRST AID MEASURES

Eye contact	Flush with plenty of water for at least 15 minutes. Seek medical attention.
Skin contact	Wash area thoroughly with soap and water. Remove and wash contaminated clothing before re-use.
Ingestion	Do not induce vomiting. Seek medical attention immediately.
Inhalation	Remove from exposure. Restore breathing. Keep warm and quiet. Contact physician if breathing difficulty develops.

5. FIRE FIGHTING MEASURES

Flash point °C	< -17.78
Flash point °F	< 0
Method	No information available

Autoignition temperature °C	No data available
Autoignition temperature °F	No data available

Flammability Limits (% in Air)

Upper	12.7
Lower	1.0

Specific Information for Aerosol Products

Flame extension	18-36 in
Flashback	Yes

Suitable extinguishing media

Carbon dioxide (CO₂). Dry chemical. Foam.

Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Special Fire-Fighting Procedures

Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Specific hazards

Keep product and empty container away from heat and sources of ignition

Fire and Explosion Hazards

Containers may vent or burst under extreme or prolonged fire conditions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up

Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Handling

Vapors may accumulate readily and may ignite explosively. Ensure adequate ventilation. Do not smoke. Keep away from open flames, hot surfaces and sources of ignition. Do not puncture or incinerate. Do not take internally. Ground and bond containers when transferring material. Contents under pressure.

Storage

Store in temperatures below 120 degrees F. Keep away from heat and sources of ignition. Containers exposed to extreme heat may burst. 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)
Heptane (n-)	2000 mg/m ³ 500 ppm	-	400 ppm	500 ppm
Isopropyl Alcohol	400 ppm 980 mg/m ³	-	200 ppm	400 ppm
Propane	1000 ppm 1800 mg/m ³	-	1000 ppm 1000 ppm listed under aliphatic hydrocarbon gases alkane C1-C4	-
Butane	800 ppm	-	1000 ppm 1000 ppm listed under aliphatic hydrocarbon gases alkane C1-C4	-
Toluene	200 ppm	300 ppm	50 ppm	-
Graphite	-	-	2 mg/m ³ respirable fraction, all forms except graphite fibers	-

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. General: as necessary.

Hygiene measures

Wash hands after handling the product.

Other precautions

Avoid contact with skin and eyes

Personal protective equipment**Respiratory protection**

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended. Avoid breathing concentrated vapors or particles from all products not specifically designed to be inhaled.

Hand protection

Gloves are not required in normal use. Gloves are recommended to prevent prolonged or repeated contact. Chemical resistant gloves.

Eye protection

Wear safety glasses with side shields.

Skin and body protection

None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol	Color	Colorless
Odor	Slight Sweet Solvent	Odor Threshold	No information available
pH	No data available	Specific Gravity	0.66
Vapor pressure	No data available	Vapor density	>Air
Evaporation Rate	>1 (Ether =1)	VOC Content	98.8 %
Water solubility	No data available	Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	< -18-114	Boiling point/range °F	< 0-238
Melting point/range °C	Not Applicable	Melting point/range °F	Not Applicable
Flash point °C	< -17.78	Flash point °F	< 0

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

None known.

Materials to avoid

None known .

Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

Polymerization

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Heptane (n-)</i> 142-82-5	-	-	103 g/m ³
<i>Isopropyl Alcohol</i> 67-63-0	4396 mg/kg	12800 mg/kg 12800 mg/kg	72.6 mg/L
<i>Propane</i> 74-98-6	-	658 mg/kg	-
<i>Butane</i> 106-97-8	-	-	658 g/m ³
<i>Toluene</i> 108-88-3	636 mg/kg	8390 mg/kg	12.5 mg/L 26700 ppm
<i>Graphite</i> 7782-42-5	-	-	-

Synergistic Products

None known

Potential health effects

Sensitization

None known .

Mutagenic effects

None known .

Reproductive toxicity

None known .

Carcinogenic effects

See table below

Chronic toxicity

See Section 2 .

Teratogenic effects

None known .

Target Organ Effects

Liver. Urinary system. Cardiovascular system. Nervous system.

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Heptane (n-)	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Isopropyl Alcohol	A4 - Not Classifiable as a Human Carcinogen	Group 1	Not Listed	Not Listed	Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Toluene	A4 - Not Classifiable as a Human Carcinogen	Not Listed	Not Listed	Not Listed	Not Listed
Graphite	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Isopropyl Alcohol

Microtox Data

Photobacterium phosphoreum EC50=35390 mg/L (5 min)

Toluene

Microtox Data

Photobacterium phosphoreum EC50=19.7 mg/L (30 min)

Water Flea Data

water flea EC50=11.3 mg/L (48 h)

water flea EC50=310 mg/L (48 h)

13. DISPOSAL CONSIDERATIONS

Disposal Information

Waste must be tested for ignitability to determine EPA hazardous waste numbers. Do not incinerate. Depressurize before disposal. Dispose in accordance with federal, state, and local regulations.

Waste from residues / unused products

As supplied, this product is a RCRA Hazardous Waste .

14. TRANSPORT INFORMATION

DOT

Consumer commodity (Heptane (n-),Isopropyl Alcohol),ORM-D,

TDG

AEROSOLS(Heptane (n-),Isopropyl Alcohol), Class 2.1,UN1950,PG

IMDG/IMO

Aerosols(Heptane (n-),Isopropyl Alcohol),UN1950,PG

IATA

Aerosols, flammable(Heptane (n-),Isopropyl Alcohol),UN1950
Hazard Class 2.1

MEX

UN1950 Aerosols(Heptane (n-),Isopropyl Alcohol),2.2,

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Isopropyl Alcohol	Listed
Toluene	Listed

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Heptane (n-)	Listed	Listed	Not Listed
Isopropyl Alcohol	Not Listed	Listed Listed	Not Listed
Propane	Listed	Listed	Not Listed
Butane	Listed	Listed	Not Listed
Toluene	Listed	Listed	Developmental
Graphite	Not Listed	Listed	Not Listed

Chemical Name	EINECS	DSL	NDSL	TSCA
Heptane (n-)	X	X	-	X
Isopropyl Alcohol	X	X	-	X
Propane	X	X	-	X
Butane	X X	X	-	X
Toluene	X	X	-	X
Graphite	X	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	-
Flammability	4	Flammability	-
Reactivity	0	Physical Hazard	-

Prepared By

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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.