



SAFETY DATA SHEET

Issue Date 8/10/15

Revision Date 8/10/15

Version 1

1. IDENTIFICATION

Product identifier

Product Name: Red Spray Grease

Other means of identification

Product code: F-856

Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended Use: Lubricant.

Uses advised against: No information available

Details of the supplier of the safety data sheet

Supplier Address

FRONTIER PERFORMANCE LUBRICANTS INC PO
BOX 1777
LODI, CA 95241
Phone: (800)-807-4496
Fax: (209)-334-6408

Emergency telephone number

Emergency Telephone: PERS (800)-633-8253

2. HAZARDS IDENTIFICATION

Physical Hazard Classification: Flammable Aerosols, Category 1
DANGER



Physical Hazard Precautionary Statements:

Extremely flammable aerosol.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Protect from sunlight.

Do not expose to temperatures exceeding 50 °C/122°F.

Health Hazard Classification(s):

Acute Toxicity - Oral - Level 5

Warning

Acute Toxicity - Dermal - Level 5

Warning

Acute Toxicity - Inhalation - Level 5

Warning

Skin Corrosion/Irritation -Level 3

Warning

Eye Damage/Irritation -Level 2B

Warning

Specific Target Organ Toxicity (Single Exposure) –

Warning

Specific Target Organ Toxicity (Repeated Exposure) –

Warning

Aspiration Hazard - Level 1

Danger



Health Hazard Statements:

May be harmful if swallowed.

May be fatal if swallowed and enters airways.

May be harmful in contact with skin.

Causes mild skin irritation.

Causes eye irritation.

May be harmful if inhaled.

May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is

May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure

3. COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	% Range		PEL	TLV
HYDROCARBON PROPELLANT	68476-86-8	5%	30%	NO DATA	NO DATA
ACETONE *	67-64-1	5%	30%	TWA 1000 PPM	TWA 750 PPM STEL 1000 PPM
HYDROTREATED LIGHT DISTILLATE	64742-47-8	10%	40%	NONE ESTABLISHED BY OSHA	NONE ESTABLISHED BY OSHA
HIGHLY REFINED BASE OIL	64742-65-0	10%	40%	NO LIMIT	NO LIMIT
ALIPHATIC HYDROCARBON *	110-54-3	1%	10%	500 PPM	50 PPM

Specific chemical identity and exact percentages are withheld as Trade Secret.

4. FIRST AID MEASURES

IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Call a POISON CENTER/doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell.

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

GENERAL: This material is an aspiration hazard and defats the skin. Breathing vapors of high concentrations may cause CNS depression. EYE CONTACT: Slightly irritating but does not injure eye tissue.

SKIN CONTACT: Low order of toxicity. Frequent or prolonged contact may irritate and cause dermatitis. Skin contact may aggravate an existing dermatitis condition.

INHALATION: High vapor/aerosol concentrations (greater than approximately 100 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

INGESTION: Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly minimal toxicity.

FIRST AID

EYE CONTACT: Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT:	Flush with large amounts of water; use soap if available. Remove grossly contaminated clothing, including shoes, and launder before reuse.
INHALATION:	Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention
INGESTION:	If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.
PRECAUTIONS	
SPECIAL PRECAUTIONS:	Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.
PERSONAL PROTECTION:	For open systems where contact is likely, wear safety glasses with side shields, long sleeves, and chemical resistant gloves.

Where concentrations in air may exceed the limits, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

VENTILATION:	The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures, or is agitated.
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5. FIRE-FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS:	This product releases Flammable Vapors at well below ambient temperatures and readily forms flammable mixtures with air exposed to an ignition source. It will burn in the open or be explosive in confined spaces. Its vapors are heavier than air and may travel long distances to a point of ignition, and then flash back. Alkaline/chlorine gas mixtures have produced explosions.
EXTINGUISHING MEDIA:	Dry Chemical. CO2. Halogenated Extinguishing Agent. Stop Gas Flow.
SPECIAL FIREFIGHTING PROCEDURES:	Gas fires should not be extinguished unless the gas flow can be stopped immediately. Allow the fire to burn itself out. If the source cannot be shut off immediately, all equipment and surfaces exposed to the fire should be cooled with water to prevent over-heating flash-backs, or explosions. Control fire until gas supply can be shut off. Use proper protective equipment. Use fresh air respirator when exposure to hazardous concentrations of toxic gases is possible.
FIRE FIGHTING:	Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Use foam, dry chemical, or water spray to extinguish fire. Avoid spraying water directly into storage containers due to danger of boiling over. This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:	Clean up area by mopping or with absorbent materials and place in closed container for disposal. Consult Federal, State, and local disposal authorities.
WASTE DISPOSAL METHOD:	Consult local authorities for proper waste disposal procedures. Empty de-pressurized containers can not be reused. Cans which are pressurized or contain liquid must be disposed of in a permitted waste management facility. Consult Federal, State, and local disposal authorities for approved procedures.

7. HANDLING AND STORAGE

Store locked up.

VENTILATION REQUIREMENT: Use adequate level exhaust ventilation. Note: Where carbon monoxide may be generated, special ventilation may be required. Local exhaust recommended when appropriate to control employee exposure.

RESPIRATORY PROTECTION: Based on contamination level and working limits of the respirator, use a respirator approved by NIOSH/MSHA.

EYES: Face shield and goggles or chemical goggles should be worn.

GLOVES: Impervious gloves should be worn. Gloves contaminated with the product should be discarded. Polyfluorinated polyethylene has been suggested.

OTHER CLOTHING EQUIPMENT: Standard work clothing. Standard work shoes; discard if shoes can not be decontaminated. Store contaminated clothing in well ventilated cabinets or closed containers. Wash contaminated clothing and dry before reuse.

RESPIRATORY PROTECTION: In situations where vapor concentrations exceed the recommended exposure limits, a NIOSH approved organic vapor cartridge or air-supplying respirator should be worn.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands and exposed areas thoroughly after handling.

Do no eat, drink or smoke when using this product.

VENTILATION REQUIREMENT: Use adequate level exhaust ventilation. Note: Where carbon monoxide may be generated, special ventilation may be required. Local exhaust recommended when appropriate to control employee exposure.

RESPIRATORY PROTECTION: Based on contamination level and working limits of the respirator, use a respirator approved by NIOSH/MSHA.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point (CCP):	-136°F
Boiling Point for Product:	N/D
Vapor Pressure for Product:	N/D
Vapor Density for Product:	N/D
Specific Gravity:	N/D
V.O.C.:	<25% by weight
Water Solubility:	NIL
Appearance:	AEROSOL SPRAY
PH:	N/D

10. STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	Temperatures above 130 degree F.
HAZARDOUS POLYMERIZATION:	Will not occur
MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:	Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS:	None

11. TOXICOLOGICAL INFORMATION

ACETONE *	67-64-1
Acute oral toxicity:	LD 50 Rat: 5,800 mg/kg
Acute inhalation toxicity:	LC 50 Rat: > 16,000 ppm, 4 h
Acute dermal toxicity:	LD 50 Rabbit: > 20,000 mg/kg
Single exposure risk:	Targets nervous system and may cause drowsiness or dizziness. If a person shows signs of overexposure, remove to fresh air.
HYDROTREATED LIGHT DISTILLATE	64742-47-8
Acute oral toxicity:	LD 50 Rat: > 8,000 mg/kg
Acute inhalation toxicity:	LD 50 Rat: > 2500 ppm, 4 h
Acute dermal toxicity:	LD 50 Rabbit: > 4,000 mg/kg
HIGHLY REFINED BASE OIL INHALATION.	64742-65-0 Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.
SKIN CONTACT.	Repeated or prolonged contact can result in drying of the skin.
EYE CONTACT.	Irritating. INGESTION. Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.
ALIPHATIC HYDROCARBON *	110-54-3
Acute oral toxicity:	LD 50 Rat: 2,500 mg/kg
Acute inhalation toxicity:	LC 50 Rat: 48,000 ppm, 4 hours
Acute dermal toxicity:	LD 50 Rabbit: > 1,300 mg/kg

Routes of Entry:	Inhalation, skin absorption, skin contact
Acute Exposure Hazards:	
INHALATION HAZARD:	Inhalation of vapors irritates the respiratory tract. Overexposure may cause central nervous system depression with lightheadedness, nausea, headache, and blurred vision. Greater exposure may cause muscle weakness, numbness of the extremities, unconsciousness and suffocation. Vapors can displace oxygen, especially in confined spaces.
INGESTION HAZARD:	May produce gastrointestinal irritation with abdominal pain, nausea, vomiting, and diarrhea. Aspiration into lungs may cause chemical pneumonitis, which may be fatal. May cause central nervous system depression.
SKIN CONTACT HAZARD:	May cause redness, irritation, dryness, cracking, and pain. Defatting or dermatitis may result from prolonged or repeated exposure. Hexane may be absorbed through the skin with possible systemic effects. There are no reports of skin sensitization through occupational exposure. Sensitization was not observed in a maximization test using 25 volunteers.
EYE CONTACT HAZARD:	Vapors cause mild irritation. Splashes may cause redness and pain.
CHRONIC EXPOSURE HAZARDS:	Repeated or prolonged skin contact may defat the skin and produce irritation and dermatitis. Prolonged exposure may cause adverse reproductive effects and visual disturbances. Chronic inhalation may cause peripheral nerve disorders and central nervous system effects. Laboratory tests have resulted in mutagenic effects. May affect the developing fetus. Chronic exposure produces peripheral neuropathy with effects including muscular weakness, paresthesia, numbing of the hands, feet, legs, and arms, unsteadiness, and difficulty walking and standing. Repeated exposure may cause nervous system abnormalities with muscle weakness and damage, motor incoordination, and sensation disturbances. Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

12. ECOLOGICAL INFORMATION

ACETONE *	67-64-1
Acute and Prolonged Toxicity to Fish	96 h LC 50 Fathead minnow (<i>Pimephales promelas</i>), : 8,733 - 9,482 mg/l Mortality 96 h LC 50 Bluegill (<i>Lepomis macrochirus</i>), : 8,300 mg/l Mortality 96 h LC 50 Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>), : 4,740 - 6,330 mg/l Mortality
Acute Toxicity to Aquatic Invertebrates	No data
Environmental fate and pathways	No data
ALIPHATIC HYDROCARBON *	110-54-3
Ecotoxicity:	Experimental studies involving Hexane show acute aquatic toxicity values of 2.1 mg/L and greater than 1000 mg/L.
Environmental Fate:	Persistence: Volatilization from soil surfaces is expected to be an important fate process. Hexane will be degraded in the atmosphere by reaction with hydroxyl radicals; the half-life of this reaction in air is estimated to be three days. Screening studies suggest that Hexane will

undergo biodegradation in soil and water surfaces, but volatilization is expected to be the predominant fate process in the environment. Hydrolysis is not expected to be an important environmental fate process. Bioaccumulation: An estimated bioconcentration factor (BCF) of 2300 and log Kow of 3.9 for Hexane suggest the potential for bioconcentration in aquatic organisms is high. Metabolites may partially bioaccumulate in the lipid bilayer of fish tissues. Mobility: Hexane is highly volatile and will partition rapidly in the air. When released into water, Hexane will be lost by volatilization and biodegradation. Hexane is expected to have high mobility in soils/sediments based on a Koc of 150. Volatilization from moist soil surfaces is expected to be an important fate process based on a Henry's law constant of 1.83 atm-m³/mole. Hexane may volatilize from dry surfaces based on its vapor pressure.

If applicable, IARL, NPT and OSHA carcinogens and chemicals subject to the reporting requirements of SARA Title III, Section 313 are identified in Section III with an "***". Additional ecological information is Not Determined.

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local regulations.

WASTE DISPOSAL METHOD: Consult local authorities for proper waste disposal procedures. Empty de-pressurized containers can not be reused. Cans which are pressurized or contain liquid must be disposed of in a permitted waste management facility. Consult Federal, State, and local disposal authorities for approved procedures.

14. TRANSPORT INFORMATION

DOT Proper Shipping Name: UN1950
Aerosols, flammable, (each not exceeding 1L capacity) 2.1, LIMITED QUANTITY

15. REGULATORY INFORMATION

	CAS#	PEL	TLV
HYDROCARBON PROPELLANT	68476-86-8	NO DATA	NO DATA
ACETONE *	67-64-1	TWA 1000 PPM	TWA 750 PPM STEL 1000 PPM
HYDROTREATED LIGHT DISTILLATE	64742-47-8	NONE ESTABLISHED BY OSHA	NONE ESTABLISHED BY OSHA
HIGHLY REFINED BASE OIL	64742-65-0	NO LIMIT	NO LIMIT
ALIPHATIC HYDROCARBON *	110-54-3	500 PPM	50 PPM

16. OTHER INFORMATION

If applicable, IARL, NPT and OSHA carcinogens and chemicals subject to the reporting requirements of SARA Title III, Section 313 are identified above with an "***"

Consumer Product Safety Act Certification.

This product was evaluated by Frontier Performance Lubricants and is certified to be in compliance with the provisions of the Consumer Product Safety Act, the Federal Hazardous Substances Act, and the Poison Prevention Packaging Act, as applicable. This product was manufactured at the location identified on the SDS. The date of manufacture is stamped on the product container. No testing is required to certify compliance with the above mentioned regulation.

Issue Date	8/10/15
Revision Date	8/10/15
Revision Note	Not applicable

Disclaimer

The information provided in this Material 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.

End of Safety Data Sheet