

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Action Grease

Other means of identification

Product Code 5001

Recommended use of the chemical and restrictions on use

Recommended use High Pressure, Non-Melt Red Grease
Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet

Company Name Blue Cardinal Chemical, LLC
3670 Scarlet Oak Blvd.
St. Louis, MO 63122
800-325-3312

Emergency telephone number

Emergency Telephone CHEMTEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

Flammable Aerosol	Category 1
Liquefied Gas	
Skin Irritant	Category 2
Eye Irritant	Category 2b
Carcinogenicity	Category 2
Specific Target Organ Toxicity (Single Exposure)	Category 3
Aspiration Hazard	Category 1

Label elements**Emergency Overview****DANGER****Hazard statements**

Extremely Flammable Aerosol Contains gas under pressure: May explode if heated. Causes skin and eye irritation. Suspected of causing cancer. May cause drowsiness and dizziness. May be fatal if swallowed and enters airways.



Appearance: Red

Physical state: Viscous Spray

Odor: Petroleum odor



Precautionary Statements - Prevention

Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place. Wash hands thoroughly after handling. Wear protective gloves. Avoid breathing fumes, vapors, and spray.

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF EYE IRRITATION PERSISTS: Get medical attention. IF SWALLOWED: Immediately call a poison center or doctor. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. If exposed or concerned: Get medical advice or attention.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, state, and national regulations.

Hazards not otherwise classified (HNOC)

N/A

Unknown Acute Toxicity

28 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
Heptane	142-82-5	10-30%	*
Hydrotreated Heavy Naphthenic Petroleum Distillate	64742-52-5	15-40%	*
Propane/n-Butane	68476-86-8	10-30%	*
Tetrachloroethylene	127-18-4	10-30%	*

***The exact percentage (concentration) of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

First aid measures

Skin Contact

Wash with plenty of water. If skin irritation occurs: get medical attention.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Inhalation

Move to fresh air. If breathing is difficult or unconscious, administer oxygen. If not breathing administer artificial respiration. Seek medical attention if irritation persists.

Ingestion

Seek medical attention immediately, rinse mouth out with water, drink 2 glasses of water, and induce vomitin immediately as directed by medical personnel.

Most important symptoms and effect, both acute and delayed**Symptoms**

Eyes: redness, tearing, blurred vision
Skin: defatting and dermatitis
Inhalation: Anesthetic, irritation, Central Nervous System depression
Oral: abdominal irritation, nausea, vomiting, diarrhea, aspiration risk

CHRONIC HEALTH HAZARDS

Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system.

Indication of any immediate medical attention and special treatment needed**Note to physicians**

Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. This product contains ingredients that may be anticipated to be a carcinogen.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Dry chemical, foam, or Carbon Dioxide (CO2).

Unsuitable extinguishing media: Water spray/stream.

Specific hazards arising from the chemical

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

Protective equipment and precautions for firefighters

Wear full protective clothing and NIOSH approved SCBA with full face piece operated in positive pressure or pressure demand. Use water mist to keep material cool in fire situations.

Hazardous Combustion Products

Oxides of carbon, hydrogen chloride gas, and Phosgene under forced combustion.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal precautions**

Refer to section VIII for proper Personal Protective Equipment.

Methods and material for containment and cleaning up**Methods for containment & cleaning up**

Remove sources of ignition such as pilot lights. Material is heavier than air and can settle in low lying areas in flammable concentrations, ventilate area. Product will undergo rapid evaporation. Use absorbent on spill sweep to clean. Small releases may be wiped up with wiping material. Dispose in accordance with local, state and federal laws. Dispose of in accordance with federal, state, and local regulations.

RCRA Status

Waste solvent likely considered U210 (Tetrachloroethylene) under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Pressurized container: Do not pierce or burn, even after use.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store locked up. Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.

Incompatible materials

Strong acids, strong alkalis, strong oxidizing agents, chemically active metals, such as aluminum, barium, lithium, sodium, magnesium, potassium, titanium, beryllium, concentrated nitric acid some plastics, rubbers, and coatings.

Other Precautions

Use gloves, lab coat or apron, splash goggles, and use a vapor respirator approved/certified respirator or equivalent when ventilation is not adequate.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

CHEMICAL NAME	ACGIH TLV	OSHA PEL
Heptane	400 ppm	500 ppm
Hydrotreated Heavy Naphthenic Petroleum Distillate	5 mg/m ³	5 mg/m ³
Propane/n-Butane	1000 ppm	1000 ppm
Tetrachloroethylene	25 ppm	25 ppm

Appropriate engineering controls

Engineering Controls

Use only outdoors or in a well-ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses

Skin and body protection

Chemical resistant gloves

Respiratory protection

If exposure levels are exceeded then organic vapor cartridge respirator or SCBA will be needed.

Additional Measures

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Viscous Spray
Appearance	Red Viscous Spray
Color	Red
Odor	Petroleum odor
Odor threshold	N/D

<u>Property</u>	<u>Values</u>
pH	N/A
Specific Gravity	0.93
Viscosity	N/D
Melting point/freezing point	N/D
Flash point	N/D
Boiling point / boiling range	N/D
Evaporation rate	N/D
Flammability (solid, gas)	Extremely Flammable Aerosol
Flammability Limits in Air	
Upper flammability limit:	N/D
Lower flammability limit:	N/D
Vapor pressure	N/A
Vapor density	N/A
Water solubility	0%
Partition coefficient	N/D
Autoignition temperature	N/D
Decomposition temperature	N/D
Solids	28%
Volatility in Water	70.5%
Dielectric strength	N/D

Other Information

Density Lbs/Gal	
VOC Content (%)	48%

10. STABILITY AND REACTIVITY**Reactivity**

Chemically active metals and bases.

Chemical stability

Stable

Possibility of Hazardous Reactions

None Known

Conditions to avoid

Temperatures greater than 122°F and sources of ignition.

Incompatible materials

Strong acids, strong alkalis, strong oxidizing agents, chemically active metals, such as aluminum, barium, lithium, sodium, magnesium, potassium, titanium, beryllium, concentrated nitric acid some plastics, rubbers, and coatings.

Hazardous Decomposition Products

Oxides of carbon, Hydrogen Chloride gas, and Phosgene.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information****Inhalation**

Irritation to respiratory tract, dizziness, headache, nausea, depression of central nervous system, prolonged exposure may cause unconsciousness, heart effects, liver effects, kidney effects, and death.

Eye contact	Strong Irritation likely, redness, visual disturbance, and pain. May cause eye damage
Skin Contact	Irritation likely, redness and pain. May cause localized defatting, blistering with prolonged skin contact. May be absorbed through the skin.
Ingestion	Nausea, vomiting, headaches, abdominal pain, diarrhea, dizziness, tremor, drowsiness, pulmonary edemas, absorption through the gastrointestinal tract may produce symptoms of CNS depression ranging from unconsciousness to death.

Toxicological Information **Tetrachloroethylene** (127-18-4) LD50 (Oral, Rat) 2629 mg/kg; LD50 (Dermal, Rabbit) > 3228 mg/kg; LD50 (IPR, Mouse) 4700 mg/kg; LC50 (Inhalation, Mouse, 4hr) 5200 ppm; LC50 (Inhalation, Rat, 8hr) 34200 mg/m³

Medical Condition Aggravated Excessive exposure will aggravate pre-existing disorders of eyes, skin, respiratory, liver, kidney, cardiovascular system, pulmonary illnesses, or central nervous system.

Information on toxicological effects

Symptoms **Skin:** defatting and dermatitis
Inhalation: Anesthetic, irritation, Central Nervous System depression
Oral: abdominal irritation, nausea, vomiting, diarrhea, aspiration risk

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity **OSHA:** Yes **ACGIH:** A3 - Animal Carcinogen **NTP:** 2 - Anticipated
IARC: 2A - Probable **OTHER:** CA Prop 65

Chronic Health Hazards Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system.

12. ECOLOGICAL INFORMATION

Ecological Information

Tetrachloroethylene - 127-18-4 - Ecotoxicity in water (LC50): 18.4 mg/l 96 hours [Fish (Fathead Minnow)]. 18 mg/l 48 hours [Daphnia (daphnia)]. 5 mg/l 96 hours [Fish (Rainbow Trout)]. 13 mg/l 96 hours [Fish (Bluegill sunfish)].

Bioaccumulation

This product is not expected to bioaccumulate.

Biodegradability

Component or components of this product are not biodegradable.

Soil Mobility

This product is mobile in soil.

Other Ecological Hazards

This material is toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Dispose of in accordance with federal, state, and local regulations.

RCRA Status Waste solvent likely considered U210 (Tetrachloroethylene) under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT

UN/ID No.	UN 1950
Proper shipping name	Aerosols, Ltd. Qty.
Hazard Class	2.1 (6.1)
Packing Group	N/A

AIR SHIPMENT

UN/ID No.	N/A
Proper shipping name	Forbidden by USDOT Regulations
Hazard Class	N/A

SHIPPING BY WATER

UN/ID No.	UN 1950
Proper shipping name	Aerosols, Ltd. Qty.
Hazard Class	2.1 (6.1)
Packing Group	N/A
Environmental Hazards Water	Marine Pollutant

15. REGULATORY INFORMATION**International Inventories**

TSCA All Chemicals are listed or exempt.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations**SARA 313**

Tetrachloroethylene (127-18-4)

SARA 311/312 Hazard Categories

- Acute health hazard
- Chronic Health Hazard
- Flammable
- Carcinogen

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT)

Tetrachloroethylene (127-18-4)

Reportable Quantity = 100 lbs

US State Regulations**California Proposition 65**

This product contains chemicals known to the state of California to cause cancer, or birth defects or other reproductive harm
Tetrachloroethylene is known to the state of California to cause cancer.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Tetrachloroethylene	Right To Know	Right To Know	Right To Know
Heptane	Right To Know	Right To Know	Right To Know

INTERNATIONAL REGULATIONS: All components of this product are on the Canadian DSL list.

<u>NFPA</u>	Health hazards	2	Flammability	3	Reactivity	0	Other	None
<u>HMS</u>	Health hazards	2	Flammability	3	Reactivity	0	Protection	B

16. OTHER INFORMATION

Issue Date 01/06/2014
Revision Date 11/24/2014
Revision Note

N/A = Not Applicable; N/D = Not Determined

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.

End of Safety Data Sheet