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Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name I.D. RED (LIQUID)
Product use Fast Evaporating Industrial Degreaser
Product code 0570
Date of issue 02/12/14 **Supersedes** 04/14/11

Emergency Telephone Numbers

For MSDS Information:

Technical Services Group
Telephone (780) 453-8100
(Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency

CANUTEC (24 Hours)
(613) 996-6666 - Call Collect

Prepared By

Technical Services Group
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Section 2. Hazards Identification

Emergency overview

DANGER !

EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE.
VAPOR MAY CAUSE FLASH FIRE.

Keep away from heat, sparks and flame. Do not breathe vapor or mist. Avoid contact with skin and clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Absorbed through skin. Inhalation.

Eyes

May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin

May cause skin irritation. Skin inflammation is characterized by itching, scaling, or reddening. Defatting properties, may aggravate an existing dermatitis. permeator.

Inhalation

Harmful by inhalation. Over-exposure by inhalation may cause respiratory irritation. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Medical conditions aggravated by over-exposure Respiratory

Ingestion

Aspiration hazard if swallowed. Can enter lungs and cause damage. Vomiting increases risk of chemical pneumonia or pulmonary edema caused by aspiration of hydrocarbon solvents.

Chronic effects

Contains material which may cause damage to the following organs: kidneys, lungs, liver, heart, brain, peripheral nervous system, eyes, central nervous system (CNS), ears, pancreas.
Prolonged skin contact may cause dermatitis with drying and cracking of skin. Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

HEPTANE; n-heptane
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol
METHANOL; methyl alcohol; wood alcohol; columbia spirits

CAS number

142-82-5
67-63-0
67-56-1

% by Weight

60 - 100
7 - 13
1 - 5

Section 4. First Aid Measures

Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Skin Contact	Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.
Ingestion	Aspiration hazard if swallowed. Can enter lungs and cause damage. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.

Section 5. Fire Fighting Measures

Flash Point	Closed cup: <-18°C (<0°F) (Tagliabue.)
Flammable Limits	Lower: 1.2% Upper: 6.7%
Flammability	Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidizing materials.
Auto-ignition Temperature	
Fire-Fighting Procedures	Use dry chemical or CO ₂ . Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Fire hazard	Extremely flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Products of Combustion	carbon oxides (CO, CO ₂) and other unidentified organic compounds
Explosion hazard	Not available.

Section 6. Accidental Release Measures

Spill Clean up	Eliminate all ignition sources. Put on appropriate personal protective equipment (see Section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. To clean the floor and all objects contaminated by this material, use detergent solution. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
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Section 7. Handling and Storage

Handling	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Do not reuse container. Wash thoroughly after handling.
Storage	Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Keep out of the reach of children. Avoid all possible sources of ignition (spark or flame).

Section 8. Exposure Controls/Personal Protection**Product name****Exposure limits**

No exposure limit value known.

Personal Protective Equipment (PPE)**Eyes**

Recommended: splash goggles

**Hands and Body**Recommended: Chemical-resistant gloves. Nitrile Neoprene
Viton® Synthetic apron.**Respiratory**

Recommended: Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with organic vapor cartridge.

Section 9. Physical and Chemical Properties**Physical State**

Liquid.

Color Clear**pH**

Not available.

Odor Hydrocarbon. [Slight]**Boiling Point**

64°C (147.2°F)

Vapor Pressure 17.9 kPa (134 mm Hg)**Specific Gravity**

0.75 (Water = 1)

Vapor Density 3 [Air = 1]**Solubility**

Insoluble in the following materials: cold water and hot water.

Evaporation Rate 8 (butyl acetate = 1)**Freezing Point****VOC (Consumer)** 100% 6.25 (lb/gal) 749 (g/l)**Section 10. Stability and Reactivity****Stability and Reactivity**

The product is stable.

Incompatibility

Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information**Carcinogenicity**

Not available.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
heptane	LC50 Inhalation Gas.	Mouse	18295 ppm	2 hours
	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	103 g/m ³	4 hours
	LD50 Oral	Mouse	15000 mg/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	16000 ppm	4 hours
	LD50 Dermal	Rabbit	5030 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
	LD50 Oral	Rat	5628 mg/kg	-

Mutagenicity**Conclusion/Summary**

: Not available.

Teratogenicity**Conclusion/Summary**

: Not available.

Reproductive toxicity**Conclusion/Summary**

: Not available.

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.
Aquatic Ecotoxicity


Not available.

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: D001
Classification: - [Hazardous waste.]
Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	UN1993	FLAMMABLE LIQUIDS, N. O.S. (Heptane, Isopropyl Alcohol)	3	II		<u>Explosive Limit and Limited Quantity Index</u> 1
IMDG Class						-

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information**Canada**

WHMIS (Canada) Class B-2: Flammable liquid
Class D-1B: Material causing immediate and serious toxic effects (Toxic).

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

Section 16. Other Information

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*