

Supercodes Date Not applicable

Material Safety Data Sheet: PREMALUBE RED (VOC)

Issuing Date 10/18/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name PREMALUBE RED (VOC)
Recommended use Lubricant
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 5504
Chemical Nature Petroleum distillates
Emergency Telephone Number
CHEMTREC ® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER

Extremely flammable

May be harmful if inhaled

Causes skin irritation

Causes eye irritation

May be harmful if swallowed

Contents under pressure

Color red

Physical State Liquid

Odor Petroleum distillates

Potential Health Effects

Principle Route of Exposure

Primary Routes of Entry

Acute Effects

Eyes

Skin

Inhalation

Ingestion

Chronic toxicity

Target Organ Effects

Aggravated Medical Conditions

Potential Environmental Effects

Eye contact, Skin contact, Inhalation.

Inhalation, Skin Absorption.

Causes eye irritation.

Causes skin irritation. May be absorbed through the skin in harmful amounts. Repeated exposure may cause skin dryness or cracking. May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Irregular cardiac activity.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Repeated and prolonged exposure to solvents may cause brain and nervous system damage. May cause irregular heartbeats, especially under conditions of stress. Liver and kidney injuries may occur. Contains a known or suspected reproductive toxin. Central nervous system, Peripheral Nervous System (PNS), Skin, Eyes, Respiratory system, Liver, Kidney, Heart, Testes.

Neurological disorders, Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Heart disease.

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Butane	106-97-8
Hexane	110-54-3
Cyclohexane	110-82-7
Heptane (n-)	142-82-5
Naphtha, petroleum, hydrotreated light	64742-49-0
Solvent naphtha (petroleum), light aliphatic	64742-89-8
Propane	74-98-6
Methyl acetate	79-20-9
White mineral oil, solvent refined	8042-47-5
Aluminum benzoate fatty acid complex	82980-54-9
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	64742-52-5

4. FIRST AID MEASURES

General Advice

Eye Contact

Skin Contact

Inhalation

Ingestion

Notes to Physician

Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

Wipe up with absorbent material (e.g. cloth, fleece). Wash off with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur.

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 73°F/23°C

Autoignition Temperature No information available.

Flammability Limits in Air % Mixture.

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray.

Specific hazards arising from the chemical

Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions. Flame extension: >30 inches / >76 cm and Burnback: 3 inches / 7.6 cm.

Protective Equipment and Precautions for Firefighters

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

Method

Seta closed cup

Upper 16

Lower 0.7

Aerosol Level (NFPA 30B) -

3

NFPA

Health 1

Flammability 4

Instability 0

HMIS

Health 1

Flammability 4

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

Methods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning Up

Pick up and transfer to properly labeled containers.

Neutralizing Agent

Not applicable.

7. HANDLING AND STORAGE

Handling

Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Keep in a dry, cool and well-ventilated place.

Storage Temperature

Minimum 35°F/2°C

Maximum 120 °F/49°C

Storage Conditions

Indoor

X

Outdoor

Heated

Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Butane	1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-C4) : 1000 ppm TWA	No data available	800 ppm TWA; 1900 mg/m ³ TWA
Hexane	Skin : 1000 ppm STEL (other than n-Hexane) : 50 ppm TWA : 500 ppm TWA (other than n-Hexane)	500 ppm TWA; 1800 mg/m ³ TWA	1100 ppm IDLH (10% LEL) : 50 ppm TWA; 180 mg/m ³ TWA : 100 ppm TWA (other than n-Hexane); 350 mg/m ³ TWA (other than n-Hexane) : 510 ppm Ceiling (other than n-hexane, 15 min); 1800 mg/m ³ Ceiling (other than n-hexane, 15 min)
Cyclohexane	100 ppm TWA	300 ppm TWA; 1050 mg/m ³ TWA	1300 ppm IDLH (10% LEL) : 300 ppm TWA; 1050 mg/m ³ TWA
Heptane (n-)	500 ppm STEL (listed under Heptane, all isomers) : 500 ppm STEL : 400 ppm TWA : 400 ppm TWA (listed under Heptane, all isomers)	500 ppm TWA; 2000 mg/m ³ TWA	750 ppm IDLH : 85 ppm TWA; 350 mg/m ³ TWA : 440 ppm Ceiling (15 min); 1800 mg/m ³ Ceiling (15 min)
Naphtha, petroleum, hydrotreated light	No data available	No data available	No data available
Solvent naphtha (petroleum), light aliphatic	No data available	No data available	No data available
Propane	1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-C4) : 1000 ppm TWA	1000 ppm TWA; 1800 mg/m ³ TWA	2100 ppm IDLH (10% LEL) : 1000 ppm TWA; 1800 mg/m ³ TWA
Methyl acetate	250 ppm STEL : 200 ppm TWA	200 ppm TWA; 610 mg/m ³ TWA	3100 ppm IDLH (10% LEL) : 200 ppm TWA; 610 mg/m ³ TWA 250 ppm STEL; 760 mg/m ³ STEL
White mineral oil, solvent refined	5 mg/m ³	5 mg/m ³	IDLH 2500 mg/m ³ STEL 10 mg/m ³
Aluminum benzoate fatty acid complex	No data available	No data available	No data available
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	TWA: 5 mg/m ³ ; STEL: 10 mg/m ³	TWA: 5 mg/m ³	IDLH: 2,500 mg/m ³ ; STEL 10 mg/m ³ ; TWA: 5 mg/m ³

Engineering Measures

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin Protection

Wear suitable protective clothing, Impervious gloves.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use. When using, do not eat, drink, or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Viscous
Color	red	Odor	Petroleum distillates
Appearance	Opaque	pH	Not applicable
Specific Gravity	0.746	Evaporation Rate	41 (Butyl acetate=1)
Percent Volatile (Volume)	65.9	VOC Content (%)	49.1
POC Content (g/L)	366	Vapor Pressure	2088 mmHg @ 70°F
Vapor Density	1.7 (Air = 1.0)	Solubility	Negligible
Boiling Point/Range	154°F/68°C		

10. STABILITY AND REACTIVITY

Chemical Stability

Stable. Hazardous polymerization does not occur.

Conditions to Avoid

Keep away from open flames, hot surfaces, and sources of ignition

Incompatible Products

Strong oxidizing agents, Reducing agents, Acids, Bases.

Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Aldehydes, Ammonia, Amines, Organic acids, Hydrocarbons, Smoke.

Possibility of Hazardous Reactions

None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Butane	no data available	no data available	= 656 mg/L (Rat) 4 h	no data available	no data available
Hexane	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h	no data available	no data available
Cyclohexane	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 13.9 mg/L (Rat) 4 h	no data available	no data available
Heptane (n-)	no data available	= 3000 mg/kg (Rabbit)	= 103 g/m ³ (Rat) 4 h	no data available	no data available
Naphtha, petroleum, hydrotreated light	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 73680 ppm (Rat) 4 h	no data available	no data available
Solvent naphtha (petroleum), light aliphatic	no data available	= 3000 mg/kg (Rabbit)	no data available	no data available	no data available
Propane	no data available	no data available	= 658 mg/L (Rat) 4 h	no data available	no data available
Methyl acetate	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat) > 5000 mg/kg (Rabbit)	= 16000 ppm (Rat) 4 h	no data available	no data available
White mineral oil, solvent refined	> 5000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Aluminum benzoate fatty acid complex	no data available	no data available	no data available	no data available	no data available
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h	no data available	no data available

Chronic toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Butane	no data available	no data available	no data available	no data available	CNS
Hexane	no data available	no data available	no data available	X	eyes, CNS, respiratory system, skin, PNS eyes, CNS, respiratory system, skin (other than n-hexane)
Cyclohexane	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin
Heptane (n-)	no data available	no data available	no data available	no data available	skin, CNS, respiratory system
Naphtha, petroleum, hydrotreated light	no data available	no data available	no data available	no data available	no data available
Solvent naphtha (petroleum), light aliphatic	no data available	no data available	no data available	no data available	no data available
Propane	no data available	no data available	no data available	no data available	CNS
Methyl acetate	no data available	no data available	no data available	no data available	eyes, CNS, liver, kidney, respiratory system, skin
White mineral oil, solvent refined	no data available	no data available	no data available	no data available	respiratory system
Aluminum benzoate fatty acid complex	no data available	no data available	no data available	no data available	no data available
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	no data available	no data available	no data available	respiratory system

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	ACGIH	IARC	NTP	OSHA	Other
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Hexane	not applicable	not applicable	not applicable	not applicable	not applicable
Cyclohexane	not applicable	not applicable	not applicable	not applicable	not applicable
Heptane (n-)	not applicable	not applicable	not applicable	not applicable	not applicable
Naphtha, petroleum, hydrotreated light	not applicable	not applicable	not applicable	not applicable	not applicable
Solvent naphtha (petroleum), light aliphatic	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Methyl acetate	not applicable	not applicable	not applicable	not applicable	not applicable
White mineral oil, solvent refined	not applicable	not applicable	not applicable	not applicable	not applicable
Aluminum benzoate fatty acid complex	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Butane	no data available	no data available	no data available	no data available	2.09
Hexane	no data available	2.1-2.98 mg/L Pimephales promelas 96 h	no data available	> 1000 mg/L 24 h	N/A
Cyclohexane	> 500 mg/L Desmodesmus subspicatus 72 h	23.03-42.07 mg/L Pimephales promelas 96 h 3.96-5.18 mg/L Pimephales promelas 96 h 48.87-68.76 mg/L Poecilia reticulata 96 h 24.99-44.69 mg/L Lepomis macrochirus 96 h	EC50 = 85.5 mg/L 5 min EC50 = 93 mg/L 10 min	> 400 mg/L 24 h	3.44
Heptane (n-)	no data available	= 375.0 mg/L Cichlid fish 96 h	no data available	> 10 mg/L 24 h	4.66
Naphtha, petroleum, hydrotreated light	no data available	no data available	no data available	= 2.6 mg/L 96 h	N/A
Solvent naphtha (petroleum), light aliphatic	= 4700 mg/L Pseudokirchneriella subcapitata 72 h	no data available	no data available	no data available	N/A
Propane	no data available	no data available	no data available	no data available	2.8
Methyl acetate	> 120 mg/L Desmodesmus subspicatus 72 h	250-350 mg/L Brachydanio rerio 96 h 295-348 mg/L Pimephales promelas 96 h	EC50 = 6000 mg/L 16 h EC50 = 6100 mg/L 30 min	= 1026.7 mg/L 48 h	0.18
White mineral oil, solvent refined	no data available	> 10000 mg/L Lepomis macrochirus 96 h	no data available	no data available	6
Aluminum benzoate fatty acid complex	no data available	no data available	no data available	no data available	N/A
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	> 5000 mg/L Oncorhynchus mykiss 96 h	no data available	> 1000 mg/L 48 h	N/A

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of in accordance with local regulations.
Container Disposal	Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT	Proper Shipping Name	Consumer commodity
	Hazard Class	ORM-D
	Description	Consumer commodity,ORM-D
TDG	Proper shipping name	Aerosols
	Hazard Class	2.1
	UN-No	UN1950
	Description	AEROSOLS,2.1,UN1950,LTD QTY
ICAO	UN-No	UN1950
	Proper Shipping Name	Aerosols
	Hazard Class	2.1
	Shipping Description	Aerosols,UN1950,LTD QTY
IATA	UN-No	UN1950
	Proper Shipping Name	Aerosols, flammable
	Hazard Class	2.1
	ERG Code	10L
	Shipping Description	UN1950,Aerosols, flammable,2.1, LTD QTY
IMDG/IMO	Proper Shipping Name	Aerosols
	Hazard Class	2
	UN-No	UN1950
	EmS No.	F-D, S-U
	Shipping Description	UN1950, Aerosols,2,LTD QTY

15. REGULATORY INFORMATION

Inventory	
TSCA	Complies
DSL	Complies

J.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Hexane	110-54-3	5-10	1.0 % de minimis concentration
Cyclohexane	110-82-7	1-5	1.0 % de minimis concentration

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	Yes	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Bulane	Not applicable	Not applicable
Hexane	Not applicable	Not applicable
Cyclohexane	Not applicable	Not applicable
Heptane (n-)	Not applicable	Not applicable
Naphtha, petroleum, hydrotreated light	Not applicable	Not applicable
Solvent naphtha (petroleum), light aliphatic	Not applicable	Not applicable
Propane	Not applicable	Not applicable
Methyl acetate	Not applicable	Not applicable
White mineral oil, solvent refined	Not applicable	Not applicable
Aluminum benzoate fatty acid complex	Not applicable	Not applicable
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	Not applicable	Not applicable

Canada

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

CPR.

WHMIS Hazard Class

A Compressed gases, B5 Flammable aerosol, D2A Very toxic materials, D2B Toxic materials.



16. OTHER INFORMATION

Prepared By	Mike McDowell
Supersedes Date	Not applicable
Issuing Date	10/18/2010
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

CERTIFIED LABS, DIV. OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.