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Supersedes Date 06/27/2006

Material Safety Data Sheet: CHAIN-PRO AEROSOL

Issuing Date 04/24/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHAIN-PRO AEROSOL
Recommended Use Lubricant
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 5581
Chemical Nature Petroleum distillates
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Danger

Extremely flammable
May be harmful if inhaled
May cause skin irritation
May cause eye irritation
Contents under pressure

Color Pale Amber - Light yellow

Potential Health Effects

Principle Route of Exposure

Primary Routes of Entry

Acute Effects

Eyes

Skin

Inhalation

Ingestion

Chronic Effects

Target Organ Effects

Aggravated Medical Conditions

Potential Environmental Effects

Physical State Aerosol

Odor Petroleum distillates

Inhalation, Skin contact, Eye contact.

None known.

May cause eye irritation.

May cause skin irritation.

May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

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

Liver and kidney injuries may occur.

Central nervous system, Liver, Respiratory system, Eyes, Skin, Heart, Kidney.

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

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Butane	106-97-8
Chlorinated Paraffin	63449-39-8
Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable)	64741-88-4
Propane	74-98-6
White mineral oil, solvent refined	8042-47-5

4. FIRST AID MEASURES

General Advice

Eye Contact

Skin Contact

Inhalation

Ingestion

Notes to Physician

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

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

Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

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 410°F / 210°C

Autoignition Temperature No information available.

Flammability Limits in Air % Mixture.

Suitable Extinguishing Media

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

Specific Hazards Arising from the Chemical

Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Flame extension: >18 inches / >46 cm and Burnback: 0 inches / 0 cm. Material can create slippery conditions.

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.

Aerosol Level (NFPA 30B) -

3

NFPA Health 1

Flammability 4

Instability 0

HMIS Health 1

Flammability 4

Instability 0

Method

Tag closed cup

Upper 9.5

Lower 0.9

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Environmental Precautions

Methods for Containment

Methods for Cleaning Up

Neutralizing Agent

Wear protective gloves/clothing. Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system.

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).

Pick up and transfer to properly labeled containers.

Not applicable.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mist or gas.			
Storage	Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children.			
Storage Temperature	Minimum	35°F / 2°C	Maximum	120 °F / 49°C
Storage Conditions	Indoor	X	Outdoor	X
			Heated	Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Butane	TWA: 1000 ppm	No data available	TWA: 1900 mg/m ³ TWA: 800 ppm
Chlorinated Paraffin	No data available	No data available	No data available
Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable)	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³	IDLH: 2500 mg/m ³ STEL: 10 mg/m ³ TWA: 5 mg/m ³
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³
White mineral oil, solvent refined	5 mg/m ³	5 mg/m ³	IDLH 2500 mg/m ³ STEL 10 mg/m ³

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin Protection

For prolonged or repeated contact, use protective gloves.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations

Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Aerosol	Viscosity	Slight Viscous
Color	Pale Amber - Light yellow	Odor	Petroleum distillates
Appearance	Hazy	pH	Not applicable
Specific Gravity	0.827	Evaporation Rate	24.6 (Butyl acetate=1)
Percent Volatile (Volume)	17.1	VOC Content (%)	10.1
Vapor Pressure	1843 mmHg @ 70 °F	Vapor Density	1.7 (Air = 1.0)
Solubility	Negligible	Boiling Point/Range	610°F / 321°C

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions

Conditions to Avoid

Heat, flames, and sparks.

Incompatible Products

Strong oxidizing agents, Reducing agents.

Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Aldehydes, Hydrogen chloride gas.

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	658 mg/L (Rat) 4 h	no data available	no data available
Chlorinated Paraffin	26100 mg/kg (Rat)	10 mL/kg (Rabbit)	no data available	no data available	no data available
Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable)	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	2.18 mg/L (Rat) 4 h	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
White mineral oil, solvent refined	5000 mg/kg (Rat)	no data available	no data available	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, liver, heart
Chlorinated Paraffin	no data available	no data available	no data available	no data available	liver, kidney, thyroid
Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable)	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, liver, heart
White mineral oil, solvent refined	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Chlorinated Paraffin	not applicable	Group 2B	not applicable	X	not applicable
Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable)	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	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

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	2.89
Chlorinated Paraffin	no data available	LC50= 520 mg/L Oncorhynchus mykiss 96 h LC50> 300 mg/L Lepomis macrochirus 96 h	no data available	no data available	N/A
Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable)	no data available	LC50> 5000 mg/L Oncorhynchus mykiss 96 h	no data available	EC50 > 1000 mg/L 48 h	N/A
Propane	no data available	no data available	no data available	no data available	2.3
White mineral oil, solvent refined	no data available	LC50> 10000 mg/L Lepomis macrochirus 96 h	no data available	no data available	6

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
Hazard Class
Description

DOT

Consumer commodity
ORM-D
Consumer commodity,ORM-D

TDG

Proper shipping name
Hazard Class
UN-No
Description

Aerosols
2.1
UN1950
AEROSOLS,2.1,UN1950,LTD QTY

ICAO

UN-No
Proper Shipping Name
Hazard Class
Shipping Description

UN1950
Aerosols
2.1
Aerosols,UN1950,LTD QTY

IATA

UN-No
Proper Shipping Name
Hazard Class
ERG Code
Shipping Description

UN1950
Aerosols, flammable
2.1
10L
UN1950,Aerosols, flammable,2.1, LTD QTY

IMDG/MO

Proper Shipping Name
Hazard Class
UN-No
EmS No.
Shipping Description

Aerosols
2
UN1950
F-D, S-U
UN1950, Aerosols,2,LTD QTY

15. REGULATORY INFORMATION

Inventories

TSCA

Complies

DSL

Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

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
Butane	Not applicable	Not applicable
Chlorinated Paraffin	Not applicable	Not applicable
Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable)	Not applicable	Not applicable
Propane	Not applicable	Not applicable
White mineral oil, solvent refined	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, D2B Toxic materials, B5 Flammable aerosol.

**16. OTHER INFORMATION**

Prepared By	Kristen Stansbury
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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