

CUSTOMER: 220668
BATCH #: 1734979
PICK ZONE: AER1
PRODUCT NAME: PENTRA-FOAM AEROSOL, MM

ORDER #: 1938048
DELIVERY ID: 12913715
PICK SEQUENCE #: 3300
BARCODE #: 12039404

Material Safety Data Sheet: PENTRA-FOAM AEROSOL, MM

Supersedes Date 05/03/2012

Issuing Date 10/10/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name PENTRA-FOAM AEROSOL, MM
Recommended use Lubricant
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 12039404
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

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

Inhalation, Skin contact, Eye contact.

Inhalation

May cause eye irritation.

May cause skin irritation.

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.

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

Prolonged or repeated inhalation may cause damage to the lungs.

Respiratory system, Central nervous system, Heart.

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

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
White mineral oil, solvent refined	8042-47-5
Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable)	64742-65-0
Residual oils (petroleum), solvent refined (<3% DMSO extractable)	64742-01-4
Residual oils (petroleum), solvent dewaxed (<3% DMSO extractable)	64742-62-7
Propane	74-98-6
Butane	106-97-8
Chlorinated paraffin (C14-17)	85535-85-9

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.

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 Method Tag closed cup
 Autoignition Temperature No information available.
 Flammability Limits in Air % Propellant Upper 9.5 Lower 1.9
 Suitable Extinguishing Media

Water spray, Carbon dioxide (CO2), Foam, Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Extremely flammable. 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 inch / 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

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 Use clean non-sparking tools to collect absorbed material. 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 heat and sources of ignition.
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
White mineral oil, solvent refined	5 mg/m ³	5 mg/m ³	IDLH 2500 mg/m ³ STEL 10 mg/m ³
Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable)	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³	No data available
Residual oils (petroleum), solvent refined (<3% DMSO extractable)	5 mg/m ³	5 mg/m ³	No data available
Residual oils (petroleum), solvent dewaxed (<3% DMSO extractable)	No data available	No data available	No data available
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m ³
Chlorinated paraffin (C14-17)	No data available	No data available	No data available

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment
Eye/Face Protection Safety glasses with side-shields.
Skin Protection For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid Viscosity Slight Viscous

Color	Pale Amber	Odor	Petroleum distillates
Appearance	Hazy - Cloudy	pH	Not applicable
Specific Gravity	0.827	Evaporation Rate	24.6 (Butyl acetate=1)
Percent Volatile (Volume)	17.1	VOC Content (%)	10.1
VOC Content (g/L)	84	Vapor Pressure	1,843 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	Keep away from open flames, hot surfaces, and sources of ignition
Incompatible Products	Strong oxidizing agents, Reducing agents, Molten alkali metals, Strong acids, Bases.
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Aldehydes, Hydrogen chloride gas, Hydrogen fluoride, Fluorocarbons, Oxides of phosphorus.
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
White mineral oil, solvent refined	> 5000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable)	no data available	no data available	no data available	no data available	no data available
Residual oils (petroleum), solvent refined (<3% DMSO extractable)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h	no data available	no data available
Residual oils (petroleum), solvent dewaxed (<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
Butane	no data available	no data available	= 658 g/m ³ (Rat) 4 h	no data available	no data available
Chlorinated paraffin (C14-17)	= 2000 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
White mineral oil, solvent refined	no data available	no data available	no data available	no data available	respiratory system
Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable)	no data available	no data available	no data available	no data available	lungs
Residual oils (petroleum), solvent refined (<3% DMSO extractable)	no data available	no data available	no data available	no data available	no data available
Residual oils (petroleum), solvent dewaxed (<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, heart
Butane	no data available	no data available	no data available	no data available	CNS, heart
Chlorinated paraffin (C14-17)	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
White mineral oil, solvent refined	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable)	not applicable	not applicable	not applicable	not applicable	not applicable
Residual oils (petroleum), solvent refined (<3% DMSO extractable)	not applicable	not applicable	not applicable	not applicable	not applicable
Residual oils (petroleum), solvent dewaxed (<3% DMSO extractable)	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Butane	not applicable	not applicable	not applicable	not applicable	not applicable

Chlorinated paraffin (C14-17)	not applicable	not applicable	not applicable	not applicable	not applicable
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12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
White mineral oil, solvent refined	no data available	LC50 > 10000 mg/L Lepomis macrochirus 96 h	no data available	no data available	>6
Petroleum distillates, solvent dewaxed 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
Residual oils (petroleum), solvent refined (<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
Residual oils (petroleum), solvent dewaxed (<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
Butane	no data available	no data available	no data available	no data available	2.89
Chlorinated paraffin (C14-17)	no data available	LC50 > 500 mg/L Leuciscus idus 48 h	no data available	no data available	5.5 - 6.0

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

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 and Title 40 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
White mineral oil, solvent refined	Not applicable	Not applicable
Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable)	Not applicable	Not applicable
Residual oils (petroleum), solvent refined (<3% DMSO extractable)	Not applicable	Not applicable
Residual oils (petroleum), solvent dewaxed (<3% DMSO extractable)	Not applicable	Not applicable
Propane	Not applicable	Not applicable
Butane	Not applicable	Not applicable
Chlorinated paraffin (C14-17)	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 Sarah Williamson
 Supersedes Date 05/03/2012
 Issuing Date 10/10/2013
 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

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