

Material Safety Data Sheet: NP-1 AEROSOL

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name NP-1 AEROSOL
Recommended use Lubricant
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 5607
Chemical nature Petroleum distillates mixture
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
Harmful or fatal if swallowed
Contents under pressure

Color Off-white

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

Skin contact, Eye contact, Inhalation.

Inhalation, Skin Absorption.

Causes eye irritation.

Causes skin irritation. May be absorbed through the skin in harmful amounts.

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.

Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

Prolonged or repeated inhalation may cause damage to the lungs. Prolonged skin contact may defat the skin and produce dermatitis. Suspect reproductive hazard - contains material which may injure unborn child. Kidney injury may occur.

Respiratory system, Central nervous system, Peripheral Nervous System (PNS), Ears, Skin, Eyes, Kidney, Heart.

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

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Methyl acetate	79-20-9
Hexane	110-54-3
Propane	74-98-6
Petrolatum	8009-03-8
Butane	106-97-8
3-methylpentane	96-14-0
Methylcyclopentane	96-37-7
2-Methylpentane	107-83-5

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.

Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. 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 immediately. Never give anything by mouth to an unconscious person. Rinse mouth.

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point	75 °F / 24 °C	Method	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air % Solvent mixture.		Upper 16	Lower 1.05
Suitable Extinguishing Media	Foam. Carbon dioxide (CO ₂). Dry chemical. Water spray. 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: 2 inch / 5 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 2	Flammability 4	Instability 0
HMIS	Health 2	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. Store in original container. 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
Methyl acetate	TWA: 200 ppm STEL: 250 ppm	TWA: 200 ppm TWA: 610 mg/m ³	IDLH: 3100 ppm STEL 250 ppm STEL 760 mg/m ³ TWA: 200 ppm TWA: 610 mg/m ³
Hexane	TWA: 50 ppm Skin	TWA: 500 ppm TWA: 1800 mg/m ³	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 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
Petrolatum	5 mg/m ³ as oil mist	10 mg/m ³ as oil mist	No data available
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m ³
3-methylpentane	No data available	No data available	No data available
Methylcyclopentane	No data available	No data available	No data available
2-Methylpentane	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	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations

General Hygiene Considerations

above the exposure limit they must use appropriate certified respirators.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Off-white	Odor	Petroleum distillates
Appearance	Cloudy	pH	Not applicable
Specific Gravity	0.731	Evaporation Rate	53.25 (Butyl acetate=1)
Percent Volatile (Volume)	90.6	VOC Content (%)	48.5
VOC Content (g/L)	355	Vapor Pressure	1891 mmHg @ 70°F
Vapor Density	1.7 (Air = 1.0)	Solubility	Negligible
Boiling Point/Range	134 °F / 57 °C		

10. STABILITY AND REACTIVITY**Chemical Stability**

Stable. Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flames, and sparks

Incompatible Products

Strong oxidizing agents, Reducing agents, Strong acids, Strong bases, Molten alkali metals.

Hazardous Decomposition Products

Carbon oxides, Hydrogen fluoride.

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
Methyl acetate	> 5000 mg/kg (Rat)	> 5 g/kg (Rabbit)	= 16000 ppm (Rat) 4 h	no data available	no data available
Hexane	no data available	= 3000 mg/kg (Rabbit)	= 48000 ppm (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
Petrolatum	no data available	= 3600 mg/kg (Rabbit)	no data available	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
3-methylpentane	no data available	no data available	no data available	no data available	no data available
Methylcyclopentane	no data available	no data available	no data available	no data available	no data available
2-Methylpentane	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Methyl acetate	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin
Hexane	no data available	no data available	no data available	yes	eyes, CNS, respiratory system, auditory system, skin, PNS, heart
Propane	no data available	no data available	no data available	no data available	CNS, heart
Petrolatum	no data available	no data available	no data available	no data available	no data available
Butane	no data available	no data available	no data available	no data available	CNS, heart
3-methylpentane	no data available	no data available	no data available	no data available	no data available
Methylcyclopentane	no data available	no data available	no data available	no data available	no data available
2-Methylpentane	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Methyl acetate	not applicable	not applicable	not applicable	not applicable	not applicable
Hexane	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Petrolatum	not applicable	not applicable	not applicable	not applicable	not applicable
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
3-methylpentane	not applicable	not applicable	not applicable	not applicable	not applicable
Methylcyclopentane	not applicable	not applicable	not applicable	not applicable	not applicable
2-Methylpentane	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information
Component Information

No information available.

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Methyl acetate	EC50 > 120 mg/L Desmodesmus subspicatus 72 h	LC50 295 - 348 mg/L Pimephales promelas 96 h LC50 250 - 350 mg/L Brachydanio rerio 96 h	EC50 = 6000 mg/L 16 h EC50 = 6100 mg/L 30 min	EC50= 1026.7 mg/L 48 h	0.18
Hexane	no data available	LC50 2.1 - 2.98 mg/L Pimephales promelas 96 h	no data available	EC50> 1000 mg/L 24 h	N/A
Propane	no data available	no data available	no data available	no data available	2.3
Petrolatum	no data available	no data available	no data available	no data available	N/A
Butane	no data available	no data available	no data available	no data available	2.89
3-methylpentane	no data available	no data available	no data available	no data available	N/A
Methylcyclopentane	no data available	no data available	no data available	no data available	N/A
2-Methylpentane	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability
Bioaccumulation
MobilityNo information available.
No information available.
No information available.**13. DISPOSAL CONSIDERATIONS****Product Disposal**
Container DisposalDispose of in accordance with local regulations.
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	Consumer Commodity
Hazard Class	ORM-D
Description	Consumer Commodity, ORM-D

ICAO

UN-No	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.1
Shipping Description	UN1950, AEROSOLS, 2.1, 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, FLAMMABLE, 2.1, (15°C c.c.), 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 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
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			Values
Hexane	110-54-3	5-10	1.0

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
Methyl acetate	Not applicable	Not applicable
Hexane	5000 lb	Not applicable
Propane	Not applicable	Not applicable
Petrolatum	Not applicable	Not applicable
Butane	Not applicable	Not applicable
3-methylpentane	Not applicable	Not applicable
Methylcyclopentane	Not applicable	Not applicable
2-Methylpentane	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 Devon Kebodeaux
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 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

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