

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SILA-CHEM AEROSOL
Recommended use Mold Release Agent
Information on Manufacturer
 CHEMSEARCH DIV. OF NCH CORP.
 BOX 152170
 IRVING, TX 75015

Product Code 5603
Chemical nature petroleum distillates Mixture
Emergency Telephone Number
 CHEMTREC 1-800-424-9300

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 Colorless **Physical State** Liquid **Odor** Solvent
Potential Health Effects
Principle Route of Exposure Skin contact, Eye contact, Inhalation.
Primary Routes of Entry Inhalation, Skin Absorption.
Acute Effects
Eyes Causes eye irritation.
Skin Causes skin irritation. May be absorbed through the skin in harmful amounts.
Inhalation 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. May cause cardiac arrhythmia.
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.
Chronic Toxicity 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.
Target Organ Effects Respiratory system, Central nervous system, Peripheral Nervous System (PNS), Ears, Skin, Eyes, Kidney, Heart.
Aggravated Medical Conditions Respiratory disorders, Skin disorders, Neurological disorders, Kidney disorders, Heart disease.
Potential Environmental Effects 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
Polydimethylsiloxane	63148-62-9
Naphtha, petroleum, hydrotreated light	64742-49-0
Solvent naphtha (petroleum), light aliphatic	64742-89-8
Propane	74-98-6

4. FIRST AID MEASURES

General Advice Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.
Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact 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.
Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to Physician Aspiration hazard if swallowed - can enter lungs and cause damage.

5. FIRE-FIGHTING MEASURES

Flash Point < 31 °F / < -1 °C **Method** Tag closed cup
Autoignition Temperature No information available.
Flammability Limits in Air % Solvent mixture. **Upper** 9.5 **Lower** 1
Suitable Extinguishing Media
 Foam. Carbon dioxide (CO2). 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: 30 inches / 76 cm and Burnback: 3 inches / 7.6 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
Butane	: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4) : 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)
Polydimethylsiloxane	No data available	No data available	No data available
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 C1-4) : 1000 ppm TWA	: 1000 ppm TWA; 1800 mg/m ³ TWA	: 2100 ppm IDLH (10% LEL) : 1000 ppm TWA; 1800 mg/m ³ TWA

Engineering Measures

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Colorless	Odor	Solvent
Appearance	Transparent	pH	Not applicable
Specific Gravity	0.588	Evaporation Rate	104.3 (Butyl acetate=1)
Percent Volatile (Volume)	97	VOC Content (%)	95
VOC Content (g/L)	559	Vapor Pressure	3323 mmHg @ 70°F
Vapor Density	1.9 (Air = 1.0)	Solubility	Negligible
Boiling Point/Range	143 °F / 62 °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

Hazardous Decomposition Products

Carbon oxides, Aldehydes.

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
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
Polydimethylsiloxane	17 g/kg (Rat)	2 g/kg (Rabbit)	no data available	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	-	658 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	yes	eyes, CNS, respiratory system, auditory system, skin, PNS, heart
Cyclohexane	no data available	no data available	no data available	no data available	eyes, CNS, kidneys, respiratory system, skin
Heptane (n-)	no data available	no data available	no data available	no data available	skin, CNS, respiratory system, heart
Polydimethylsiloxane	no data available	no data available	no data available	no data available	no data available
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

Carcinogenicity

There are no known carcinogenic chemicals in this product.

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
Polydimethylsiloxane	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

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
Hexane	no data available	LC50 2.1-2.98 mg/L Pimephales promelas 96 h	no data available	> 1000 mg/L 24 h	N/A
Cyclohexane	EC50 > 500 mg/L Desmodesmus subspicatus 72 h	LC50 23.03-42.07 mg/L Pimephales promelas 96 h LC50 24.99-44.69 mg/L Lepomis macrochirus 96 h LC50 3.96-5.18 mg/L Pimephales promelas 96 h LC50 48.87-68.76 mg/L Poecilia reticulata 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	LC50 = 375.0 mg/L Cichlid fish 96 h	no data available	> 10 mg/L 24 h	4.66
Polydimethylsiloxane	no data available	no data available	no data available	no data available	N/A
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	EC50 = 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

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	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

ATA

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 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.

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
Butane	Not applicable	Not applicable
Hexane	Not applicable	Not applicable
Cyclohexane	Not applicable	Not applicable
Heptane (n-)	Not applicable	Not applicable
Polydimethylsiloxane	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

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 Dan Hollas
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 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

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