

1. PRODUCT AND COMPANY IDENTIFICATION

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

Product Code 5687
Chemical Nature Polymer suspension
Emergency Telephone Number
 CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER
 Extremely flammable
 Vapors may cause flash fire or explosion
 Harmful if inhaled
 Causes skin irritation
 Causes eye irritation
 May be harmful if swallowed

Color Colorless - Light yellow

Physical State Liquid

Odor Petroleum distillates

Potential Health Effects

Principle Route of Exposure

Eye contact, Skin 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

Causes respiratory tract irritation. Causes headache, drowsiness or other effects to the central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Chronic Toxicity

Repeated and prolonged exposure to solvents may cause brain and nervous system damage, May cause irregular heartbeats, especially under conditions of stress, Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood, Suspect reproductive hazard - contains material which may injure unborn child, May cause polymer fume fever, a temporary flu-like illness accompanied by chills, fever, and a cough. This can last up to 24 hours in duration .

Target Organ Effects

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

Aggravated Medical Conditions

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

Potential Environmental Effects

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Xylenes (o-, m-, p- isomers)	1330-20-7
Styrene-butadiene polymer	9003-55-8
Hexanes	110-54-3
Propane	74-98-6
Butane	106-97-8

The product contains no substances which at their given concentration, are considered to be hazardous to health

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 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.
Inhalation Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if irritation develops and persists.
Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point -10°F/-23°C **Method** Seta closed cup
Autoignition Temperature No information available.
Flammability Limits in Air % Solvent mixture. **Upper** 9.5 **Lower** 0.9

Suitable Extinguishing Media
 Foam. Alcohol-resistant foam. Dry chemical. Water spray. Carbon dioxide (CO2).

Specific hazards arising from the chemical

Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Flame extension: >30 inches / >75 cm and Burnback: 6 inches / 15 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.

Aerosol Level (NFPA 30B) -

3

NFPA Health 2
HMIS Health 2

Flammability 4
Flammability 4

Instability 0
Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear protective gloves/clothing. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so.
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. Keep out of the reach of children.			
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
Xylenes (o-, m-, p- isomers)	150 ppm STEL : 100 ppm TWA	100 ppm TWA; 435 mg/m ³ TWA	No data available
Styrene-butadiene polymer	3 mg/m ³ PNOS	5 mg/m ³ PNOR	No data available
Hexanes	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)
Propane	1000 ppm TWA	1000 ppm TWA; 1800 mg/m ³ TWA	2100 ppm IDLH (10% LEL) : 1000 ppm TWA; 1800 mg/m ³ TWA
Butane	1000 ppm TWA	No data available	800 ppm TWA; 1900 mg/m ³ TWA

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

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

Wear protective gloves/clothing. 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	Semi-viscous
Color	Colorless - Light yellow	Odor	Petroleum distillates
Appearance	Transparent - Cloudy	pH	Not applicable
Specific Gravity	0.77	Evaporation Rate	>1
Percent Volatile (Volume)	>83	VOC Content (%)	83
VOC Content (g/L)	639	Vapor Pressure	< 3,800 mmHg @ 70 °F
Vapor Density	>1 (Air = 1.0)	Solubility	Negligible
Boiling Point/Range	No data available		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	None known.
Incompatible Products	Strong oxidizing agents
Hazardous Decomposition Products	Carbon oxides
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information	No information available.
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Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h 47635 mg/L (Rat) 4 h	no data available	no data available
Styrene-butadiene polymer	no data available	no data available	no data available	no data available	no data available
Hexanes	25 g/kg (Rat)	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
Butane	no data available	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
Xylenes (o-, m-, p- isomers)	no data available	no data available	X	no data available	heart, blood, lung, CNS, PNS, respiratory system, ears, liver, kidney
Styrene-butadiene polymer	no data available	no data available	no data available	no data available	no data available
Hexanes	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, PNS eyes, CNS, respiratory system, skin (other than n-hexane)
Propane	no data available	no data available	no data available	no data available	CNS
Butane	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
Xylenes (o-, m-, p- isomers)	not applicable	not applicable	not applicable	not applicable	not applicable
Styrene-butadiene polymer	not applicable	not applicable	not applicable	not applicable	not applicable
Hexanes	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

12. ECOLOGICAL INFORMATION**Product Information**

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Xylenes (o-, m-, p- isomers)	no data available	LC50 13.1-16.5 mg/L <i>Lepomis macrochirus</i> 96 h LC50 13.5-17.3 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50 2.661-4.093 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50 23.53-29.97 mg/L <i>Pimephales promelas</i> 96 h LC50 30.26-40.75 mg/L <i>Poecilia reticulata</i> 96 h LC50 7.711-9.591 mg/L <i>Lepomis macrochirus</i> 96 h LC50= 13.4 mg/L <i>Pimephales promelas</i> 96 h LC50= 19 mg/L <i>Lepomis macrochirus</i> 96 h LC50= 780 mg/L <i>Cyprinus carpio</i> 96 h LC50> 780 mg/L <i>Cyprinus carpio</i> 96 h	EC50 = 0.0084 mg/L 24 h	LC50 = 0.6 mg/L 48 h EC50 = 3.82 mg/L 48 h	2.77 - 3.15
Styrene-butadiene polymer	no data available	no data available	no data available	no data available	N/A
Hexanes	no data available	LC50 2.1-2.98 mg/L <i>Pimephales promelas</i> 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	<=2.8 2.3
Butane	no data available	no data available	no data available	no data available	<=2.8 2.89

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

Warning! Container under pressure. Do not puncture. Empty remaining contents.

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 2.1
UN-No UN1950

EmS No. F-D, S-U
 Shipping Description UN1950, Aerosols,2.1 LIMITED QUANTITIES

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
Xylenes (o-, m-, p- isomers)	1330-20-7	15-40	1.0 % de minimis concentration
Hexanes	110-54-3	30-60	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
Xylenes (o-, m-, p- isomers)	Not applicable	Not applicable
Styrene-butadiene polymer	Not applicable	Not applicable
Hexanes	Not applicable	Not applicable
Propane	Not applicable	Not applicable
Butane	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, D2B Toxic materials.



16. OTHER INFORMATION

Prepared By Mike McDowell
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 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

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