

Material Safety Data Sheet: LOK-CEASE 20/20 AEROSOL

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name LOK-CEASE 20/20 AEROSOL
Recommended use Lubricant
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 5588
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
May be harmful if swallowed
Contents under pressure

Color White - Off-white

Physical State Liquid

Odor Oily

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.

Inhalation

Causes respiratory tract irritation. May cause central nervous system depression. 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 be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Chronic Toxicity

Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated inhalation may cause damage to the lungs. Kidney injury may occur. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin.

Target Organ Effects

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

Aggravated Medical Conditions

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

Potential Environmental Effects

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
White mineral oil, solvent refined	8042-47-5
Calcium carbonate	1317-65-3
Propane	74-98-6
Zinc oxide	1314-13-2
Hexane	110-54-3
Naphtha, petroleum, hydrotreated light	64742-49-0
Solvent naphtha (petroleum), light aliphatic	64742-89-8
Butane	106-97-8
Heptane (n-)	142-82-5
Oxoaluminum Benzoate/Stearate	151911-66-9
Cyclohexane	110-82-7
Crystalline Silica (Quartz)	14808-60-7

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

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion
Notes to physician

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 <100 °F / 23 °C
Autoignition Temperature No information available.
Flammability Limits in Air % Mixture. Upper 9.5 Lower 1.9
Suitable Extinguishing Media Carbon dioxide (CO2). Dry chemical. Water spray. Foam.
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: 6 inch / 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 1 **Flammability** 4 **Instability** 0
HMIS Health 1 **Flammability** 4 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Take precautionary measures against static discharges. Remove all sources of ignition. 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 open flames, hot surfaces and sources of ignition. Store in original container. Keep containers tightly closed 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
White mineral oil, solvent refined	5 mg/m ³	5 mg/m ³	IDLH 2500 mg/m ³ STEL 10 mg/m ³
Calcium carbonate	No data available	TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 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
Zinc oxide	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³ TWA: 15 mg/m ³	IDLH: 500 mg/m ³ Ceiling: 15 mg/m ³ STEL 10 mg/m ³ TWA: 5 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
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
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m ³
Heptane (n-)	TWA: 400 ppm STEL: 500 ppm	TWA: 500 ppm TWA: 2000 mg/m ³	IDLH: 750 ppm Ceiling: 440 ppm Ceiling: 1800 mg/m ³ TWA: 85 ppm

			TWA: 350 mg/m ³
Oxaluminum Benzoate/Stearate	No data available	No data available	No data available
Cyclohexane	TWA: 100 ppm	TWA: 300 ppm TWA: 1050 mg/m ³	IDLH: 1300 ppm TWA: 300 ppm TWA: 1050 mg/m ³
Crystalline Silica (Quartz)	: 0.025 mg/m ³ TWA (respirable fraction)	No data available	IDLH: 50 mg/m ³ TWA: 0.05 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	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	Viscous
Color	White - Off-white	Odor	Oily
Appearance	Opaque	pH	Not applicable
Specific Gravity	0.989	Evaporation Rate	36.7 (Butyl acetate=1)
Percent Volatile (Volume)	28.5	VOC Content (%)	28.5
VOC Content (g/L)	148	Vapor Pressure	1750 mmHg @ 70°F
Vapor Density	1.7 (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	Keep away from open flames, hot surfaces, and sources of ignition
Incompatible Products	Strong oxidizing agents, Acids, Bases.
Hazardous Decomposition Products	Carbon oxides, Zinc oxide fumes.
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
Calcium carbonate	= 6450 mg/kg (Rat)	no data available	no data available	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
Zinc oxide	> 5000 mg/kg (Rat)	no data available	no data available	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
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
Butane	no data available	no data available	= 658 g/m ³ (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
Oxaluminum Benzoate/Stearate	no data available	no data available	no data available	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
Crystalline Silica (Quartz)	= 500 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
Calcium carbonate	no data available	no data available	no data available	no data available	eyes, respiratory system, skin
Propane	no data available	no data available	no data available	no data available	CNS, heart
Zinc oxide	no data available	no data available	no data available	no data available	respiratory system, CNS
Hexane	no data available	no data available	no data available	yes	eyes, CNS, respiratory system, auditory system, skin, PNS, heart
Naphtha, petroleum,	no data available	no data available	no data available	no data available	no data available

hydrotreated light					
Solvent naphtha (petroleum), light aliphatic	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
Heptane (n-)	no data available	no data available	no data available	no data available	skin, CNS, respiratory system, heart
Oxoaluminum Benzoate/Stearate	no data available	no data available	no data available	no data available	no data available
Cyclohexane	no data available	no data available	no data available	no data available	eyes, CNS, kidneys, respiratory system, skin
Crystalline Silica (Quartz)	no data available	no data available	no data available	no data available	eyes, respiratory system (in animals: lung cancer), kidneys

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
White mineral oil, solvent refined	not applicable	not applicable	not applicable	not applicable	not applicable
Calcium carbonate	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Zinc oxide	not applicable	not applicable	not applicable	not applicable	not applicable
Hexane	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
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Heptane (n-)	not applicable	not applicable	not applicable	not applicable	not applicable
Oxoaluminum Benzoate/Stearate	not applicable	not applicable	not applicable	not applicable	not applicable
Cyclohexane	not applicable	not applicable	not applicable	not applicable	not applicable
Crystalline Silica (Quartz)	A2	Group 1	Known	X	not applicable

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
Calcium carbonate	no data available	no data available	no data available	no data available	N/A
Propane	no data available	no data available	no data available	no data available	2.3
Zinc oxide	no data available	no data available	no data available	no data available	N/A
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
Naphtha, petroleum, hydrotreated light	no data available	no data available	no data available	LC50 = 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
Butane	no data available	no data available	no data available	no data available	2.89
Heptane (n-)	no data available	LC50 = 375.0 mg/L Cichlid fish 96 h	no data available	EC50 > 10 mg/L 24 h	4.66
Oxoaluminum Benzoate/Stearate	no data available	no data available	no data available	no data available	N/A
Cyclohexane	EC50 > 500 mg/L Desmodesmus subspicatus 72 h	LC50 3.96 - 5.18 mg/L Pimephales promelas 96 h LC50 23.03 - 42.07 mg/L Pimephales promelas 96 h LC50 24.99 - 44.69 mg/L Lepomis macrochirus 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	EC50 > 400 mg/L 24 h	3.44
Crystalline Silica (Quartz)	no data available	no data available	no data available	no data available	N/A

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 DO NOT SHIP AIR

IATA

UN-No DO NOT SHIP AIR

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 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 Values
Zinc oxide	1314-13-2	3-7	1.0
Hexane	110-54-3	3-7	1.0
Cyclohexane	110-82-7	1-5	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
White mineral oil, solvent refined	Not applicable	Not applicable
Calcium carbonate	Not applicable	Not applicable
Propane	Not applicable	Not applicable
Zinc oxide	Not applicable	Not applicable
Hexane	5000 lb	Not applicable
Naphtha, petroleum, hydrotreated light	Not applicable	Not applicable
Solvent naphtha (petroleum), light aliphatic	Not applicable	Not applicable
Butane	Not applicable	Not applicable
Heptane (n-)	Not applicable	Not applicable
Oxoaluminum Benzoate/Stearate	Not applicable	Not applicable
Cyclohexane	1000 lb	Not applicable
Crystalline Silica (Quartz)	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	Angela Hutson
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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