



SAFETY DATA SHEET

LOBASE® C-4502

Version: 1.1

Revision Date: 03/31/2015

Print Date: 04/21/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOBASE® C-4502

Product Use Description: Lubricants and lubricant additives

Company: Chemtura Corporation
199 Benson Road
Middlebury, CT
06749
United States of America

Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300
:
Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department
(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Lubricants and lubricant additives

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

Form	viscous liquid
Colour	brown
Odour	mild hydrocarbon-like

GHS Classification

Skin sensitisation : Category 1

GHS Label element

Signal word : **Warning**



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Hazard pictograms :



Hazard statements :

H317 May cause an allergic skin reaction.

Other hazards :

None

Precautionary statements :

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	>= 50 - < 70 %
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 20 - < 30 %
Sulfonic acids, petroleum, calcium salts	61789-86-4	>= 10 - < 20 %
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	>= 5 - < 10 %
calcium carbonate	471-34-1	>= 1 - < 5 %

SECTION 4. FIRST AID MEASURES



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- If inhaled : Remove to fresh air.
Aspiration may cause pulmonary oedema and pneumonitis.
If breathing is difficult, give oxygen.
If symptoms persist, call a physician.
- In case of skin contact : Cool skin rapidly with cold water after contact with molten material.
Wash off with warm water and soap.
If skin irritation persists, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Obtain medical attention.
- If swallowed : Obtain medical attention.
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Sensitisation
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : (on small fires)
Carbon dioxide (CO₂)
Dry chemical
Dry sand
Extinguishing media - large fires
Foam
Water mist
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
- Specific extinguishing methods : Cool containers/tanks with water spray.
- Special protective equipment for firefighters : Wear a positive-pressure supplied-air respirator with full facepiece.
Full protective flameproof clothing

SECTION 6. ACCIDENTAL RELEASE MEASURES



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- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
- Environmental precautions : Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Clean-up methods - large spillage Dam up. Large spills should be collected mechanically (remove by pumping) for disposal. Clean-up methods - small spillage Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with skin, eyes and clothing.
Wear suitable protective equipment.
Keep tightly closed.
Protect from contamination.
Ensure all equipment is electrically grounded before beginning transfer operations.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.
- Materials to avoid : Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0
calcium carbonate	471-34-1	TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL

Personal protective equipment



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Respiratory protection	: In the case of vapour formation use a respirator with an approved filter. Respirator with combination filter for vapour/particulate (EN 141).
Hand protection Remarks	: Polyvinyl alcohol or nitrile- butyl-rubber gloves Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gloves must be rinsed thoroughly after use.
Eye protection	: Tightly fitting safety goggles
Skin and body protection	: impervious clothing
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: viscous liquid
Color	: brown
Odor	: mild hydrocarbon-like
Odour Threshold	: No data available
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Evaporation rate	: No data available
Flash point	: > 180 °C Method: open cup
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: > 1 (25 °C)
Density	: No data available
<u>Solubility(ies)</u>	
Water solubility	: negligible
Solubility in other solvents	: partly soluble



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Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Thermal decomposition : No data available
Viscosity
Viscosity, kinematic : > 30 mm²/s (40 °C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : Hazardous polymerisation does not occur.
Conditions to avoid : Contamination
Heat, flames and sparks.
Exposure to air or moisture over prolonged periods.
Incompatible materials : Oxidizing agents
Hazardous decomposition products : Carbon oxides
Sulphur oxides
Oxides of calcium

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : LD50: > 20,000 mg/kg
Species: Rat
Remarks: Information given is based on data obtained from similar substances.
Acute dermal toxicity
Sulfonic acids, petroleum, calcium salts (Component) : LD50: > 4,000 mg/kg
Species: Rabbit
Method: OECD Test Guideline 402
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (Component) : LD50: > 2,000 mg/kg
Species: Rat
Method: OECD Test Guideline 402



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Skin irritation
calcium carbonate
(Component) : Species: Rabbit
Result: No skin irritation

Eye irritation
calcium carbonate
(Component) : Species: Rabbit
Result: No eye irritation

Sensitisation
Benzenesulfonic acid, C10-
16-alkyl derivs., calcium salts
(Component) : Result: Probability or evidence of low to moderate skin sensitisation rate
in humans

Sulfonic acids, petroleum,
calcium salts (Component) : Result: Probability or evidence of low to moderate skin sensitisation rate
in humans

Benzenesulfonic acid, mono-
C16-24-alkyl derivs., calcium
salts (Component) : Result: Probability or evidence of low to moderate skin sensitisation rate
in humans

Reproductive toxicity
calcium carbonate
(Component) : Species: Rat
Application Route: Oral

CMR effects
calcium carbonate
(Component) : Teratogenicity: No effects on or via lactation
Reproductive toxicity: No toxicity to reproduction

Further information (Product) : The product itself has not been tested.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish (Product) : Remarks:
No data available

Toxicity to daphnia and other aquatic invertebrates
Sulfonic acids, petroleum,
calcium salts (Component) : EC50: > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
static test Method: OECD Test Guideline 202



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Toxicity to algae
Sulfonic acids, petroleum, calcium salts (Component) : EbC50: > 100 mg/l
Exposure time: 72 h
Species: Green algae (Scenedesmus subspicatus)
static test Analytical monitoring: no
Method: OECD Test Guideline 201

ErC50: > 100 mg/l
Species: Green algae (Scenedesmus subspicatus)
static test Analytical monitoring: no
Method: OECD Test Guideline 201

Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:
No data available

Mobility (Product) : Remarks:
No data available

Biodegradability (Product) : Result: No data available

Further information on ecology

Additional ecological information (Product) : No information on ecology is available.
Avoid release to the environment.

(Product) : This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological waste water treatment plant.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

ADR

Not dangerous goods

RID

Not dangerous goods



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MERCOSUR

Not dangerous goods

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Additional advice: Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list : Not relevant
Not relevant

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

US.TSCA	On TSCA Inventory
DSL	All components of this product are on the Canadian DSL.
AICS	On the inventory, or in compliance with the inventory
NZIoC	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory



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SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.