SAFETY DATA SHEET

LOBASE ® C4509

Version	Revision Date:	SDS Number:	Date of last issue: 10/26/2020
2.0	06/14/2022	203000017173	Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : LOBASE ® C4509

Product code : 000000000058318005

Manufacturer or supplier's details

Company : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS
(412) 809-1000
lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or
(703) 527-3887 (Outside U.S.A) and mention CCN12916.
Lanxess Emergency Phone (800) 410-3063.

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

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :

Signal Word : Warning

Hazard Statements : May cause an allergic skin reaction.

May cause respiratory irritation.

Precautionary Statements :

Prevention:

Avoid breathing mist or vapors.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	>= 50 - < 70
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 20 - < 30
Calcium Petroleum Sulfonate	61789-86-4	>= 5 - < 10
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	>= 5 - < 10
Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified	64742-70-7	>= 1 - < 5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain open airway. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
In case of skin contact	:	Wash off with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Get medical attention if symptoms appear.
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Most important symptoms and effects, both acute and delayed

Symptoms	:	May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose. Skin: Causes irritation with symptoms of reddening, itching, and swelling. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Effects	:	May cause an allergic skin reaction. May cause respiratory irritation.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Carbon dioxide (CO2) Carbon monoxide Metal oxides
Further information	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protection equipment. Do not touch or walk through spilled material. Evacuate unnecessary personnel. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Do not breathe vapors, aerosols.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	:	Stop leak if safe to do so. Move containers from spill area. Wash spillages into an effluent treatment plant or proceed as follows. 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). Dispose of wastes in an approved waste disposal facility. Do not allow into the sewerage system, surface waters or groundwater or into the soil. Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Remove contaminated clothing and protective equipment before entering eating areas.
Workers should wash hands and face before eating, drinking and smoking.
Put on appropriate personal protection equipment.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.
Avoid inhalation, ingestion and contact with skin and eyes.
Use only with adequate ventilation/personal protection.

Conditions for safe storage : Store in accordance with local regulations.
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.
Keep containers sealed until ready for use.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not store in unlabeled containers.
Empty containers retain residue and can be dangerous.
Do not reuse container.
Keep away from heat and sources of ignition.

Further information on storage conditions : Keep away from oxidizing agents.

Further information on storage stability : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

Engineering measures : If user operations generate dust, fumes or mist, use ventila-

tion to keep exposure to airborne contaminants below the exposure limit.

Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
NIOSH approved, air-purifying organic vapor respirator.

Hand protection
Material : Polyvinyl alcohol
Wearing time : < 60 min

Material : Nitrile rubber - NBR
Wearing time : < 60 min

Material : Butyl rubber - IIR
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective clothing.
Chemical resistant apron
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Appropriate techniques should be used to remove potentially contaminated clothing.
Wash contaminated clothing before reusing.
Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Physical state : liquid

Color	:	brown
Odor	:	mild, hydrocarbon-like
Odor Threshold	:	No data available
pH	:	substance/mixture is non-soluble (in water)
	:	Not applicable
Boiling point/boiling range	:	No data available
Flash point	:	> 356 °F / 180 °C Method: open cup
Evaporation rate	:	No data available
Self-ignition	:	No data available
Burning number	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	> 1 (77 °F / 25 °C)
Density	:	No data available
Solubility(ies)		
Water solubility	:	negligible
Solubility in other solvents	:	partly soluble
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available
Decomposition temperature	:	No data available

Self-Accelerating decomposition temperature (SADT)	:	No data available
Viscosity		
Viscosity, dynamic	:	40 - 80 mPa.s (212 °F / 100 °C) Method: ASTM D 445
Viscosity, kinematic	:	> 30 mm2/s (104 °F / 40 °C)
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Dust explosion class	:	No data available
Metal corrosion rate	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous polymerization does not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	Carbon oxides Sulfur oxides Nitrogen oxides (NOx) Metal oxides

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	LD50 (Rat): > 20,000 mg/kg Remarks: Information given is based on data obtained from similar substances.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: Test results on an analogous product

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Remarks: Test results on an analogous product

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Test results on an analogous product

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Dosage caused no mortality

LD50 (Rat, male): > 16,000 mg/kg
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.9 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OPP 81-3 Acute Inhalation Toxicity
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: 40 CFR, Section 163.81-5, Federal Register, August 22, 1978 as modified in accordance with the revised EPA Pesticide Assessment Guidelines November 1982

GLP: yes

Calcium Petroleum Sulfonate:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.9 mg/l

Exposure time: 4 h
Test atmosphere: dust/mist
Method: OPP 81-3 Acute Inhalation Toxicity
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
Remarks: Dosage caused no mortality

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Dosage caused no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.9 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OPP 81-3 Acute Inhalation Toxicity
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
Remarks: Dosage caused no mortality

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: No information available.
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Based on data from similar materials

Skin corrosion/irritation

Not classified based on available information.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Species	:	Rabbit
Method	:	Draize Test
Result	:	No skin irritation
GLP	:	yes
Remarks	:	Test results on an analogous product

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Calcium Petroleum Sulfonate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Species	:	Rabbit
Result	:	No skin irritation

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Species	:	Rabbit
Exposure time	:	24 h
Result	:	No skin irritation
GLP	:	yes
Remarks	:	Based on data from similar materials

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes
Remarks	:	Test results on an analogous product

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes

Calcium Petroleum Sulfonate:

Species	:	Rabbit
Result	:	No eye irritation

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Species	:	Rabbit
Result	:	No eye irritation

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Species	:	Rabbit
Result	:	No eye irritation
GLP	:	yes
Remarks	:	Based on data from similar materials

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Test Type	:	Buehler Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Did not cause sensitization on laboratory animals.
GLP	:	yes
Remarks	:	Test results on an analogous product

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Routes of exposure	:	Dermal
Species	:	Guinea pig
Result	:	The product is a skin sensitiser, sub-category 1B.

Test Type	:	Buehler Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig

Result : The product is a skin sensitiser, sub-category 1B.

Calcium Petroleum Sulfonate:

Routes of exposure : Dermal
Species : Guinea pig
Result : The product is a skin sensitiser, sub-category 1B.

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Test Type : Local lymph node assay (LLNA)
Routes of exposure : Dermal
Species : Mouse
Method : OECD Test Guideline 429
Result : The product is a skin sensitiser, sub-category 1B.

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Test Type : Buehler Test
Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitization.
GLP : yes
Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Genotoxicity in vitro : Test Type: Ames test
Test system: TA98
Metabolic activation: with metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.
Remarks: Test results on an analogous product

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: no
Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: positive
GLP: yes
Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.
Remarks: Test results on an analogous product

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Result: negative
GLP: yes

Calcium Petroleum Sulfonate:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)
Test system: Bacteria

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
Remarks: Test results on an analogous product

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)
Test system: Bacteria
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with metabolic activation
Result: negative
GLP: No information available.
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Result: negative
GLP: no
Remarks: Based on data from similar materials

Genotoxicity in vivo : Species: Mouse (male and female)

Cell type: Bone marrow
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.
Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Species	:	Mouse, female
Application Route	:	Dermal
Exposure time	:	18 month(s)
Method	:	OECD Test Guideline 451
Result	:	negative
GLP	:	No information available.
Remarks	:	Test results on an analogous product

Species	:	Mouse, male
Application Route	:	Dermal
Exposure time	:	24 month(s)
Method	:	OECD Test Guideline 453
Result	:	positive
GLP	:	No information available.
Remarks	:	Test results on an analogous product

Carcinogenicity - Assessment	:	Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Species	:	Mouse, female
Application Route	:	Dermal
Exposure time	:	78 weeks
Frequency of Treatment	:	various
Result	:	negative
GLP	:	No information available.
Remarks	:	Based on data from similar materials

Carcinogenicity - Assessment	:	Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

IARC No ingredient 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 on OSHA's list of regulated carcinogens.

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

Reproductive toxicity

Not classified based on available information.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat, male and female
Application Route: Oral
Dose: 0 - 1000 milligram per kilogram
General Toxicity Parent: NOAEL: >= 1,000 mg/kg body weight
Fertility: NOAEL: >= 1,000 mg/kg body weight
Early Embryonic Development: NOAEL: >= 1,000 mg/kg body weight
Method: OECD Test Guideline 421
Result: Animal testing did not show any effects on fertility.
GLP: yes
Remarks: Test results on an analogous product

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat, female
Application Route: Dermal
Dose: 0 - 125 - 500 milligram per kilogram
General Toxicity Maternal: NOAEL: >= 2,000 mg/kg body weight
Teratogenicity: NOAEL: >= 2,000 mg/kg body weight
Developmental Toxicity: NOAEL: >= 2,000 mg/kg body weight
Embryo-fetal toxicity.: NOAEL: >= 2,000 mg/kg body weight
Method: OECD Test Guideline 414
Result: negative
GLP: No information available.
Remarks: Test results on an analogous product

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Duration of Single Treatment: 28 Days
General Toxicity Parent: NOAEL: >= 500 mg/kg body weight
Fertility: NOAEL: >= 500 mg/kg body weight
Method: OECD Test Guideline 415
GLP: yes
Remarks: Test results on an analogous product

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Effects on fertility : Species: Rat, male and female

Application Route: Oral
Fertility: NOAEL: >= 1,000 mg/kg bw/day
Early Embryonic Development: NOAEL: >= 1,000 mg/kg bw/day
Method: OECD Test Guideline 421
GLP: yes
Remarks: Based on data from similar materials

Effects on fetal development : Species: Rat, male and female
Application Route: Oral
General Toxicity Maternal: NOAEL: >= 5,000 mg/kg bw/day
Developmental Toxicity: NOAEL: >= 5,000 mg/kg bw/day
GLP: No information available.
Remarks: Based on data from similar materials

STOT-single exposure

May cause respiratory irritation.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Assessment : May cause respiratory irritation.

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Species : Rat, male
LOAEL : 125 mg/kg
Application Route : Oral
Exposure time : 90 d
Number of exposures : 5 days/week
Dose : 0 - 125 - 500 mg/kg bw/d
Method : OECD Test Guideline 408
GLP : No information available.
Remarks : Subchronic toxicity
Test results on an analogous product

Species : Rat, male and female
NOAEC : >= 1 mg/l
Application Route : inhalation (dust/mist/fume)
Exposure time : 20 d

Number of exposures	:	6 hours/day
Dose	:	0 - 0.05 - 0,22
Method	:	OECD Test Guideline 412
GLP	:	No information available.
Remarks	:	Subacute toxicity Test results on an analogous product

Species	:	Rat, male and female
NOAEL	:	>= 2000 mg/kg
Application Route	:	Skin contact
Exposure time	:	90 d
Number of exposures	:	5 days/week
Dose	:	0 - 2000 mg/kg bw/d
Method	:	OECD Test Guideline 411
GLP	:	No information available.
Remarks	:	Subchronic toxicity Test results on an analogous product

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Species	:	Rat, male and female
NOAEL	:	500 mg/kg
Application Route	:	Oral
Exposure time	:	28 Days
Number of exposures	:	daily
Method	:	OECD Test Guideline 407
GLP	:	yes
Remarks	:	Test results on an analogous product

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Species	:	Rat, male
LOAEL	:	125 mg/kg
Application Route	:	Oral
Exposure time	:	13 Weeks
Number of exposures	:	5 days/week
Dose	:	0, 125, 500 mg/kg bw/day
GLP	:	No information available.
Remarks	:	Based on data from similar materials

Species	:	Rat, male and female
NOAEL	:	>= 980 mg/m³
Application Route	:	Inhalation
Exposure time	:	4 Weeks
Number of exposures	:	6 hours/day, 5 days/week
GLP	:	No information available.
Remarks	:	Based on data from similar materials

Species	:	Rat, male and female
NOAEL	:	>= 2,000 mg/kg
Application Route	:	Dermal

Exposure time	:	13 Weeks
Number of exposures	:	5 days/week
Method	:	OECD Test Guideline 411
GLP	:	No information available.
Remarks	:	Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks	:	No data is available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data is available on the product itself.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Toxicity to fish	:	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes Remarks: nominal concentration Test results on an analogous product water extractable fraction
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Analytical monitoring: no Method: OECD Test Guideline 202 GLP: No information available. Remarks: nominal concentration Test results on an analogous product water extractable fraction
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l

Exposure time: 72 h
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: No information available.
Remarks: nominal concentration
Test results on an analogous product
water extractable fraction

NOELR (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l
Exposure time: 72 h
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: No information available.
Remarks: nominal concentration
Test results on an analogous product
water extractable fraction

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 10 mg/l
End point: Reproduction
Exposure time: 21 d
Analytical monitoring: no
Method: OECD Test Guideline 211
GLP: yes
Remarks: nominal concentration
Test results on an analogous product
water extractable fraction

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l
End point: mortality
Exposure time: 96 h
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: water extractable fraction
Test results on an analogous product

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l
End point: Immobilization
Exposure time: 48 h
Analytical monitoring: yes
Method: OPPTS 797.1300
GLP: yes
Remarks: water extractable fraction
Test results on an analogous product

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l

End point: Growth rate
Exposure time: 96 h
Analytical monitoring: yes
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)
GLP: yes
Remarks: water extractable fraction
Test results on an analogous product

NOAEL (No observed adverse effect level) (Pseudokirchneriella subcapitata (green algae)): >= 1,000 mg/l
End point: Growth rate
Exposure time: 96 h
Analytical monitoring: yes
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)
GLP: yes
Remarks: water extractable fraction
Test results on an analogous product

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: water extractable fraction

Calcium Petroleum Sulfonate:

Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes
Remarks: water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OPPTS 797.1300
Remarks: water extractable fraction

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l
End point: Growth rate
Exposure time: 96 h
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)
Remarks: Test results on an analogous product
water extractable fraction

NOEC (Pseudokirchneriella subcapitata (green algae)): 1,000

mg/l
End point: Growth rate
Exposure time: 96 h
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)
Remarks: water extractable fraction
Test results on an analogous product

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: water extractable fraction

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l
End point: mortality
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l
End point: Immobilization
Exposure time: 48 h
Method: OPPTS 797.1300
Remarks: water extractable fraction
Test results on an analogous product

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (microalgae)): > 1,000 mg/l
End point: Growth rate
Exposure time: 96 h
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)
Remarks: water extractable fraction
Test results on an analogous product

NOEC (Pseudokirchneriella subcapitata (microalgae)): 1,000 mg/l
Exposure time: 96 h
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)
Remarks: water extractable fraction
Test results on an analogous product

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Method: OECD Test Guideline 209

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 10,000 mg/l End point: Immobilization Exposure time: 48 h Analytical monitoring: no GLP: No information available. Remarks: Based on data from similar materials (WAF)
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 203 GLP: yes Remarks: (WAF) NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 203 GLP: yes Remarks: (WAF)
Toxicity to fish (Chronic toxicity)	:	NOELR (Oncorhynchus mykiss (rainbow trout)): >= 1,000 mg/l End point: mortality Exposure time: 28 d Method: calculated GLP: no Remarks: The value is calculated
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEL (Daphnia magna (Water flea)): 10 mg/l End point: Reproduction Exposure time: 21 d GLP: yes Remarks: water extractable fraction

Persistence and degradability

Product:

Biodegradability	:	Result: No data available

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Biodegradability	:	aerobic Concentration: 44 mg/l Result: Inherently biodegradable. Biodegradation: 31 %

Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

Stability in water : Remarks: The product is insoluble and floats on water.

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 2 mg/l
Result: Not readily biodegradable.
Biodegradation: 8.6 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes
Remarks: Test results on an analogous product

Calcium Petroleum Sulfonate:

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 2 mg/l
Result: Not readily biodegradable.
Biodegradation: 8.6 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes
Remarks: Test results on an analogous product

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 2 mg/l
Result: Not readily biodegradable.
Biodegradation: 8.6 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Partition coefficient: n-octanol/water : log Pow: > 3.90
Method: Calculated value

Mobility in soil

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Mobility : Remarks: The product is insoluble and floats on water.
Known distribution to environmental compartments

Other adverse effects

Product:

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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste from residues : The generation of waste should be avoided or minimized wherever possible.
This material and its container must be disposed of in a safe way.
Empty containers retain product residue; observe all precautions for product.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Hazard and Handling Notes.

Not dangerous cargo, Keep separated from foodstuffs

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

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

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Respiratory or skin sensitization
Specific target organ toxicity (single or repeated exposure)

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.

US State Regulations

Massachusetts Right To Know

Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified	64742-70-7	> 1

Pennsylvania Right To Know

Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	50 - 70
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	20 - 30
Calcium Petroleum Sulfonate	61789-86-4	5 - 10
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	5 - 10
calcium carbonate	471-34-1	> 1
Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified	64742-70-7	> 1

California Prop. 65

WARNING: This product can expose you to chemicals including Crystalline Quartz Silica, naphthalene, ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

TSCA inventory

TSCA : All substances listed as active on the TSCA inventory

TSCA list

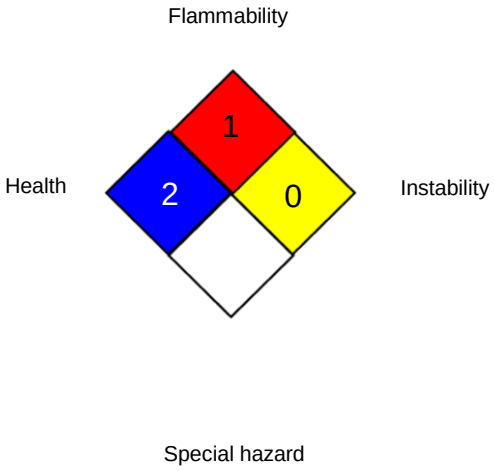
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

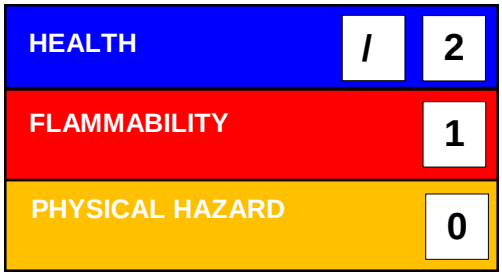
SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Exist-

ing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 06/14/2022

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.