SAFETY DATA SHEET

CALCINATE ™ C-300CS

Version	Revision Date:	SDS Number:	Date of last issue: 09/29/2020
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SECTION 1. IDENTIFICATION

Product name : CALCINATE ™ C-300CS

Product code : 000000000058310529

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 : Additive

Restrictions on use : Restricted to professional users.

SECTION 2. HAZARDS IDENTIFICATION

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

Skin sensitization : Category 1

GHS label elements

Hazard pictograms :

Signal Word : Warning

Hazard Statements : May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
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 skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.

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-refined heavy paraffinic	64741-88-4	>= 30 - < 50
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	>= 10 - < 20
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 10 - < 20
Calcium Petroleum Sulfonate	61789-86-4	>= 5 - < 10
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	>= 1 - < 5

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

SECTION 4. FIRST AID MEASURES

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

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 : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention immediately.

If swallowed : Obtain medical attention.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms	:	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.
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	:	(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 fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Carbon monoxide Carbon dioxide (CO2) Metal oxides
Further information	:	Cool containers/tanks with water spray.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-	:	Wear suitable protective equipment.

gency procedures

Environmental precautions	:	Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
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 labeled containers.

SECTION 7. HANDLING AND STORAGE

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.
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 container closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate container to avoid environmental contamination.
Further information on storage conditions	:	Incompatible with 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-	64741-88-4	TWA (Mist)	5 mg/m3	OSHA Z-1

refined heavy paraffinic				
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

Engineering measures : Effective exhaust ventilation system
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection : NIOSH approved, air-purifying particulate respirator with N-95 filters.

Hand protection

Remarks : Impervious gloves

Eye protection : Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Hygiene measures : Take precautionary measures against static discharges.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Physical state : liquid

Color : brown

Odor : mild, hydrocarbon-like

Odor Threshold : No data available

pH : No data available

: 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	:	1.080 g/cm3 (68 °F / 20 °C)
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	:	No data available
Viscosity, kinematic	:	> 30 mm2/s (104 °F / 40 °C)
Explosive properties	:	No data available
Oxidizing properties	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.

Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reactions	:	Hazardous polymerization does not occur.
Conditions to avoid	:	Exposure to moisture. Contamination
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	Carbon oxides Sulfur oxides Metal oxides

SECTION 11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

Inhalation
Eye contact
Skin contact
Skin Absorption

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-refined heavy paraffinic:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Dosage caused no mortality

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

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

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

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Result	:	May cause sensitization by skin contact.

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	Did not cause sensitization on laboratory animals.

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.

Germ cell mutagenicity

Not classified based on available information.

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

Genotoxicity in vitro : Test system: Bacteria
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

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

Carcinogenicity

Not classified based on available information.

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

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

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)

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

STOT-single exposure

Not classified based on available information.

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

Assessment : May cause respiratory irritation.

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

Species : Rabbit, male and female
NOAEL : > 1,000 mg/kg
Application Route : Skin contact
Exposure time : 28 d
Number of exposures : 5 days/week
Remarks : Chronic toxicity

Species : Rat, male and female
NOAEL : 0.21 mg/l
Application Route : Inhalation
Exposure time : 28 d
Remarks : Chronic toxicity

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

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

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

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 5,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 1,000 mg/l
Exposure time: 96 h

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	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 1,000

plants

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

Persistence and degradability

Product:

Biodegradability : Result: No data available

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

Biodegradability : Result: Not readily biodegradable.

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 : There is no data available for this product.
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

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

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

Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	30 - 50
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	10 - 20

Pennsylvania Right To Know

Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	30 - 50
Proprietary Calcium Compound	Trade Secret	> 1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	10 - 20
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	10 - 20

Calcium Petroleum Sulfonate	61789-86-4	5 - 10
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	1 - 5

California Prop. 65

WARNING: This product can expose you to chemicals including naphthalene, 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

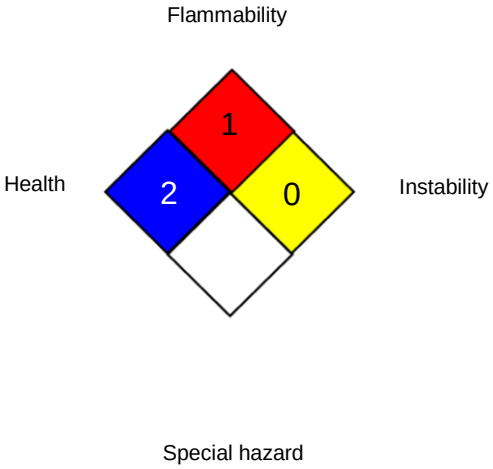
No substances are subject to a Significant New Use Rule.

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

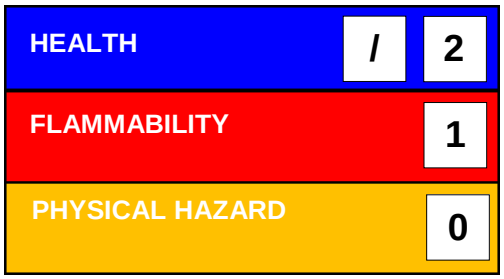
SECTION 16. OTHER INFORMATION

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)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
OSHA Z-1 / 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 - Existing 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; 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 : 02/08/2021

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.