

SAFETY DATA SHEET
CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : CALCINATE™ C-300R

Product code : 000000000058310536

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

SECTION 2. HAZARDS IDENTIFICATION

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

Eye irritation : Category 2A

GHS label elements

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : Causes serious eye irritation.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling.
Wear eye protection/ face protection.

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : calcium sulfonate detergent additive

Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 10 - < 20
Calcium Petroleum Sulfonate	61789-86-4	>= 5 - < 10
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	>= 1 - < 5
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	>= 1 - < 5
Calcium Hydroxide	1305-62-0	>= 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 warm water and soap.
If skin irritation persists, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Continue to rinse for at least 20 minutes.
Remove contact lenses.
Get medical attention if symptoms appear.

If swallowed : Rinse mouth with water.
Do not induce vomiting unless directed to do by medical personnel.
Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

- Symptoms : Eye: Causes irritation with symptoms of reddening, tearing, stinging, and swelling.
Skin: Causes irritation with symptoms of reddening, itching, and swelling.
- Effects : Causes serious eye 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 carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : 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 : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
-

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 personnel to safe areas.
Keep unnecessary and unprotected personnel from entering.
Provide adequate ventilation.
Do not breathe vapors, aerosols.
-

SAFETY DATA SHEET

CALCINATE™ C-300R



Version Revision Date: SDS Number: Date of last issue: 02/08/2021
3.0 03/19/2024 203000017553 Country / Language: US / EN

- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.
- Methods and materials for : Stop leak if safe to do so.
containment and cleaning up : 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 safe handling : Remove contaminated clothing and protective equipment be-
fore 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 contamina-
tion.
Empty containers retain residue and can be dangerous.
Do not reuse container.
- Further information on stor- : Keep away from oxidizing agents.
age conditions
- Further information on stor- : Stable under recommended storage conditions.
age stability
-

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

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/m ³	ACGIH
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7	TWA (Mist)	5 mg/m ³	OSHA Z-1
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH
		TWA (Mist)	5 mg/m ³	OSHA Z-1
Calcium Hydroxide	1305-62-0	TWA	5 mg/m ³	ACGIH
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1

Engineering measures : If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Material : Nitrile rubber
Wearing time : < 60 min

Material : Neoprene
Wearing time : < 60 min

Remarks : Impervious gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Request information on glove permeation properties from the glove supplier.

Eye protection : Safety glasses with side-shields

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

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

Hygiene measures : Electrically bond and ground all containers and equipment.
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)

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : > 356 °F / 180 °C
Method: open cup

Evaporation rate : No data available

Flammability (solid, gas) : 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 : < 0.0008 hPa (68 °F / 20 °C)

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

Relative vapor density : No data available

Relative density : > 1 (77 °F / 25 °C)

Density : 1.100 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 : Stable under normal conditions.

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

SAFETY DATA SHEET

CALCINATE™ C-300R



Version Revision Date: SDS Number: Date of last issue: 02/08/2021
3.0 03/19/2024 203000017553 Country / Language: US / EN

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

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.

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

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.

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

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

Distillates (petroleum), hydrotreated 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, male and female): > 5.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: No information available.
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, 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 (Rabbit, male and female): > 2,000 mg/kg
Remarks: Based on data from similar materials

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

Calcium Hydroxide:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg
Method: OECD Test Guideline 425
GLP: Yes
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Dosage caused no mortality

LD50 (Rat): 7,340 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,500 mg/kg
Method: OECD Test Guideline 402
GLP: No information available.
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality

Skin corrosion/irritation

Not classified based on available information.

Components:

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

Distillates (petroleum), hydrotreated heavy paraffinic:

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

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

Species : Rabbit
Result : No skin irritation

Calcium Hydroxide:

Species : Rabbit

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

Method : OECD Test Guideline 404
Result : Irritating to skin.
GLP : Yes

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

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

Distillates (petroleum), hydrotreated heavy paraffinic:

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

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

Species : Rabbit
Result : No eye irritation

Calcium Hydroxide:

Species : Rabbit
Result : Irreversible effects on the eye
Method : OECD Test Guideline 405
GLP : Yes

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Result : Does not cause skin sensitization.

SAFETY DATA SHEET

CALCINATE™ C-300R



Version Revision Date: SDS Number: Date of last issue: 02/08/2021
3.0 03/19/2024 203000017553 Country / Language: US / EN

Components:

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.

Distillates (petroleum), hydrotreated 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, 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.

Calcium Hydroxide:

Test Type : Local lymph node assay (LLNA)
Routes of exposure : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.
GLP : Yes
Remarks : Test results on an analogous product

Germ cell mutagenicity

Not classified based on available information.

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

Components:

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

Distillates (petroleum), hydrotreated 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.

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

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, 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

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

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)

Calcium Hydroxide:

Remarks : Weight of evidence does not support classification as a carcinogen

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:

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

Distillates (petroleum), hydrotreated 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

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

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

Calcium Hydroxide:

Effects on fetal development : Test Type: Pre-natal
Species: Rat, female
Dose: up to 680 milligram per kilogram
General Toxicity Maternal: NOAEL: 680 mg/kg bw/day
Developmental Toxicity: NOAEL: \geq 680 mg/kg bw/day
Method: OECD Test Guideline 414
Result: Did not show teratogenic effects in animal experiments.
GLP: No
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), hydrotreated heavy paraffinic:

Assessment : May cause respiratory irritation.

Calcium Hydroxide:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

Repeated dose toxicity

Components:

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

Distillates (petroleum), hydrotreated 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

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

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

Species : Rat
NOAEL : 1,000 mg/kg
Application Route : Oral
Exposure time : 28 d
Dose : 1000 mg/kg
Remarks : Chronic toxicity

Species : Rat
NOAEL : 1,000 mg/kg
Application Route : Dermal
Exposure time : 28 d
Dose : 1000 mg/kg
Remarks : Chronic toxicity

Species : Rat
NOAEL : 0.5 mg/l
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 28 d
Dose : 0,5 mg/l
Remarks : Chronic toxicity

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:

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

Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

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)): \geq 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

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

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

Distillates (petroleum), hydrotreated 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

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

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, 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 : EL50 (Pseudokirchneriella subcapitata (microalgae)): > 1,000

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

plants 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

Calcium Hydroxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 50.6 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 203
GLP: Yes
Remarks: Fresh water
nominal concentration

LC50 (Gasterosteus aculeatus (threespine stickleback)): 457 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: No
GLP: No information available.
Remarks: salt water
nominal concentration

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 49.1 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 202
GLP: Yes
Remarks: Fresh water

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 184.57 mg/l

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 201
GLP: Yes
Remarks: Fresh water
nominal concentration

EC10 (Pseudokirchneriella subcapitata (microalgae)): 79.22 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 201
GLP: Yes
Remarks: Fresh water
nominal concentration

Toxicity to microorganisms : EC50 (activated sludge): 300.4 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
GLP: Yes
Remarks: Fresh water

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Product:

Biodegradability : Result: No data available

Components:

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

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

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

Distillates (petroleum), hydrotreated heavy paraffinic:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 31 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
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

Calcium Hydroxide:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

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

Partition coefficient: n-octanol/water : log Pow: > 15
Method: Calculated value

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : The product itself has not been tested.

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

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

Hazard and Handling Notes.

Not dangerous cargo
Keep separated from foodstuffs

SECTION 15. REGULATORY INFORMATION

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 : Serious eye damage or eye irritation

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	64742-70-7	> 1
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	1 - 5
Calcium Hydroxide	1305-62-0	1 - 5
Crystalline Quartz Silica	14808-60-7	< 0.01

Pennsylvania Right To Know

Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	> 1
calcium carbonate	471-34-1	> 1
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	10 - 20
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7	> 1
Calcium Petroleum Sulfonate	61789-86-4	5 - 10
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	1 - 5
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	1 - 5
Calcium Hydroxide	1305-62-0	1 - 5

California Prop. 65

WARNING: This product can expose you to chemicals including Crystalline Quartz Silica, 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

SAFETY DATA SHEET

CALCINATE™ C-300R



Version 3.0 Revision Date: 03/19/2024 SDS Number: 203000017553 Date of last issue: 02/08/2021
Country / Language: US / EN

TSCA list

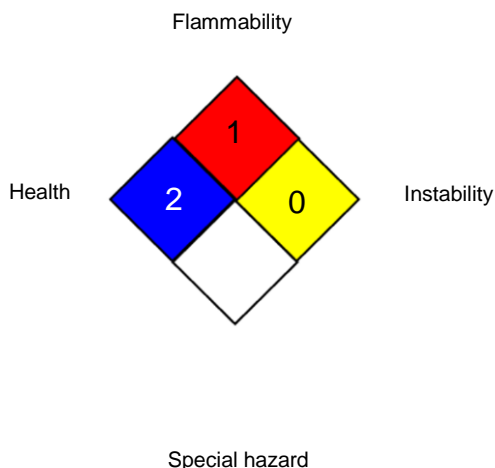
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

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

SAFETY DATA SHEET

CALCINATE™ C-300R



Version	Revision Date:	SDS Number:	Date of last issue: 02/08/2021
3.0	03/19/2024	203000017553	Country / Language: US / EN

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 : 03/19/2024

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.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.