# SAFETY DATA SHEET

# HYBASE C-311

| Version | Revision Date: | SDS Number: | Date of last issue: 09/30/2020 |
|---|---|---|---|
| 2.0 | 02/08/2021 | 203000018229 | Country / Language: US / EN |

## SECTION 1. IDENTIFICATION

Product name : HYBASE C-311

Product code : 000000000062495758

**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.

**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

**Components**

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|---|---|
| Distillates (petroleum), solvent-refined heavy paraffinic | 64741-88-4 | >= 30 - < 50 |
| 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 |
| calcium dihydroxide | 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 : Obtain medical attention.
Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

Symptoms : Eye: Causes irritation with symptoms of reddening, tearing, stinging, 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 : 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 allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon monoxide
Carbon dioxide (CO2)
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.

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 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 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.
Empty containers retain residue and can be dangerous.
Do not reuse container.

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-refined heavy paraffinic | 64741-88-4 | TWA (Mist) | 5 mg/m3 | OSHA Z-1 |

| | | | | |
|---|---|---|---|---|
| | | TWA (Inhalable particulate matter) | 5 mg/m3 | ACGIH |
| calcium dihydroxide | 1305-62-0 | TWA | 5 mg/m3 | ACGIH |
| | | TWA (total dust) | 15 mg/m3 | OSHA Z-1 |
| | | TWA (respirable fraction) | 5 mg/m3 | 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 : NIOSH approved, air-purifying particulate respirator with N-95 filters.

Hand protection

Remarks : Impervious gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Impervious clothing

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 | : | No data available |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flash point | : | > 356 °F / 180 °C<br>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 | : | < 0.0008 hPa (68 °F / 20 °C) |
| 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.<br>Contamination |
| Incompatible materials | : | Oxidizing agents |
| Hazardous decomposition products | : | Carbon oxides<br>Sulfur oxides<br>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<br>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<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Assessment: The substance or mixture has no acute inhalation toxicity |

Remarks: Dosage caused no mortality

**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

**calcium dihydroxide:**

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

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

Species : Rabbit
Result : No skin irritation

**calcium dihydroxide:**

Species : Rabbit
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

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

Species : Rabbit
Result : No eye irritation

**calcium dihydroxide:**

Species : Rabbit
Result : Risk of serious damage to eyes.
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.

**Components:**

**Distillates (petroleum), solvent-refined heavy paraffinic:**

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

**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. |

**calcium dihydroxide:**

| | | |
|---|---|---|
| Remarks | : | Did not cause sensitization on laboratory animals. |

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**Distillates (petroleum), solvent-refined heavy paraffinic:**

| | | |
|---|---|---|
| Genotoxicity in vitro | : | Test system: Bacteria<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 471<br>Result: negative |

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

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

**calcium dihydroxide:**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Ames test

Test system: Escherichia coli
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

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

**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) |

**calcium dihydroxide:**

| | | |
|---|---|---|
| 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<br>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

**calcium dihydroxide:**

Effects on fetal development : Species: Rat, female
General Toxicity Maternal: NOAEL: 680 mg/kg body weight
Embryo-fetal toxicity.: NOAEL: >= 680 mg/kg body weight
Method: OECD Test Guideline 414
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), solvent-refined heavy paraffinic:**

Assessment : May cause respiratory irritation.

**calcium dihydroxide:**

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

**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<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 1,000 mg/l<br>Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | EC50 (Desmodesmus subspicatus (green algae)): > 1,000 mg/l<br>Exposure time: 96 h |

**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

**calcium dihydroxide:**

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

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

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): 184.57 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water

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

Toxicity to microorganisms : EC50 (activated sludge): 300.4 mg/l
End point: Respiration inhibition
Exposure time: 3 h

Method: OECD Test Guideline 209
GLP: yes
Remarks: Fresh water

**Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

**Persistence and degradability**

**Product:**

Biodegradability : Result: No data available

**Components:**

**Distillates (petroleum), solvent-refined heavy paraffinic:**

Biodegradability : Result: Not readily biodegradable.

**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

**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

**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** : 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**

| | | |
|---|---|---|
| Distillates (petroleum), solvent-refined heavy paraffinic | 64741-88-4 | 30 - 50 |
| calcium dihydroxide | 1305-62-0 | 1 - 5 |

**Pennsylvania Right To Know**

| | | |
|---|---|---|
| Distillates (petroleum), solvent-refined heavy paraffinic | 64741-88-4 | 30 - 50 |
| calcium carbonate | 471-34-1 | > 1 |
| 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 |
| calcium dihydroxide | 1305-62-0 | 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

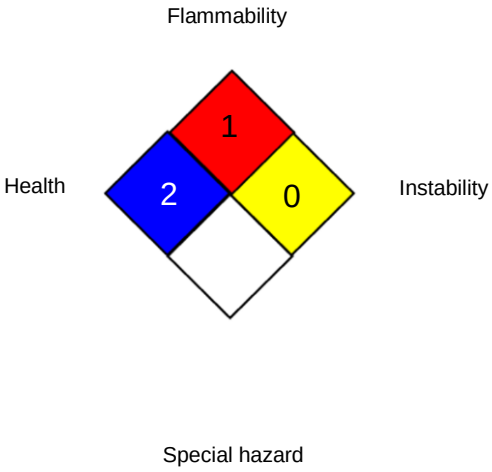
**TSCA list**
No substances are subject to a Significant New Use Rule.

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

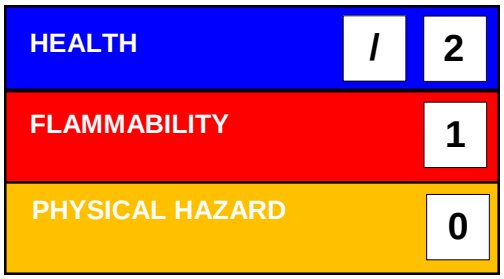
## SECTION 16. OTHER INFORMATION

### 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) Ef-

fect 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.