

# SAFETY DATA SHEET



## CALCINATE™ OTS

Version: 1.6

Revision Date: 09/04/2018

Print Date: 03/12/2019

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: CALCINATE™ OTS

Product Use Description: Additive

Synonyms: calcium sulfonate detergent additive

Company: LANXESS Solutions US Inc.  
2 Armstrong Road  
Shelton, Ct  
06484  
United States of America (USA)  
  
Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300  
:  
: US : 800-292-5898 (Technical inquiries)

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

Prepared by Product Safety Department  
(US) +1 866-430-2775  
  
MSDSRequest@lanxess.com

Recommended use of the chemical and restrictions on use

Recommended use : Additive

Restrictions on use : Restricted to professional users.

### SECTION 2. HAZARDS IDENTIFICATION

Form	viscous liquid
Colour	brown
Odour	oily

#### GHS Classification

Eye irritation : Category 2A

#### GHS label elements

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Signal word : **Warning**

Hazard pictograms : 

Hazard statements : H319 Causes serious eye irritation.

Other hazards : None

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P280 Wear eye protection/ face protection.  
**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

### Carcinogenicity:

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

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous components

Chemical name	CAS-No.	Concentration (%)
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	>= 30 - < 50 %
calcium carbonate	471-34-1	>= 20 - < 30 %
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 10 - < 20 %
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	>= 10 - < 20 %
Sulfonic acids, petroleum, calcium salts	61789-86-4	>= 5 - < 10 %
calcium dihydroxide	1305-62-0	>= 1 - < 2.5 %

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### SECTION 4. FIRST AID MEASURES

- If inhaled : Remove to fresh air.  
Give oxygen or artificial respiration if needed.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off with warm water and soap.  
Cool skin rapidly with cold water after contact with molten material.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Aspiration may cause pulmonary oedema and pneumonitis.  
If symptoms persist, call a physician or Poison Control Centre immediately.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : irritant effects
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : (on small fires)  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Dry sand  
Extinguishing media - large fires  
Foam  
Water mist
- Unsuitable extinguishing media : Water spray jet
- Specific hazards during firefighting : 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.

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Specific extinguishing methods : Cool containers/tanks with water spray.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for firefighters : Self-contained breathing apparatus with full face-piece operated in positive pressure mode.  
Body covering protective clothing, full "turn-out" gear.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Wear suitable protective clothing, gloves and eye/face protection.  
Material can create slippery conditions.

Environmental precautions : Do not allow contact with soil, surface or ground water.  
Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Ventilate the area. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers.  
Large spills should be collected mechanically (remove by pumping) for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
Use only in well-ventilated areas.  
Remove all sources of ignition.  
Ensure all equipment is electrically grounded before beginning transfer operations.

Conditions for safe storage : Keep only in the original container in a cool, well ventilated place away from oxidizing agents.  
Keep away from fire, sparks and heated surfaces.  
Protect from contamination.

Materials to avoid : Oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	TWA	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA P0
		PEL (particulate)	5 mg/m <sup>3</sup>	CAL PEL
calcium carbonate	471-34-1	PEL (Total dust)	10 mg/m <sup>3</sup>	CAL PEL
		PEL (respirable dust fraction)	5 mg/m <sup>3</sup>	CAL PEL
		TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL
calcium dihydroxide	1305-62-0	TWA	5 mg/m <sup>3</sup>	ACGIH
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA	5 mg/m <sup>3</sup>	OSHA P0
		TWA	5 mg/m <sup>3</sup>	NIOSH REL
		PEL	5 mg/m <sup>3</sup>	CAL PEL

**Engineering measures** : Use with adequate ventilation.

**Personal protective equipment**

Respiratory protection : not required under normal use  
 In the case of vapour formation use a respirator with an approved filter.  
 Respirator with combination filter for vapour/particulate (EN 141)

Hand protection  
 Remarks : PVC or other plastic material gloves Neoprene gloves When handling hot material, use heat resistant gloves.

Eye protection : Safety goggles

Skin and body protection : Long sleeved clothing

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Remove and wash contaminated clothing before re-use.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Avoid contact with skin, eyes and clothing.  
Avoid breathing vapours, mist or gas.  
Wash hands before breaks and at the end of workday.  
Keep away from food and drink.  
When working with hot material, avoid contact with skin.  
Remove and wash contaminated clothing before re-use.  
Keep working clothes separately.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Color : brown

Odor : oily

Odour Threshold : No data available

pH : No data available

Melting point/range :  
No data available

Boiling point/boiling range : No data available

Evaporation rate : No data available

Flash point : 220 °C  
Method: Cleveland open cup ASTM D 92

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 0.008 hPa (20 °C)

Relative vapour density : No data available

Relative density : No data available

Density : > 1 g/cm<sup>3</sup> (25 °C)

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : partly soluble  
Solvent: Organic solvents

Partition coefficient: n- : No data available

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octanol/water

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : > 30 mm<sup>2</sup>/s (40 °C)

Molecular weight : No data available

### SECTION 10. STABILITY AND REACTIVITY

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

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : Will not occur.  
Stable under normal conditions.

Conditions to avoid : Exposure to moisture  
Contamination

Incompatible materials : Oxidizing agents

Hazardous decomposition products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).  
Sulphur oxides  
Oxides of calcium

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 Oral (Rat): > 20 g/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:

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### calcium carbonate:

Acute oral toxicity : LD50 (Rat): 6,450 mg/kg

### Sulfonic acids, petroleum, calcium salts:

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

Acute dermal toxicity : LD50 (Rabbit, male and female): > 4,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### calcium dihydroxide:

Acute oral toxicity : LD50 (Rat): 7,340 mg/kg

### Skin corrosion/irritation

#### Product:

Remarks: Not classified due to lack of data.

#### Components:

##### calcium carbonate:

Species: Rabbit  
Result: No skin irritation

##### calcium dihydroxide:

Result: Irritating to skin.

### Serious eye damage/eye irritation

#### Components:

##### calcium carbonate:

Species: Rabbit  
Result: No eye irritation

##### calcium dihydroxide:

Species: Rabbit  
Result: Risk of serious damage to eyes.  
Method: Draize Test

### Respiratory or skin sensitisation

#### Product:

Result: Does not cause skin sensitisation.

#### Components:

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

Result: Probability or evidence of low to moderate skin sensitisation rate in humans

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



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Result: Probability or evidence of low to moderate skin sensitisation rate in humans

**Sulfonic acids, petroleum, calcium salts:**

Result: Probability or evidence of low to moderate skin sensitisation rate in humans

**calcium dihydroxide:**

Assessment: Did not cause sensitisation on laboratory animals.

**Carcinogenicity**

**IARC**

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

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

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

**Reproductive toxicity**

**Components:**

**calcium carbonate:**

Effects on fertility

:

Species: Rat  
Application Route: Oral

Reproductive toxicity -  
Assessment

:

No toxicity to reproduction  
No effects on or via lactation

**STOT - single exposure**

**Components:**

**calcium dihydroxide:**

Assessment: May cause respiratory irritation.

**Aspiration toxicity**

**Product:**

No aspiration toxicity classification

**Further information**

**Product:**

Remarks: No data is available on the product itself.

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Product:

Toxicity to fish :  
Remarks: No data available

#### Ecotoxicology Assessment

##### Components:

##### **Sulfonic acids, petroleum, calcium salts:**

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : EbC50 (Green algae (Scenedesmus subspicatus)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes

ErC50 (Green algae (Scenedesmus subspicatus)): > 100 mg/l  
Exposure time:  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes

##### **calcium dihydroxide:**

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 160 mg/l  
Exposure time: 96 h  
Test Type: static test

#### Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

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### Persistence and degradability

#### Product:

Biodegradability : Result: No data available

Impact on Sewage Treatment : May be separated mechanically in waste water plants.

#### Components:

##### **Sulfonic acids, petroleum, calcium salts:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 8.6 %  
Exposure time: 28 d  
GLP: yes

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### Mobility in soil

#### Product:

Mobility : Remarks: No data available

### Other adverse effects

#### Product:

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information : No information on ecology is available.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of waste product or used containers according to local regulations.  
Waste must be classified and labelled prior to recycling or disposal.  
Do not dispose of waste into sewer.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### 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.

#### National Regulations

##### 49 CFR

Not regulated as a dangerous good

Not classified as dangerous in the meaning of transport regulations.

### SECTION 15. REGULATORY INFORMATION

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

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
naphthalene	91-20-3	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### SARA304 Reportable Quantity

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

**SARA 311/312 Hazards** : Serious eye damage or eye irritation

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

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

#### US State Regulations

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### 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](http://www.P65Warnings.ca.gov).

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

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

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

## SECTION 16. OTHER INFORMATION

### Further information

#### Other Emergency Phone Number

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

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