

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : CALCINATE™ C-400 W

Product code : 00000000058310564

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 number : 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 : Lubricant

SECTION 2. HAZARDS IDENTIFICATION

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

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

GHS label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : May cause respiratory irritation.

Precautionary statements : **Prevention:**
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Use only outdoors or in a well-ventilated area.
Response:
IF INHALED: Remove person to fresh air and keep comfortable

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

for breathing. Call a POISON CENTER/ doctor if you feel unwell.

Storage:

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

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	>= 30 - < 50
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	>= 10 - < 20
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 5 - < 10
Sulfonic acids, petroleum, calcium salts	61789-86-4	>= 1 - < 5
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	>= 1 - < 5

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

SECTION 4. FIRST AID MEASURES

- If inhaled : If inhaled, remove to fresh air. If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and plenty of water. In the event of a high pressure injection injury, worker should obtain immediate medical assistance.
- In case of eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If swallowed : Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physi-

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

cian or poison control center.
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

- Symptoms : May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
- Effects : May cause respiratory irritation.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂)
Dry chemical
Dry sand
Extinguishing media - large fires
Water mist
Foam
- 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 firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Evacuate personnel to safe areas.
Material can create slippery conditions.

SAFETY DATA SHEET



CALCINATE™ C-400 W

Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

Environmental precautions : No special environmental precautions required.
Avoid release to the environment.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.
No special handling advice required.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Protect from moisture.

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

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components 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/m ³	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH

Engineering measures : This information is not available.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
In the case of vapour formation use a respirator with an approved filter.

Hand protection

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

Remarks : For prolonged or repeated contact use protective gloves.
Eye protection : Tightly fitting safety goggles
Skin and body protection : Wear suitable protective clothing.
Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid
Colour : brown
Odour : hydrocarbon-like
Odour Threshold : No data available
pH : No data available
Melting point/freezing point : No data available
Boiling point/boiling range : No data available
Flash point : > 356 °F / 180 °C
Method: open cup
Evaporation rate : No data available
Self-ignition : No data available
Burning number : No data available
Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : No data available
Vapour pressure : < 0.0008 hPa (68 °F / 20 °C)
Relative density : 1.15 (61 °F / 16 °C)
Density : No data available
Solubility(ies)
Water solubility : negligible

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

 Viscosity, dynamic : > 20,000 mPa.s (77 °F / 25 °C)
 Method: ASTM D 2196

 Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

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

Possibility of hazardous reactions : No hazards to be specially mentioned.

Conditions to avoid : Continuous exposure to moist air
Heat, flames and sparks.
Extremes of temperature and direct sunlight.
Contamination

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
Metal oxides
Nitrogen oxides (NOx)
Sulphur 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

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Remarks: No data available
Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 12.55 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

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

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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

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

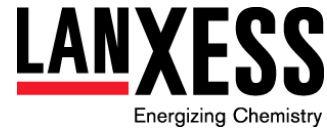
Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Test results on an analogous product

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

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

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

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

Sulfonic acids, petroleum, calcium salts:

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 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

Skin corrosion/irritation

Not classified based on available information.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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

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

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

Sulfonic acids, petroleum, calcium salts:

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

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

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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

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

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

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

Sulfonic acids, petroleum, calcium salts:

Species : Rabbit
Result : No eye irritation

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

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Result : Does not cause skin sensitisation.

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

Exposure routes : Skin contact
Species : Guinea pig
Result : Did not cause sensitisation on laboratory animals.

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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

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

Exposure routes : Dermal
Species : Guinea pig
Result : The product is a skin sensitiser, sub-category 1B.

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Result : The product is a skin sensitiser, sub-category 1B.

Sulfonic acids, petroleum, calcium salts:

Exposure routes : Dermal

SAFETY DATA SHEET



CALCINATE™ C-400 W

Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

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)
Exposure routes : Dermal
Species : Mouse
Method : OECD Test Guideline 429
Result : The product is a skin sensitiser, sub-category 1B.

Germ cell mutagenicity

Not classified based on available information.

Product:

Germ cell mutagenicity - Assessment : No data available

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

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

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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

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

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

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

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

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

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

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

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

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

Sulfonic acids, petroleum, 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
Remarks: Test results on an analogous product

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

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

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

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

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

Carcinogenicity

Not classified based on available information.

Product:

Carcinogenicity - Assessment : No data available

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

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

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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

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

SAFETY DATA SHEET



CALCINATE™ C-400 W

Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

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

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

Not classified based on available information.

Product:

Reproductive toxicity - Assessment : No data available

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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

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

SAFETY DATA SHEET



CALCINATE™ C-400 W

Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

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

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

STOT - single exposure

May cause respiratory irritation.

Product:

Remarks : No data available

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

Assessment : May cause respiratory irritation.

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Product:

Remarks : No data available

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

SAFETY DATA SHEET



CALCINATE™ C-400 W

Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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

Species : Rat, male and female
NOAEC : >= 1 mg/l
Application Route : inhalation (dust/mist/fume)
Exposure time : 20 d
Number of exposures : 6 hours/day
Dose : 0 - 0.05 - 0,22
Method : OECD Test Guideline 412
GLP : No information available.
Remarks : Subacute toxicity
Test results on an analogous product

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

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

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

Aspiration toxicity

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SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

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

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

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

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: nominal concentration
Test results on an analogous product water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: No information available.
Remarks: nominal concentration
Test results on an analogous product water extractable fraction

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: No information available.
Remarks: nominal concentration
Test results on an analogous product

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

water extractable fraction

NOELR (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l

Exposure time: 72 h

Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: No information available.

Remarks: nominal concentration

Test results on an analogous product

water extractable fraction

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 10 mg/l
End point: Reproduction

Exposure time: 21 d

Analytical monitoring: no

Method: OECD Test Guideline 211

GLP: yes

Remarks: nominal concentration

Test results on an analogous product

water extractable fraction

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

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

End point: mortality

Exposure time: 96 h

Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: yes

Remarks: water extractable fraction

Test results on an analogous product

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l

End point: Immobilization

Exposure time: 48 h

Analytical monitoring: yes

Method: OPPTS 797.1300

GLP: yes

Remarks: water extractable fraction

Test results on an analogous product

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

End point: Growth rate

Exposure time: 96 h

Analytical monitoring: yes

Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)

GLP: yes

Remarks: water extractable fraction

Test results on an analogous product

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

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

Sulfonic acids, petroleum, 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

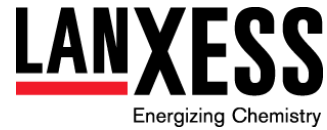
Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): $> 1,000$ mg/l
End point: Immobilization
Exposure time: 48 h
Method: OPPTS 797.1300
Remarks: water extractable fraction

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

SAFETY DATA SHEET



CALCINATE™ C-400 W

Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

Remarks: water extractable fraction

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

- Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l
End point: mortality
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: water extractable fraction
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l
End point: Immobilization
Exposure time: 48 h
Method: OPPTS 797.1300
Remarks: water extractable fraction
Test results on an analogous product
- Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (microalgae)): > 1,000 mg/l
End point: Growth rate
Exposure time: 96 h
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)
Remarks: water extractable fraction
Test results on an analogous product
- NOEC (Pseudokirchneriella subcapitata (microalgae)): 1,000 mg/l
Exposure time: 96 h
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)
Remarks: water extractable fraction
Test results on an analogous product
- Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Method: OECD Test Guideline 209

Persistence and degradability

Components:

Distillates (petroleum), solvent-refined heavy paraffinic:

Biodegradability : Result: Not readily biodegradable.

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Biodegradability : aerobic
Concentration: 44 mg/l
Result: Inherently biodegradable.
Biodegradation: 31 %
Exposure time: 28 d

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

Method: OECD Test Guideline 301F
GLP: yes

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

Sulfonic acids, petroleum, 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
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

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor- : No data available

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1	Revision Date: 10/07/2020	SDS Number: 203000018200	Date of last issue: 10/01/2020 Country / Language: US / EN
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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.

National Regulations

49 CFR

Not regulated as a dangerous good

Hazard and Handling Notes. : Not dangerous cargo, Keep separated from foodstuffs

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

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

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

US State Regulations

Massachusetts Right To Know

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

Pennsylvania Right To Know

Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	>= 30 - < 50
calcium carbonate	471-34-1	>= 20 - < 30
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	>= 10 - < 20
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 5 - < 10
Sulfonic acids, petroleum, calcium salts	61789-86-4	>= 1 - < 5

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

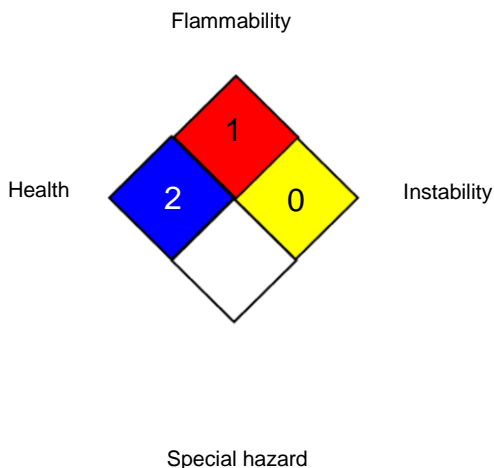
SAFETY DATA SHEET

CALCINATE™ C-400 W



Version 1.1 Revision Date: 10/07/2020 SDS Number: 203000018200 Date of last issue: 10/01/2020
Country / Language: US / EN

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

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances;

SAFETY DATA SHEET

CALCINATE™ C-400 W



Version	Revision Date:	SDS Number:	Date of last issue: 10/01/2020
1.1	10/07/2020	203000018200	Country / Language: US / EN

(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 : 10/07/2020

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.