

# SAFETY DATA SHEET



## G-2181-2

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: G-2181-2

Product Use Description: Lubricant

Synonyms: Calcium Sulfonate grease

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 : Lubricant

Restrictions on use : For industrial use only.

### SECTION 2. HAZARDS IDENTIFICATION

Form	paste
Colour	brown
Odour	mild hydrocarbon-like

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS label elements

# SAFETY DATA SHEET



**G-2181-2**

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

Other hazards : None

Not a hazardous substance or mixture.

## 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 (%)
Residual oils (petroleum), solvent deasphalted	64741-95-3	>= 30 - < 50 %
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	>= 20 - < 30 %
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>= 10 - < 20 %
calcium carbonate	471-34-1	>= 10 - < 20 %
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 1 - < 5 %
calcium dodecylbenzenesulphonate	26264-06-2	>= 1 - < 3 %
bis(nonylphenyl)amine	36878-20-3	>= 1 - < 2.5 %
Sulfonic acids, petroleum, calcium salts	61789-86-4	>= 1 - < 5 %
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	>= 1 - < 5 %

## SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.  
If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.

# SAFETY DATA SHEET



**G-2181-2**

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

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 : Water mist  
Dry powder  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry sand

Specific hazards during firefighting : Burning produces noxious and toxic fumes.

Specific extinguishing methods : Standard procedure for chemical fires.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Full protective flameproof clothing

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.  
Use personal protective equipment.

Environmental precautions : Avoid release to the environment.

Methods and materials for containment and cleaning up : Scrape up. 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

# SAFETY DATA SHEET



## G-2181-2

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

place.

Materials to avoid : Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Residual oils (petroleum), solvent deasphalted	64741-95-3	TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
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
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	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)
		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

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

# SAFETY DATA SHEET



## G-2181-2

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

### Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection  
Remarks : Neoprene gloves
- Eye protection : Tightly fitting safety goggles
- Skin and body protection : Impervious clothing
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste
- Color : brown
- Odor : mild hydrocarbon-like
- Odour Threshold : No data available
- pH : Not applicable
- Melting point/range :  
No data available
- Boiling point/boiling range : Not applicable
- Evaporation rate : Not applicable
- Flash point : > 180 °C  
Method: closed cup
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : Not applicable
- Relative vapour density : Not applicable
- Relative density : 0.95 - 1.05 (25 °C)
- Density : 0.95 - 1.05 g/cm<sup>3</sup> (25 °C)
- Solubility(ies)
- Water solubility : negligible
- Solubility in other solvents : partly soluble

# SAFETY DATA SHEET



**G-2181-2**

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

Solvent: Hydrocarbons

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

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : Not applicable

Molecular weight : 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 : Hazardous polymerisation does not occur.

Conditions to avoid : Contamination

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Sulphur oxides  
Carbon oxides

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Product:

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

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

#### Components:

##### **calcium carbonate:**

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

# SAFETY DATA SHEET



## G-2181-2

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

### **calcium dodecylbenzenesulphonate:**

Acute oral toxicity : LD50 Oral (Rat): 1,300 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 4,199 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

### **bis(nonylphenyl)amine:**

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

LD50 (Rat): > 16,000 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

### **Skin corrosion/irritation**

#### **Product:**

Result: No skin irritation

Remarks: Information given is based on data obtained from similar substances.

#### **Components:**

##### **calcium carbonate:**

Species: Rabbit

Result: No skin irritation

##### **calcium dodecylbenzenesulphonate:**

Species: Rabbit

Exposure time: 4 h

Result: Skin irritation

Remarks: Information given is based on data obtained from similar substances.

##### **bis(nonylphenyl)amine:**

Species: Rabbit

Result: No skin irritation

### **Serious eye damage/eye irritation**

#### **Product:**

Result: No eye irritation

Remarks: Information given is based on data obtained from similar substances.

#### **Components:**

##### **calcium carbonate:**

# SAFETY DATA SHEET



**G-2181-2**

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

Species: Rabbit  
Result: No eye irritation

**calcium dodecylbenzenesulphonate:**

Species: Rabbit  
Result: Risk of serious damage to eyes.  
Remarks: Information given is based on data obtained from similar substances.

**bis(nonylphenyl)amine:**

Species: Rabbit  
Result: No eye irritation

**Respiratory or skin sensitisation**

**Product:**

Result: Does not cause skin sensitisation.  
Remarks: Information given is based on data obtained from similar substances.

**Components:**

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

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

**bis(nonylphenyl)amine:**

Species: Guinea pig  
Assessment: Did not cause sensitisation on laboratory animals.  
Result: Did not cause sensitisation on laboratory animals.

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

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

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

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

**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 :



# SAFETY DATA SHEET



**G-2181-2**

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

Species: Rat  
Application Route: Oral

Reproductive toxicity - Assessment : No toxicity to reproduction  
No effects on or via lactation

## Aspiration toxicity

### Product:

No aspiration toxicity classification

## Further information

### Product:

Remarks: The product itself has not been tested.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish :  
Remarks: No data available

#### Components:

##### **calcium dodecylbenzenesulphonate:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 22 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: no  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: no  
Remarks: Information given is based on data obtained from similar substances.

##### **bis(nonylphenyl)amine:**

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): > 1,000 mg/l

# SAFETY DATA SHEET



## G-2181-2

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l  
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): > 10,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Crangon crangon (shrimp)): 14 - 28 mg/l  
Exposure time: 96 h

LC50 (Crangon crangon (shrimp)): 18.9 - 39.2 mg/l  
Exposure time: 96 h

LC50 (Crangon crangon (shrimp)): 463 - 631 mg/l  
Exposure time: 96 h

### 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

### Persistence and degradability

#### Product:

Biodegradability : Result: No data available

# SAFETY DATA SHEET



**G-2181-2**

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

## Components:

### **calcium dodecylbenzenesulphonate:**

Biodegradability : Concentration: 10 mg/l  
Result: Readily biodegradable.  
Testing period: 28 d  
Kinetic:  
28 d: 73 %  
Remarks: Information given is based on data obtained from similar substances.

### **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

## Components:

### **calcium dodecylbenzenesulphonate:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 104  
Exposure time: 21 d  
GLP: no

Partition coefficient: n-octanol/water : Pow: 4.77 (77 °F / 25 °C)  
Method: calculated

## **Mobility in soil**

### Product:

Mobility : Remarks: No data available

## **Other adverse effects**

### Product:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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

# SAFETY DATA SHEET



**G-2181-2**

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Waste from residues : Dispose of as hazardous waste in compliance with local and national regulations.  
Dispose of wastes in an approved waste disposal facility.
- Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 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

## 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)
calcium dodecylbenzenesulphonate	26264-06-2	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA304 Reportable Quantity

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

# SAFETY DATA SHEET



**G-2181-2**

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

- SARA 311/312 Hazards** : No SARA Hazards
- SARA 302** : This material does not contain any components with a section 302 EHS TPQ.
- 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

### 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.

**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:

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

# SAFETY DATA SHEET



**G-2181-2**

Version: 1.9

Revision Date: 09/04/2018

Print Date: 10/15/2020

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.