

SAFETY DATA SHEET



G-2234-2

Version: 1.9

Revision Date: 09/04/2018

Print Date: 03/02/2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: G-2234-2

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 : Restricted to professional users.

SECTION 2. HAZARDS IDENTIFICATION

| | |
|--------|-----------------------|
| Form | paste |
| Colour | tan |
| Odour | mild hydrocarbon-like |

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

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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 (%) |
|---|------------|-------------------|
| White mineral oil (petroleum) | 8042-47-5 | >= 50 - < 70 % |
| Distillates (petroleum), solvent-refined heavy paraffinic | 64741-88-4 | >= 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 % |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 68411-46-1 | >= 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 : Remove to fresh air.
Aspiration may cause pulmonary oedema and pneumonitis.
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.
If skin irritation persists, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,
for at least 15 minutes.
Get medical attention.

If swallowed : Rinse mouth.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

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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 : Carbon dioxide (CO₂)
Dry chemical
Dry sand
Extinguishing media - large fires
Foam
Water mist

Unsuitable extinguishing media : High volume water jet

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

Specific extinguishing methods : Cool containers/tanks with water spray.

Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Clean-up methods - large spillage Dam up. Large spills should be collected mechanically (remove by pumping) for disposal. 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).

SECTION 7. HANDLING AND STORAGE

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Advice on safe handling : Keep tightly closed.
Protect from contamination.
Avoid contact with skin, eyes and clothing.
Wear suitable protective equipment.

Conditions for safe storage : Keep containers tightly closed in a cool, well-ventilated place.

Materials to avoid : Acids, Bases, Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Form of exposure | Permissible concentration | Basis |
|---|------------|--------------------------------|---------------------------|-----------|
| White mineral oil (petroleum) | 8042-47-5 | TWA (Mist) | 5 mg/m3 | OSHA Z-1 |
| | | TWA (Inhalable fraction) | 5 mg/m3 | ACGIH |
| | | TWA (Mist) | 5 mg/m3 | OSHA P0 |
| | | TWA (Mist) | 5 mg/m3 | NIOSH REL |
| | | ST (Mist) | 10 mg/m3 | NIOSH REL |
| | | PEL (particulate) | 5 mg/m3 | CAL PEL |
| Distillates (petroleum), solvent-refined heavy paraffinic | 64741-88-4 | TWA | 5 mg/m3 | OSHA Z-1 |
| | | TWA (Mist) | 5 mg/m3 | OSHA Z-1 |
| | | TWA (Inhalable fraction) | 5 mg/m3 | ACGIH |
| | | TWA (Mist) | 5 mg/m3 | NIOSH REL |
| | | ST (Mist) | 10 mg/m3 | NIOSH REL |
| | | TWA (Mist) | 5 mg/m3 | OSHA P0 |
| calcium carbonate | 471-34-1 | PEL (Total dust) | 10 mg/m3 | CAL PEL |
| | | PEL (respirable dust fraction) | 5 mg/m3 | CAL PEL |
| | | TWA (Respirable) | 5 mg/m3 | NIOSH REL |
| | | TWA (total) | 10 mg/m3 | NIOSH REL |

Engineering measures : Effective exhaust ventilation system
Ensure that eyewash stations and safety showers are close to

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the workstation location.

Personal protective equipment

- Respiratory protection : Respirator with filter for organic vapour
- Hand protection
Remarks : Impervious butyl rubber gloves Replace when worn.
- Eye protection : Safety glasses with side-shields conforming to EN166
Safety goggles
- Skin and body protection : Impervious clothing
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste
- Color : tan
- Odor : mild hydrocarbon-like
- Odour Threshold : No data available
- pH : Not applicable
- Melting point/freezing point :
Not applicable
- Boiling point/boiling range : Not applicable
- Evaporation rate : not determined
- Flash point : > 180 °C
Method: Cleveland open cup
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : < 0.0008 hPa (20 °C)
- Relative vapour density : No data available
- Relative density : 0.95 - 1.05 (25 °C)
- Density : 0.95 - 1.05 g/cm³ (25 °C)

Solubility(ies)

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Water solubility : negligible
Solubility in other solvents : partly soluble
Solvent: Organic solvents

Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Thermal decomposition : No data available

Viscosity
Viscosity, dynamic : Not applicable
Viscosity, kinematic : Not applicable

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 normally.
Possibility of hazardous reactions : Hazardous polymerisation does not occur.
Conditions to avoid : Exposure to moisture
Contamination

Incompatible materials : Acids
Bases
Oxidizing agents

Hazardous decomposition products : Carbon oxides
Metal oxides
Sulphur oxides
Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

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

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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

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.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

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

Acute dermal toxicity : LD50 (Rat): > 2,000 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.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species: Rabbit

Method: OECD Test Guideline 404

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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:

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.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

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

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

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

Germ cell mutagenicity

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Germ cell mutagenicity - : Not mutagenic in Ames Test

Assessment

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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

Aspiration toxicity

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

Toxicity to daphnia and other
aquatic invertebrates

:

Remarks: No data available

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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.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 71 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 51 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae : EbC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

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

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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

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.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Biodegradability : Result: According to the results of tests of biodegradability this product is not readily biodegradable.
Method: CO2 Evolution Test

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)

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Bioconcentration factor (BCF): 104

Exposure time: 21 d

GLP: no

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

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Partition coefficient: n-octanol/water : log Pow: > 7

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 : The product itself has not been tested.

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Additional ecological information : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Do not allow material to contaminate ground water system.
Do not flush into surface water or sanitary sewer system.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

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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) |
|----------------------------------|------------|--------------------|-----------------------------|
| 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.

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.

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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.