

Safety Data Sheet

Trade name : **Thread lubricant C100**
 Part number : **214-231**

Revision date : 08.11.2022
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 Version : 008.0

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Thread lubricant C100 / LOCTITE known as Heavy Duty Anti-Seize

1.2 Relevant identified uses of the substance or mixture and uses advised against relevant identified uses (Product categories [PC])

Product type: Antiseize
 Restriction of Use: None identified

1.3 Details of the supplier of the safety data sheet

Supplier: INFICON AG
 Street: Alte Landstrasse 6
 Postal code/city: LI-9496 Balzers
 Phone: 00423 / 388 3111
 E-Mail: reach.liechtenstein@inficon.com

1.4 Emergency Telephone Number (worldwide)

Tox Info Suisse +41 44 251 51 51 (24 hours)

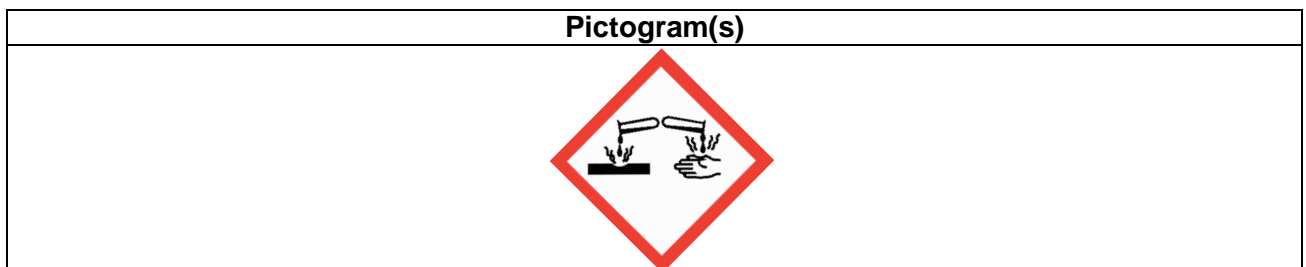
2 Hazards identification

Emergency overview

DANGER:

CAUSES SKIN IRRITATION
 CAUSES SERIOUS EYE DAMAGE

Hazard class	Hazard category
Skin irritation	2
Eye irritation	1



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Precautionary Statements

Prevention

Wash affected area thoroughly after handling. Wear protective gloves, eye protection and face protection.

Response

IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical attention. Take off contaminated clothing.

Storage:

Not prescribed

Disposal:

Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3 Composition/information on ingredients

3.1 Mixtures

Hazardous Component(s)	CAS Number	Percentage*
Calcium fluoride	7789-75-5	10 – 30
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3 % DMSO	64742-65-0	10 – 30
Graphite	7782-42-5	10 – 30
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5 – 10
Petroleum distillates, hydrotreated, light naphthenic	64742-53-6	5 – 10
Calcium dodecylbenzene sulfonate	26264-06-2	1 – 5
Calcium distearate	1592-23-0	5 - 10
Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	1 - 5
Diboron calcium tetraoxide	13701-64-9	1 - 5
Calcium dihydroxide	1305-62-0	1 - 5

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

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4 First aid measures

4.1 Description of first aid measures

After inhalation

Move to fresh air. If symptoms persist, seek medical advice.

In case of skin contact

Wash with soap and water. If symptoms develop and persist, get medical attention.

After eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

After ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Symptoms

See section 11.

5 Firefighting measures

5.1 Extinguishing media

Water spray (fog), foam, dry chemical or carbon dioxide.

5.2 Special firefighting procedures

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

5.3 Unusual fire or explosion hazards

Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

5.4 Hazardous combustion products

Oxides of carbon. Toxic and irritating vapors. Traces of Oxides of sulphur. May release trace quantities of fluoride.

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6 Accidental release measures

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1 Environmental precautions

Do not allow material to contaminate ground water system.

6.2 Methods and material for containment and cleaning up

Scrape up as much material as possible. Clean residue with soap and water. Follow all local, state, federal and provincial regulations for disposal.

7 Handling and storage

7.1 Handling

Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

7.2 Storage

Keep in a cool, well ventilated area.

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8 Exposure controls/personal protection

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Calcium fluoride	2.5 mg/m ³ TWA (as F)	2.5 mg/m ³ PEL (as F) 2.5 mg/m ³ TWA Dust	None	None
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3 % DMSO	5mg/m ³ TWA inhalable fraction.	500 ppm (2,000 mg/m ³) PEL 5 mg/m ³ PEL Mist.	None	None
Graphite	2 mg/m ³ TWA Respirable fraction	5 mg/m ³ PEL Respirable fraction. 15 mg/m ³ PEL Total dust.	None	None
Calcium distearate	3 mg/m ³ TWA Respirable fraction 10 mg/m ³ TWA inhalable fraction.	None	None	None
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m ³ TWA mist Inhalable fraction	5 mg/m ³ PEL Mist. 500 ppm (2,000 mg/m ³) PEL	None	None
Petroleum distillates, hydrotreated, light naphthenic	5 mg/m ³ TWA Inhalable fraction.	5 mg/m ³ PEL Mist. 500 ppm (2.000 mg/m ³) PEL	None	None
Benzenesulfonic acid, C10-16-alkyl derivs	None	None	None	noen
Calcium dodecylbenzene sulfonate	None	None	None	None
Diboron calcium tetraoxide	6 mg/m ³ STEL Inhalable fraction 2 mg/m ³ TWA Inhalable fraction	None	None	None
Calcium dihydroxide	5 mg/m ³ TWA	5 mg/m ³ PEL Respirable fraction 15 mg/m ³ PEL Total dust. 50 MPPCF TWA Total dust. 5mg/m ³ TWA Respirable fraction. 15 MPPCF TWA Respirable fraction 15 mg/m ³ TWA Total dust.	None	None

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Engineering controls

Use only with adequate ventilation. Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Respiratory protection

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin protection

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	paste
Color:	Gray
Odor:	characteristic
Odor threshold:	Not available.
pH:	Not applicable
Vapor pressure:	Not available
Boiling point/range:	288 °C (550.4 °F) None
Melting point/ range:	Not available
Specific gravity:	1.18
Vapor density:	Heavier than air.
Flash point:	> 93 °C (> 199.4 °F)
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Autoignition temperature:	Not determined
Flammability:	Not applicable
Evaporation rate:	Not determined
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
VOC content:	< 3 % Essentially Zero (Exempt Compounds)
Viscosity:	Not available
Decomposition temperature:	Not available

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10 Stability and reactivity

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Hydrocarbons. Irritating organic vapours. Traces of Oxides of sulfur. May release trace quantities of fluoride.
Incompatible materials:	Oxidizing agents.
Reactivity:	Not available.
Conditions to avoid:	Store away from incompatible materials.

11 Toxicological information

Relevant routes of exposure

Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:	This product has low volatility and is not expected to cause respiratory tract irritation during normal conditions of use.
Skin contact:	Causes skin irritation.
Eye contact:	Causes serious eye damage.
Ingestion:	May cause gastrointestinal tract irritation if swallowed.

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Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO	Inhalation LC50 (Rat, 4 h) = 10.5 mg/l Inhalation LC50 (Rat, 4 h) = > 4.026 mg/l Inhalation LC50 (Rat, 4 h) = 2.18 mg/l	Irritant
Calcium fluoride	Oral LD50 (Rat) = 4,250 mg/kg Inhalation LC50 (Rat, 4 h) = > 5,070 mg/m3	Teeth, Muscle, Respiratory
Graphite	Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3 Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3	Lung
Calcium distearate	None	No Target Organs
Distillates (petroleum), hydrotreated heavy naphthenic	Inhalation LC50 (Rat, 4 h) = > 4.026 mg/l Inhalation LC50 (Rat, 4 h) = 2.18 mg/l Inhalation LC50 (Rat, 4 h) = 10.5 mg/l Inhalation LC50 (Rat, 4 h) = > 5.2 mg/l Inhalation LC50 (Rat, 4 h) = < 5.7 mg/l	Irritant
Petroleum distillates, hydrotreated, light naphthenic	Inhalation LC50 (Rat, 4 h) = 10.5 mg/l Inhalation LC50 (Rat, 4 h) = > 4.026 mg/l Inhalation LC50 (Rat, 4 h) = > 5.2 mg/l Inhalation LC50 (Rat, 4 h) = 9.6 mg/l Inhalation LC50 (Rat, 4 h) = 2.18 mg/l Inhalation LC50 (Rat, 4 h) = > 5 mg/l Inhalation LC50 (Rat, 4 h) = < 5.7 mg/l	Irritant
Benzenesulfonic acid, C10-16-alkyl derivs.	Inhalation LC50 (Rat, 4 h) = > 1.9 mg/l	No Target Organs
Calcium dodecylbenzene sulfonate	None	Eyes, Irritant
Diboron calcium tetraoxide	None	No Records
Calcium dihydroxide	Oral LD50 (Rat) = 7.340 mg / kg	Irritant, Corrosive

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO	No	No	No
Calcium fluoride	No	No	No
Graphite	No	No	No
Calcium distearate	No	No	No
Distillates (petroleum), hydrotreated heavy naphthenic	No	No	No
Petroleum distillates, hydrotreated, light naphthenic	No	No	No
Benzenesulfonic acid, C10-16-alkyl derivs.	No	No	No
Calcium dodecylbenzene sulfonate	No	No	No
Diboron calcium tetraoxide	No	No	No
Calcium dihydroxide	No	No	No

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12 Ecological information

Not available

13 Disposal considerations

Information provided is for unused product only.

13.1 Recommended method of disposal

Follow all local, state, federal and provincial regulations for disposal.

14 Transport information

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

International Air Transportation (ICAO/IATA)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

Water Transportation (IMO/IMDG)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

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15 Regulatory Information

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.
TSCA 12 (b) Export Notification:	None above reporting de minimis
CERCLA/SARA Section 302 EHS:	None above reporting de minimis
CERCLA/SARA Section 311/312:	Immediate Health
CERCLA/SARA Section 313:	None above reporting de minimis
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
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16 Other informations

This safety data sheet contains changes from the previous version in sections: 2,3,8,11,13

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