

Productname : LOCK DE-ICER Creationdate : 11.10.17 Version : 3.1
 Ref.Nr.: BDS001063_3_20171011 (EN) Replaces: BDS001063_20170629

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

1.1. Product identifier

LOCK DE-ICER
Aerosol

1.2. Relevant identified uses of the substance or mixture and uses advised against

Lubricants

1.3. Details of the supplier of the safety data sheet

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 Touwslagerstraat 1
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 Belgium
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Subsidiaries		Tel	Fax
CRC Industries Finland Oy	Laurinkatu 57 A 23 B, 08100 Lohja	+358/(19)32.921	
CRC Industries France	6, avenue du marais, C.S. 90028, 95102 Argenteuil Cedex	01.34.11.20.00	01.34.11.09.96
CRC Industries Deutschland GmbH	Südring 9, D-76473 Iffezheim	(07229) 303 0	(07229)30 32 66
CRC INDUSTRIES IBERIA S.L.U.	GREMIO DEL CUERO-PARC.96, POLIGONO INDUSTRI. DE HONTORIA, 40195 SEGOVIA	0034/921.427.546	0034/921.436.270
CRC Industries Sweden	Laxfiskevägen 16, 433 38 Partille	0046/31 706 84 80	0046/31 27 39 91

1.4. Emergency telephone number

CRC Industries Europe, Belgium: Tel.: +32(0)52/45.60.11 (office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical: Aerosols, category 1
 Extremely flammable aerosol.
 Pressurised container: May burst if heated.

Classification is based on test data.



Productname : LOCK DE-ICER **Creationdate :** 11.10.17 Version : 3.1
Ref.Nr.: BDS001063_3_20171011 (EN) **Replaces:** BDS001063_20170629

Health: Eye irritation, category 2
 Causes serious eye irritation.

Classification based on calculation method.

Environment: Not classified

Classification based on calculation method.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s): H222 : Extremely flammable aerosol.
 H229 : Pressurised container: May burst if heated.
 H319 : Causes serious eye irritation.

Precautionary statement(s): P102 : Keep out of reach of children.
 P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 : Do not spray on an open flame or other ignition source.
 P251 : Do not pierce or burn, even after use.
 P410/412 : Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Aerosols dispensers with a maximum capacity of less than 50 ml are not subject to the provisions of the Aerosol Dispenser Directive (75/324/EEC, art 1)

The label information is reduced in accordance with section 1.5.2 of Annex I (art 29 CLP-regulation)

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
ethanol; ethyl alcohol	01-2119457610-43	64-17-5	200-578-6	20-40	Flam. Liq. 2	H225	B,X
butane (<= 0,1 % butadiene)	01-2119474691-32	106-97-8	203-448-7	10-30	Flam. Gas 1, Press. Gas	H220,H280	K
ethanediol; ethylene glycol	01-2119456816-28	107-21-1	203-473-3	<25	Acute Tox. 4	H302	A
propan-2-ol; isopropyl alcohol ;isopropanol	01-2119457558-25	67-63-0	200-661-7	<20	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	H225,H319,H336	B

Productname : LOCK DE-ICER **Creationdate :** 11.10.17 Version : 3.1
Ref.Nr.: BDS001063_3_20171011 (EN) **Replaces:** BDS001063_20170629

propane	01-2119486944-21	74-98-6	200-827-9	5-15	Flam. Gas 1, Press. Gas	H220,H280	B
Explanation notes							
A : substance with Community workplace exposure limit							
B : substance with national established workplace exposure limit							
K : not classified as carcinogen, less than 0.1% w/w 1,3-butadiene (Einecs-nr. 203-450-8)							
X : SCL (specific concentration limit)in accordance with art.10 of CLP Regulation No 1272/2008							

(* Explanation phrases : see chapter 16)

SECTION 4: First aid measures

4.1. Description of first aid measures

Contact with eyes :	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Contact with skin :	Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Inhalation :	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion :	If swallowed accidentally, do not induce vomiting and seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation :	Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness
Ingestion :	May cause gastrointestinal disturbances Symptoms : sore throat, abdominal pain, nausea, vomiting
Skin contact :	May cause irritation. Symptoms : redness and pain
Eye contact :	Irritating to eyes Symptoms : redness and pain

4.3. Indication of any immediate medical attention and special treatment needed

General Advice :	If you feel unwell, seek medical advice (show the label where possible) If symptoms persist always call a doctor
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SECTION 5: Firefighting measures

5.1. Extinguishing media

foam, carbon dioxide or dry agent

5.2. Special hazards arising from the substance or mixture

Aerosols may explode if heated above 50°C
Forms hazardous decomposition products



Productname : LOCK DE-ICER
Ref.Nr.: BDS001063_3_20171011 (EN)
Creationdate : 11.10.17 Version : 3.1
Replaces: BDS001063_20170629

CO,CO2

5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water
In case of fire, do not breathe fumes

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources
Ensure adequate ventilation
Wear suitable protective clothing and gloves.

6.2. Environmental precautions

Do not allow to enter public sewers and watercourses
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3. Methods and material for containment and cleaning up

Absorb spillage in suitable inert material
Place in appropriate container

6.4. Reference to other sections

For further information see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from heat and sources of ignition
Take precautionary measures against static discharges
Equipment should be earthed
Use explosion-proof electrical/ventilating/lighting/.../equipment.
Use only non-sparking tools.
Do not breathe aerosols or vapours.
Ensure adequate ventilation
Avoid contact with skin and eyes.
Wash thoroughly after use
Wear protective gloves/protective clothing/eye protection/face protection.
Eyewash bottles should be available

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.
Keep out of reach of children.



Productname : LOCK DE-ICER
 Ref.Nr.: BDS001063_3_20171011 (EN)
 Creationdate : 11.10.17 Version : 3.1
 Replaces: BDS001063_20170629

7.3. Specific end use(s)

Lubricants

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits :

Hazardous ingredient	CAS-nr.	method	
EU established exposure limits:			
ethanediol; ethylene glycol	107-21-1	TWA	20 ppm
		STEL	40 ppm
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	TWA	400 ppm
		STEL	500 ppm
National established exposure limits, United Kingdom			
butane (<= 0,1 % butadiene)	106-97-8	TWA	600 ppm
		STEL	750 ppm
ethanediol; ethylene glycol	107-21-1	TWA	20 ppm
		STEL	40 ppm
ethanol; ethyl alcohol	64-17-5	TWA	1000 ppm
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	TWA	400 ppm
		STEL	500 ppm

8.2. Exposure controls

Control procedures :	Ensure adequate ventilation Keep away from heat and sources of ignition Take precautionary measures against static discharges
Personal protection :	Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation Wear suitable protective gloves
inhalation :	In case of insufficient ventilation, wear suitable respiratory equipment.
recommended respiratory protection:	(filter AXP2)
hands and skin :	When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through.
Recommended gloves:	Nitrile
eyes :	Wear safety eyewear according to EN 166.
Environmental protection:	Avoid release to the environment. Collect spillage.

SECTION 9: Physical and chemical properties



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5 / 10

Productname : LOCK DE-ICER
Ref.Nr.: BDS001063_3_20171011 (EN)
Creationdate : 11.10.17 Version : 3.1
Replaces: BDS001063_20170629

9.1. Information on basic physical and chemical properties

(for aerosols data for the product without propellant)

Apperance : physical state : Propane/butane propelled liquid.
colour : Colorless.
odour : Characteristic odor.
pH : Not applicable.
Boiling point/range : < 0 °C
Flash point : - 40 °C
Evaporation rate : Not available.
Explosion limits : upper limit : 53 %
lower limit : 1.7 %
Vapour pressure : 0.21 kPa (@ 20°C).
Relative density : 0.83 g/cm³ (@ 20°C).
Solubility in water : Soluble in water
Auto-ignition : 370 °C
Viscosity : Not applicable.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purpose

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

10.4. Conditions to avoid

Avoid overheating

10.5. Incompatible materials

Strong oxidising agent

10.6. Hazardous decomposition products

CO,CO₂

SECTION 11: Toxicological information



Productname : LOCK DE-ICER Creationdate : 11.10.17 Version : 3.1
 Ref.Nr.: BDS001063_3_20171011 (EN) Replaces: BDS001063_20170629

11.1. Information on toxicological effects

acute toxicity: based on available data the classification criteria are not met
skin corrosion/irritation: based on available data the classification criteria are not met
serious eye damage/irritation: Causes serious eye irritation.
respiratory or skin sensitisation: based on available data the classification criteria are not met
germ cell mutagenicity: based on available data the classification criteria are not met
carcinogenicity: based on available data the classification criteria are not met
toxicity for reproduction: based on available data the classification criteria are not met
STOT-single exposure: based on available data the classification criteria are not met
STOT repeated exposure: based on available data the classification criteria are not met
aspiration hazard: based on available data the classification criteria are not met

Information on likely routes of exposure:

Inhalation : Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
Ingestion : May cause gastrointestinal disturbances
Skin contact : May cause irritation.
Eye contact : Irritating to eyes

Toxicological data :

Hazardous ingredient	CAS-nr.	method	
ethanediol; ethylene glycol	107-21-1	LD50 oral rat	> 2000 mg/kg
		LC50 inhal.rat	> 2.5 mg/l
		LD50 derm.rabit	> 10000 mg/kg
ethanol; ethyl alcohol	64-17-5	LD50 oral rat	> 2000 mg/kg
		LD50 derm.rabit	> 2000 mg/kg
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	LD50 oral rat	5840 mg/kg
		LC50 inhal.rat	> 25000 mg/l
		LD50 derm.rabit	13900 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

Not classified

Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
ethanol; ethyl alcohol	64-17-5	LC50 fish	> 100 mg/l
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	IC50 algae	1000 mg/l
		LC50 fish	9640 mg/l



Productname : LOCK DE-ICER
Ref.Nr.: BDS001063_3_20171011 (EN)
Creationdate : 11.10.17 Version : 3.1
Replaces: BDS001063_20170629

EC50 daphnia	9714 mg/l
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12.2. Persistence and degradability

No experimental data available

12.3. Bioaccumulative potential

No experimental data available

12.4. Mobility in soil

Soluble in water

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No experimental data available
GWP (global warming potential): 2

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : This material and its container must be disposed of in a safe way. Do not discharge into drains or the environment, dispose to an authorised waste collection point.
National regulations : Disposal should be in accordance with local, state or national legislation

SECTION 14: Transport information

14.1. UN number

UN-number : 1950

14.2. UN proper shipping name

Proper shipping name: AEROSOLS

14.3. Transport hazard class(es)

Class: 2.1
ADR/RID - Classification code: 5F

14.4. Packing group



Productname : LOCK DE-ICER
Ref.Nr.: BDS001063_3_20171011 (EN)
Creationdate : 11.10.17 Version : 3.1
Replaces: BDS001063_20170629

Packing group: Not applicable.

14.5. Environmental hazards

ADR/RID - Environmentally hazardous: No
IMDG - Marine pollutant: No
IATA/ICAO - Environmentally hazardous: No

14.6. Special precautions for user

IMDG - Ems: F-D, S-U
IATA/ICAO - PAX: 203
IATA/ICAO - CAO: 203

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The Safety Data Sheet is compiled according to the current European requirements.
Regulation (EC) No 1907/2006 (REACH)
Regulation (EC) No 1272/2008 (CLP)
Dir. 2013/10/EU, 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

*Explanation hazard statements: H220 : Extremely flammable gas.
H225 : Highly flammable liquid and vapour.
H280 : Contains gas under pressure; may explode if heated.
H302 : Harmful if swallowed.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.

acronyms and synonyms: TWA = time weight average
STEL = short time exposure limit
VOC = volatile organic compounds
PBT = persistent bioaccumulative toxic
vPvB = very persistent very bioaccumulative

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe



Productname :	LOCK DE-ICER	Creationdate :	11.10.17 Version : 3.1
Ref.Nr.:	BDS001063_3_20171011 (EN)	Replaces:	BDS001063_20170629

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