

Productname : LOCKSPRAY (DE-ICER) **Creationdate :** 20.08.10
Ref.Nr.: AB15150-3-200810 **Replaces:** 31.10.07

1. IDENTIFICATION OF PRODUCT AND COMPANY

Productname : LOCKSPRAY (DE-ICER)
Aerosol

Application : Car Care

Company : CRC Industries Europe bvba
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CRC Industries France	12, Bld des Martyrs de Chateaubriant F-95102 Argenteuil Cédex	(+33)(0)1/34112000	(+33)(0)1/34110996
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2. HAZARD IDENTIFICATION

Health and Safety : Extremely Flammable
(propane/butane propellant)
Vapours may cause drowsiness and dizziness.

Environment : According to EU-directive 99/45/EC not classified

Other hazards : Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.
Without adequate ventilation formation of explosive mixtures may be possible.

3. COMPOSITION AND INFORMATION ON COMPONENTS

Hazardous ingredient	CAS-nr	EINECS	w/w %	symbol	R-phrases*	Notes
butane (<= 0,1 % butadiene)	106-97-8	203-448-7	10-30	F+	12	
ethanediol; ethylene glycol	107-21-1	203-473-3	<25	Xn	22	A



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Hazardous ingredient	CAS-nr	EINECS	w/w %	symbol	R-phrases*	Notes
ethanol; ethyl alcohol	64-17-5	200-578-6	20-40	F	11	B
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	200-661-7	<20	F,Xi	11-36-67	B
propane	74-98-6	200-827-9	5-15	F+	12	B
Explanation notes						
A : substance with Community workplace exposure limit						
B : substance with national established workplace exposure limit						

Remark: for substances with workplace exposure limits see point 8.

(* Explanation risk-phrases : see chapter 16)

4. FIRST AID MEASURES

General Advice : If symptoms persist always call a doctor

Contact with eyes : If substance has got into eyes, immediately wash out with water for at least 15 minutes
Seek medical attention if irritation persists

Contact with skin : Wash with water and soap.

Inhalation : Fresh air, keep warm and at rest.
Seek medical attention if ill effects occur

Ingestion : Ingestion is unlikely to occur
If swallowed accidentally, do not induce vomiting and seek medical advice.

5. FIRE-FIGHTING MEASURES

Flash point (without propellant): - 40 °C

Explosion limits : upper limit : 53 %

lower limit : 1.7 %

Extinguishing media : foam, carbon dioxide or dry agent

Fire-fighting procedures : Keep container(s) exposed to fire cool, by spraying with water

Unusual exposure hazard : Aerosols may explode if heated above 50°C

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Shut off all ignition sources
Ensure adequate ventilation

Environmental precautions : Do not allow to enter public sewers and watercourses

Cleaning methods : Absorb spillage in suitable inert material



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7. HANDLING AND STORAGE

Handling procedures : Use only in well ventilated areas
 Keep away from heat and sources of ignition
 Do not spray on a naked flame or incandescent material.
 Do not pierce or burn aerosols, even after use.
 Do not breathe aerosols or vapours.
 Avoid contact with skin and eyes.

Storage procedures : Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.
 Keep in a cool, dry, well ventilated place
 Keep out of reach of children.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Control procedures : Ensure adequate ventilation
 Keep away from heat and sources of ignition

Personal protection : Use only in well ventilated areas
 It is advisable to take precautions to avoid contact with skin and eyes when handling the product.

inhalation : In case of insufficient ventilation, wear suitable respiratory equipment.

hands and skin : Wear suitable protective gloves

eyes : Wear safety goggles.

Exposure limits :

Hazardous ingredient	CAS-nr	method	
EU established exposure limits:			
ethanediol; ethylene glycol	107-21-1	TWA	20 ppm
		STEL	40 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES (for aerosols without propellant)

Apperance : physical state : Propane/butane propelled liquid.
colour : Colorless.
odour : Characteristic odor.

Boiling point/range : < 0 °C

Relative density : 0.83 g/cm³ (@ 20°C).

pH : Not applicable.

Vapour pressure : 0.21 kPa (@ 20°C).

Relative vapour density : > 1

Solubility in water : Soluble in water



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Flash point : - 40 °C
Auto-ignition : 370 °C
Viscosity : Not applicable.
Evaporation rate : Not available.

10. STABILITY AND REACTIVITY

Conditions to be avoided : Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.
Keep away from heat and sources of ignition

Materials to be avoided : Strong oxidising agent

Hazardous decomposition compounds : CO,CO2

11. TOXICOLOGICAL INFORMATION

Inhalation : Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness

Skin contact : May cause irritation.

Eye contact : May cause irritation.

12. ECOLOGICAL INFORMATION

Do not allow to enter public sewers and watercourses

13. WASTE DISPOSAL

Product : Do not discharge into drains or the environment, dispose to an authorised waste collection point.
Disposal should be in accordance with local, state or national legislation

14. TRANSPORT

Road/Rail - ADR/RID : ---- Not classified

Sea - IMDG : ---- Not classified

Air - IATA/ICAO : UN1950 Aerosols, flammable Class : 2.1, PG : NA,
Label : RFG

Packing instr. LQ	Y203
PAX	203
CAO	203

15. REGULATORY INFORMATION

Warning symbol(s) : F+ : EXTREMELY FLAMMABLE

Risk-phrase(s) : R67: Vapours may cause drowsiness and dizziness.



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Safety-phrase(s) :

- S2: Keep out of the reach of children.
- S16: Keep away from sources of ignition - No smoking.
- S23: Do not breathe vapours/spray.
- S51: Use only in well-ventilated areas.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Classified according to Dir. 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.

Classification according to EU-directive 99/45/EC

16. OTHER INFORMATION

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 our products from the point of view of safety requirements. It does not guarantee any specific properties.

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REVISIONS IN CHAPTRE : 2,3,8,15

***Explanation risk-phrases:**

- R11: Highly flammable.
- R12: Extremely flammable.
- R22: Harmful if swallowed.
- R36: Irritating to eyes.
- R67: Vapours may cause drowsiness and dizziness.

This Material Safety Data Sheet may already have been revised at this moment for reason such as legislation, availability of components and newly acquired experiences. The latest and only valid version of this Material Safety Data Sheet will be sent to you upon simple request or can be found on our website : www.crcind.com. We recommend you to register on this website for this product so you will be able to receive any future updated version automatically.