

Productname :	MOTOR STARTER	Creationdate :	23.11.10
Ref.Nr.:	AB15100-3-231110	Replaces:	17.08.10

1. IDENTIFICATION OF PRODUCT AND COMPANY

Productname : MOTOR STARTER
Aerosol

Application : Car Care

Company : CRC Industries Europe bvba
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CRC Industries Sweden	Kryptongatan 14, 43153 Mölndal	(+46)(0)31/7068480	(+46)(0)31/273991

2. HAZARD IDENTIFICATION

Health and Safety : Extremely Flammable
May form explosive peroxides.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.
Remark: Preparations classified as harmful on the basis of an aspiration hazard need not be labelled as harmful with R65 when placed on the market in aerosol containers or in containers fitted with a sealed spray attachment. (EU-Directive 67/548 Annex VI 9.4)

Environment : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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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-nbr.	EINECS	w/w %	symbol	R-phrases*	Notes
pentane	109-66-0	203-692-4	10-30	F+,Xn,N	12-51/53-65-66-67	A
diethyl ether; ether	60-29-7	200-467-2	10-30	F+,Xn	12-19-22-66-67	A
acetone; propan-2-one; propanone	67-64-1	200-662-2	5-10	F,Xi	11-36-66-67	A
propane	74-98-6	200-827-9	30-60	F+	12	B
Explanation notes						
A : substance with Community workplace exposure limit						
B : substance with national established workplace exposure limit						

(* Explanation risk-phrases : see chapter 16)

4. FIRST AID MEASURES**General Advice :**

The usual precautions for handling chemicals should be observed

If any symptoms should occur, seek medical advice.

Contact with eyes :

If substance has got into eyes, immediately wash out with plenty of water

Seek medical attention if irritation persists

Contact with skin :

Wash with water and soap.

Seek medical attention if irritation persists

Inhalation :

Fresh air, keep warm and at rest.

Seek medical attention if ill effects occur

Ingestion :

Ingestion is unlikely to occur

If swallowed do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention

5. FIRE-FIGHTING MEASURES**Flash point (without propellant):**

< 0 °C

Explosion limits : upper limit :

36 %

lower limit :

1.4 %

Extinguishing media :

water, foam, carbon dioxide or dry agent



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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
May form explosive vapour/air mixtures

6. ACCIDENTAL RELEASE MEASURES

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

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

Cleaning methods : Absorb spillage in suitable inert material

7. HANDLING AND STORAGE

Handling procedures : Use only in well ventilated areas
Keep away from heat and sources of ignition
May form explosive vapour/air mixtures
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
Take precautionary measures against static discharges
Keep away from heat and sources of ignition

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

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-nbr.	method	
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Hazardous ingredient	CAS-nbr.	method	
EU established exposure limits:			
pentane	109-66-0	TWA	1000 ppm
diethyl ether; ether	60-29-7	TWA	100 ppm
		STEL	200 ppm
acetone; propan-2-one; propanone	67-64-1	TWA	500 ppm
National established exposure limits : United Kingdom			
acetone; propan-2-one; propanone	67-64-1	TWA	500 ppm
		STEL	1500 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 : - 44 °C
Relative density : 0.607 (@ 20°C).
pH : Not applicable.
Vapour pressure : 480 kPa (@ 20°C).
Relative vapour density : Not available.
Solubility in water : Insoluble in water
Flash point : < 0 °C
Auto-ignition : 170 135-200°C.
Viscosity : Not available.
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.
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
Ingestion : After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia.

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Skin contact : Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis

Eye contact : May cause irritation.

Toxicological data : No experimental data available

12. ECOLOGICAL INFORMATION

Other adverse effects : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Do not allow to enter public sewers and watercourses
No experimental data available

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

UN-number : 1950

Road/Rail - ADR/RID : UN1950 Aerosols Class : 2, PG : NA, Class code : 5F, Label : 2.1, Tunnel-code : (D)

Sea - IMDG : UN1950 Aerosols Class : 2, PG : NA, Label : 2.1

EmS F-D, S-U

Air - IATA/ICAO : UN1950 Aerosols, flammable, (engine starting fluid)
Class : 3, PG : NA, Label : 2.1

15. REGULATORY INFORMATION

Warning symbol(s) : F+ : EXTREMELY FLAMMABLE

Risk-phrases(s) : R19: May form explosive peroxides.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66: Repeated exposure may cause skin dryness or cracking.
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.
S35: This material and its container must be disposed of in a safe way.
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.
Without adequate ventilation formation of explosive mixtures may be possible.

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 :

3,11,13,14,15

***Explanation risk-phrases:**

R11: Highly flammable.
R12: Extremely flammable.
R19: May form explosive peroxides.
R22: Harmful if swallowed.
R36: Irritating to eyes.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.
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.



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