

Productname : WHITE LITHIUM GREASE **Creationdate :** 23.11.10
Ref.Nr.: AB12400-3-231110 **Replaces:** 28.07.10

1. IDENTIFICATION OF PRODUCT AND COMPANY

Productname : WHITE LITHIUM GREASE
Aerosol

Application : Lubricants

Company : CRC Industries Europe bvba
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Belgium
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| CRC Industries Finland | Asemanrinne 13, 08500 Lohja AS | (+358)(0)19/32921 | (+358)(0)19/383676 |
| 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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| CRC Industries Sweden | Kryptongatan 14, 43153 Mölndal | (+46)(0)31/7068480 | (+46)(0)31/273991 |

2. HAZARD IDENTIFICATION

Health and Safety : Extremely Flammable
(propane/butane propellant)
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 |
|--|------------|-----------|--------|--------|-----------------------------|-------|
| phenol carboic acid monohydroxybenzene phenylalcohol | 108-95-2 | 203-632-7 | <0.01 | T,C | 23/24/25-34-48/20/ 21/22-68 | A |
| zinc oxide | 1314-13-2 | 215-222-5 | <1 | N | 50/53 | B |
| titanium dioxide | 13463-67-7 | 236-675-5 | <0.1 | - | - | B |
| Naphtha (petroleum), hydrotreated light (benzene<0.1%) | 64742-49-0 | 265-151-9 | <20 | F,Xn,N | 11-38-51/53-65-67 | B,P |
| Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified | 64742-52-5 | 265-155-0 | <20 | Xi | R36/37/38 | L |
| Hydrocarbons,C3-4-rich, petroleum distillate Petroleumgas (1,3- butadiene < 0.1%) | 68512-91-4 | 270-990-9 | 60-100 | F+ | 12 | K |
| zinc alkyl dithiophosphate | 68649-42-3 | 272-028-3 | <1 | N | 51/53 | |
| propionic acid ... % | 79-09-4 | 201-176-3 | <1 | C | 34 | A |
| 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) | | | | | | |
| L : not classified as carcinogen, less than 3% DMSO extract as measured by IP 346 | | | | | | |
| P : not classified as | | | | | | |

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| Hazardous ingredient | CAS-nbr. | EINECS | w/w % | symbol | R-phrases* | Notes |
|---|----------|--------|-------|--------|------------|-------|
| carcinogen, less than 0.1% w/w benzene (Einecs-nr. 200-753-7) | | | | | | |

(* 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 : Not available.

lower limit : Not available.

Extinguishing media : water, 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
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

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
Take precautionary measures against static discharges

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.
(Filter type AX)

hands and skin : Wear suitable protective gloves
(nitrile)

eyes : Wear safety goggles.

Exposure limits :

| Hazardous ingredient | CAS-nbr. | method | |
|--|----------|--------|--------|
| EU established exposure limits: | | | |
| phenol carboic acid monohydroxybenzene phenylalcohol | 108-95-2 | TWA | 2 ppm |
| propionic acid ... % | 79-09-4 | TWA | 10 ppm |
| | | STEL | 20 ppm |

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

Apperance : physical state : Propane/butane propelled liquid.

colour : White.

odour : Solvent.

Boiling point/range : 60-100 °C

Relative density : 0.794 g/cm³ (@ 20°C).

pH : Not applicable.



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| Vapour pressure : | Not available. |
| Relative vapour density : | 3 (@ 20°C). |
| Solubility in water : | Insoluble in water |
| Flash point : | < 0 °C |
| Auto-ignition : | > 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

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|-----------------------|--|
| Inhalation : | Inhalation of solvent vapours may give rise to nausea, headaches and dizziness |
| Ingestion : | Ingestion is unlikely to occur After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia. |
| Skin contact : | Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis |

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 |
|--------------------------------|---|

13. WASTE DISPOSAL

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

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|--------------------|------|
| UN-number : | 1950 |
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| 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 Class : 2, PG : NA, Label : 2.1 |

15. REGULATORY INFORMATION

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|----------------------------|---|
| Warning symbol(s) : | F+ : EXTREMELY FLAMMABLE |
| Risk-phrases(s) : | R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R67: Vapours may cause drowsiness and dizziness. |
| 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 : 2,3,4,7,8,15



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***Explanation risk-phrases:**

R11: Highly flammable.
R12: Extremely flammable.
R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
R34: Causes burns.
RR36/37/38
R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R38: Irritating to skin.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
R67: Vapours may cause drowsiness and dizziness.
R68: Possible risks of irreversible effects.

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.

