

**Productname :** METAL-FREE PASTE      **Creationdate :** 31.10.07  
**Ref.Nr.:** AB14340-3-311007      **Replaces:** 31.03.04

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

**Productname :** METAL-FREE PASTE  
Aerosol

**Application :** Lubricants

**Company :** CRC Industries Europe bvba  
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## 2. HAZARD IDENTIFICATION

**Health and Safety :** R12: Extremely flammable.  
(propane/butane propellant)  
R38: Irritating to skin.  
R67: Vapours may cause drowsiness and dizziness.

**Environment :** R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Other hazards :** Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.

Remark: The classification for aspiration hazards (R65), does not apply for products placed on the market in aerosol containers.  
(EU-Directive 67/548 Annex VI 9.4)



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### 3. COMPOSITION AND INFORMATION ON COMPONENTS

Hazardous ingredient	CAS-nr	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
Naphtha (petroleum), hydrotreated light (benzene<0.1%)	64742-49-0	265-151-9	10-30	F,Xn,N	11-38-51/53-65-67	B,P
Hydrocarbons,C3-4-rich, petroleum distillate Petroleumgas (1,3-butadiene < 0.1%)	68512-91-4	270-990-9	30-60	F+	12	K
<b>Explanation notes</b>						
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)						
P : not classified as carcinogen, less than 0.1% w/w benzene (Einecs-nr. 200-753-7)						

Note H and P of Annex I (67/548/EEC) apply for the naphtha's in this product.

(\* 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 :** Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water  
Seek medical advice

**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

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## 5. FIRE-FIGHTING MEASURES

<b>Flash point (without propellant):</b>	< 0 °C (Closed Cup)
<b>Explosion limits : upper limit :</b>	not available
<b>lower limit :</b>	not available
<b>Extinguishing media :</b>	foam, carbon dioxide or dry agent
<b>Fire-fighting procedures :</b>	Keep container(s) exposed to fire cool, by spraying with water
<b>Unusual exposure hazard :</b>	Aerosols may explode if heated above 50°C

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions :</b>	Shut off all ignition sources Ensure adequate ventilation Wear suitable protective clothing and gloves.
<b>Environmental precautions :</b>	Do not allow to enter public sewers and watercourses If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities
<b>Cleaning methods :</b>	Absorb spillage in suitable inert material

## 7. HANDLING AND STORAGE

<b>Handling procedures :</b>	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.
<b>Storage procedures :</b>	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

<b>Control procedures :</b>	Ensure adequate ventilation Keep away from heat and sources of ignition Take precautionary measures against static discharges
<b>Personal protection :</b>	It is advisable to take precautions to avoid contact with skin and eyes when handling the product. Use only in well ventilated areas
<b>inhalation :</b>	In case of insufficient ventilation, wear suitable respiratory equipment. (Filter type AX)



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**hands and skin :** Wear suitable protective gloves  
(nitrile)

**eyes :** Wear safety goggles.

**Exposure limits :**

Hazardous ingredient	CAS-nr	method	
<b>EU established exposure limits:</b>			
pentane	109-66-0	TWA	1000 ppm
Calcium dihydroxide	1305-62-0	TWA	5 mg/m <sup>3</sup>

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

**Apperance : physical state :** propane/butane propelled liquid  
**colour :** off-white  
**odour :** solvent  
**Boiling point/range :** not available  
**Relative density :** 0.857 g/cm<sup>3</sup> (@ 20°C)  
**pH :** not applicable  
**Vapour pressure :** not available  
**Relative vapour density :** not available  
**Solubility in water :** Insoluble in water  
**Flash point :** < 0 °C (Closed Cup)  
**Auto-ignition :** > 200 °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,CO<sub>2</sub>

## 11. TOXICOLOGICAL INFORMATION

**Inhalation :** Excessive 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 :** Irritating to skin



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**12. ECOLOGICAL INFORMATION**

**Other adverse effects :** R51/53: Toxic 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**

**Product :** Do not empty into drains.  
This material and its container must be disposed of in a safe way.  
Disposal should be in accordance with local, state or national legislation

**14. TRANSPORT**

<b>UN-number :</b>	1950
<b>Road/Rail - ADR/RID :</b>	UN1950 Aerosols Class : 2, PG : NA, Class code : 5F, Label : 2.1
<b>Sea - IMDG :</b>	UN1950 Aerosols Ltd Qty Class : 2.1, PG : NA, Label : 2.1
<b>EmS</b>	F-D,S-U
<b>Air - IATA/ICAO :</b>	UN1950 Aerosols, flammable Class : 2.1, PG : NA, Label : RFG
<b>Packing instr. LQ</b>	Y203
<b>PAX</b>	203
<b>CAO</b>	203

**15. REGULATORY INFORMATION**

**Warning symbol(s) :** F+,Xi,N

**Risk-phrase(s) :** R12: Extremely flammable.  
R38: Irritating to skin.  
R51/53: Toxic 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 spray.  
S35: This material and its container must be disposed of in a safe way.  
S51: Use only in well-ventilated areas.

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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.

## 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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**\*Explanation risk-phrases:**

R11: Highly flammable.

R12: Extremely flammable.

R38: Irritating to skin.

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.

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](http://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.