

Productname : ALU HiTemp|IND  
Ref.Nr.: BDS000109\_3\_20110606  
Creationdate : 06.06.11 Version : 1.0  
Replaces: AB19660

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

ALU HiTemp IND  
Aerosol

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

Anti Corrosion Products

**1.3. Details of the supplier of the safety data sheet**

CRC Industries Europe bvba  
Touwslagerstraat 1  
9240 Zele  
Belgium  
Tel.: +32(0)52/45.60.11  
Fax.: +32(0)52/45.00.34  
E-mail : hse@crcind.com

Subsidiaries		Tel	Fax
CRC Industries Finland Oy	Asemanrinne 13, 08500 Lohja as.	00358/(19)32.921	00358/(19)383.676
CRC Industries France	ZI du Val d'Argent B.P.90028, 12, Bld des Martyrs de Chateaubriant, 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	Kryptogatan 14, 431 53 Mölndal	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 67/548/EEC or 1999/45/EC:**

Health:

R36: Irritating to eyes.  
R66: Repeated exposure may cause skin dryness or cracking.  
R67: Vapours may cause drowsiness and dizziness.



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 Ref.Nr.: BDS000109\_3\_20110606  
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Physical: EXTREMELY FLAMMABLE  
 Environment: not classified

## 2.2. Label elements

Warning symbol(s) : EXTREMELY FLAMMABLE



Xi : IRRITANT



Risk-phrase(s) : R36: Irritating to eyes.  
 R66: Repeated exposure may cause skin dryness or cracking.  
 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.  
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S51: Use only in well-ventilated areas.

Extra label elements according to Aerosol Dispenser Directive 75/324/EC: 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.

## 2.3. Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

Hazardous ingredient	CAS-nr.	EC-nr	w/w %	symbol	R-phrases*	Notes
dimethyl ether	115-10-6	204-065-8	30-60	F+	12	A
aluminium powder (stabilized)	7429-90-5	231-072-3	1-10	F	11-15	A
2-methoxy-1-methylethyl acetate	108-65-6	203-603-9	<10	Xi	10-36	A
acetone; propan-2-one; propanone	67-64-1	200-662-2	5-10	F,Xi	11-36-66-67	A
n-butyl acetate	123-86-4	204-658-1	1-5		10-66-67	
xylene	1330-20-7	215-535-7	1-5	Xn	10-20/21-38	A
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	265-185-4	1-5	Xn	65	B,P
butan-1-ol; n-butanol	71-36-3	200-751-6	1-5	Xn	10-22-37/38-41-67	B

**Productname :** ALU HiTemp|IND  
**Ref.Nr.:** BDS000109\_3\_20110606

**Creationdate :** 06.06.11 Version : 1.0  
**Replaces:** AB19660

2-methylpropan-1-ol; iso-butanol	78-83-1	201-148-0	0-1	Xi	10-37/38-41-67	B
methanol	67-56-1	200-659-6	0-1	F,T	11-23/24/25-39/23/24/25	A

**Explanation notes**

A : substance with Community workplace exposure limit

B : substance with national established workplace exposure limit

P : not classified as carcinogen, less than 0.1% w/w benzene (Einecs-nr. 200-753-7)

Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
dimethyl ether		115-10-6	204-065-8	30-60	Flam. Gas 1, Press. Gas	H220	A
acetone; propan-2-one; propanone		67-64-1	200-662-2	5-10	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	H225, H319, H336	A
aluminium powder (stabilized)		7429-90-5	231-072-3	1-10	Water-react. 2, Flam. Sol. 1	H261, H228	A
n-butyl acetate		123-86-4	204-658-1	1-5	Flam. Liq. 3, STOT SE 3	H226, H336	
xylene		1330-20-7	215-535-7	1-5	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2	H226, H332, H312, H315	A
butan-1-ol; n-butanol		71-36-3	200-751-6	1-5	Flam. Liq. 3, Acute Tox. 4, STOT SE 3, Skin Irrit. 2, Eye Dam. 1, STOT SE 3	H226, H302, H335, H315, H318, H336	B
methanol		67-56-1	200-659-6	0-1	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1	H225, H331, H311, H301, H370	A
2-methylpropan-1-ol; iso-butanol		78-83-1	201-148-0	0-1	Flam. Liq. 3, STOT SE 3, Skin Irrit. 2, Eye Dam. 1, STOT SE 3	H226, H335, H315, H318, H336	B

**Explanation notes**

A : substance with Community workplace exposure limit

B : substance with national established workplace exposure limit

(\* Explanation phrases : see chapter 16)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Contact with eyes :</b>	If substance has got into eyes, immediately wash out with water for at least 15 minutes Seek medical advice
<b>Contact with skin :</b>	Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water Seek medical advice
<b>Inhalation :</b>	Fresh air, keep warm and at rest. Seek medical attention if ill effects occur
<b>Ingestion :</b>	Ingestion is unlikely to occur If swallowed accidentally, do not induce vomiting and seek medical advice.

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

<b>Inhalation :</b>	Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness
<b>Ingestion :</b>	May induce chemical pneumonia. Symptoms : sore throat, abdominal pain, nausea, vomiting



**Productname :** ALU HiTemp|IND **Creationdate :** 06.06.11 Version : 1.0  
**Ref.Nr.:** BDS000109\_3\_20110606 **Replaces:** AB19660

**Skin contact :** Irritating to skin  
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

### 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  
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



**Productname :** ALU HiTemp|IND  
**Ref.Nr.:** BDS000109\_3\_20110606

**Creationdate :** 06.06.11 Version : 1.0  
**Replaces:** AB19660

## 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.

### 7.3. Specific end use(s)

Anti Corrosion Products

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits :

Hazardous ingredient	CAS-nr.	method	
<b>EU established exposure limits:</b>			
2-methoxy-1-methylethyl acetate	108-65-6	TWA	50 ppm
		STEL	100 ppm
dimethyl ether	115-10-6	TWA	1000 ppm
xylene	1330-20-7	TWA	50 ppm
		STEL	100 ppm
methanol	67-56-1	TWA	200 ppm
acetone; propan-2-one; propanone	67-64-1	TWA	500 ppm
<b>National established exposure limits, United Kingdom</b>			
dimethyl ether	115-10-6	TWA	400 ppm
		STEL	500 ppm
n-butyl acetate	123-86-4	TWA	150 ppm
		STEL	200 ppm



**Productname :** ALU HiTemp|IND **Creationdate :** 06.06.11 Version : 1.0  
**Ref.Nr.:** BDS000109\_3\_20110606 **Replaces:** AB19660

xylene	1330-20-7	TWA	50 ppm
		STEL	100 ppm
methanol	67-56-1	TWA	200 ppm
		STEL	250 ppm
acetone; propan-2-one; propanone	67-64-1	TWA	500 ppm
		STEL	1500 ppm
2-methylpropan-1-ol; iso-butanol	78-83-1	TWA	50 ppm
		STEL	75 ppm

## 8.2. Exposure controls

<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>	Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation
<b>inhalation :</b>	In case of insufficient ventilation, wear suitable respiratory equipment. Air purifying respirator equipped with organic gas/vapor cartridge (type A or AX)
<b>hands and skin :</b>	Wear suitable protective gloves (nitrile)
<b>eyes :</b>	Wear safety goggles.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Apperance : physical state :</b>	Liquid.
<b>colour :</b>	Grey.
<b>odour :</b>	Characteristic odor.
<b>pH :</b>	Not applicable.
<b>Boiling point/range :</b>	Not available.
<b>Flash point :</b>	< 0 °C
<b>Evaporation rate :</b>	Not available.
<b>Explosion limits : upper limit :</b>	Not available.
<b>lower limit :</b>	Not available.
<b>Vapour pressure :</b>	Not available.
<b>Relative density :</b>	1.062 g/cm <sup>3</sup> (@ 20°C).
<b>Solubility in water :</b>	Insoluble in water
<b>Auto-ignition :</b>	> 200 °C
<b>Viscosity :</b>	Not available.

### 9.2. Other information

No information available

## SECTION 10: Stability and reactivity



**CRC Industries Europe bvba**

Touwslagerstraat 1, 9240 Zele – Belgium

Tel (+32) (0) 52 / 45 60 11 – Fax (+32) (0) 52 / 45 00 34 – www.crcind.com

6 / 10

**Productname :** ALU HiTemp|IND **Creationdate :** 06.06.11 Version : 1.0  
**Ref.Nr.:** BDS000109\_3\_20110606 **Replaces:** AB19660

### 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

### 11.1. Information on toxicological effects

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

### Toxicological data :

Hazardous ingredient	CAS-nr.	method	
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	LD50 oral rat	> 2000 mg/kg
acetone; propan-2-one; propanone	67-64-1	LD50 oral rat	> 2000 mg/kg
		LD50 derm.rabit	> 2000 mg/kg

## SECTION 12: Ecological information

### 12.1. Toxicity



**Productname :** ALU HiTemp|IND  
**Ref.Nr.:** BDS000109\_3\_20110606

**Creationdate :** 06.06.11 Version : 1.0  
**Replaces:** AB19660

not classified

#### Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	IC50 algae	1 - 10 mg/l
		LC50 fish	10 - 100 mg/l
		EC50 daphnia	10 - 100 mg/l
acetone; propan-2-one; propanone	67-64-1	IC50 algae	> 100 mg/l
		LC50 fish	> 100 mg/l
		EC50 daphnia	> 100 mg/l

#### 12.2. Persistence and degradability

No experimental data available

#### 12.3. Bioaccumulative potential

No experimental data available

#### 12.4. Mobility in soil

Insoluble in water

#### 12.5. Results of PBT and vPvB assessment

No information available

#### 12.6. Other adverse effects

No experimental data available

### 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.

**Contaminated packaging :** Disposal should be in accordance with local, state or national legislation

### SECTION 14: Transport information

#### 14.1. UN number

UN-number : 1950





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**Ref.Nr.:** BDS000109\_3\_20110606 **Replaces:** AB19660

#### 14.2. UN proper shipping name

Proper shipping name: AEROSOLS, flammable

#### 14.3. Transport hazard class(es)

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

#### 14.4. Packing group

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

ADR/RID - Tunnelcode: (D)  
IMDG - Ems: F-D,S-U  
IATA/ICAO - PAX: 203  
IATA/ICAO - CAO: 203

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 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.  
Dir. 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.  
EU-directive 99/45/EC  
Regulation (EC) No 1907/2006 (REACH)  
Regulation (EC) No 1272/2008

#### 15.2. Chemical safety assessment

No information available



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Ref.Nr.: BDS000109\_3\_20110606

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## SECTION 16: Other information

\*Explanation risk-phrases:

- R10: Flammable.
- R11: Highly flammable.
- R12: Extremely flammable.
- R15: Contact with water liberates extremely flammable gases.
- R22: Harmful if swallowed.
- R36: Irritating to eyes.
- R38: Irritating to skin.
- R41: Risk of serious damage to eyes.
- R65: Harmful: may cause lung damage if swallowed.
- R66: Repeated exposure may cause skin dryness or cracking.
- R67: Vapours may cause drowsiness and dizziness.
- R20/21: Harmful by inhalation and in contact with skin.
- R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
- R37/38: Irritating to respiratory system and skin.
- R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

\*Explanation hazard statements:

- H220 : Extremely flammable gas.
- H225 : Highly flammable liquid and vapour.
- H226 : Flammable liquid and vapour.
- H228 : Flammable solid.
- H261 : In contact with water releases flammable gases.
- H301 : Toxic if swallowed.
- H302 : Harmful if swallowed.
- H311 : Toxic in contact with skin.
- H312 : Harmful in contact with skin.
- H315 : Causes skin irritation.
- H318 : Causes serious eye damage.
- H319 : Causes serious eye irritation.
- H331 : Toxic if inhaled.
- H332 : Harmful if inhaled.
- H335 : May cause respiratory irritation.
- H336 : May cause drowsiness or dizziness.
- H370 : Causes damage to organs .

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. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC.

