

Productname : KF 1280-ND
Ref.Nr.: BDS001130_3_20120117
Creationdate : 17.01.12 Version : 1.0
Replaces: AB39520

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

KF 1280-ND
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	+358/(19)32.921	+358/(19)383.676
CRC Industries France	6, avenue du marais, B.P. 90028, 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	Kryptongatan 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: R36/38: Irritating to eyes and skin.
R67: Vapours may cause drowsiness and dizziness.
Physical: EXTREMELY FLAMMABLE
Environment: R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in



Productname : KF 1280-ND
 Ref.Nr.: BDS001130_3_20120117
 Creationdate : 17.01.12 Version : 1.0
 Replaces: AB39520

the aquatic environment.

2.2. Label elements

Warning symbol(s) :

EXTREMELY FLAMMABLE



Xi : IRRITANT



N : DANGEROUS FOR THE ENVIRONMENT



Risk-phrase(s) :

R36/38: Irritating to eyes and 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 vapours/spray.
 S24/25: Avoid contact with skin and eyes.
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S35: This material and its container must be disposed of in a safe way.
 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.

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)

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
----------------------	---------	-------	--------------	------------	-------



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

2 / 12

Safety Data Sheet

Regulation EC No 1907/2006 Art.31

Productname : KF 1280-ND
Ref.Nr.: BDS001130_3_20120117

Creationdate : 17.01.12 Version : 1.0
Replaces: AB39520

dimethyl ether	115-10-6	204-065-8	30-60	F+	12	A
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane	-	926-605-8	10-30	F,Xn,N	11-51/53-65-66-67	
acetone; propan-2-one; propanone	67-64-1	200-662-2	5-10	F,Xi	11-36-66-67	A
Solvent naphtha (petroleum), heavy arom. (benzene<0.1%)	64742-94-5	265-198-5	1-5	Xn,N	51/53-65-66-67	B
Solvent naphtha (petroleum), light arom. (benzene<0.1%)	64742-95-6	265-199-0	1-5	Xn,N	10-37-51/53-65-66-67	B,P
butan-1-ol; n-butanol	71-36-3	200-751-6	1-5	Xn	10-22-37/38-41-67	B
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	-	919-857-5	1-5	Xn	10-65-66-67	
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	203-539-1	1-5		10-67	A
cyclohexane	110-82-7	203-806-2	1-5	F,Xn,N	11-38-50/53-65-67	A
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	200-661-7	0-1	F,Xi	11-36-67	B
2-methylpropan-1-ol; iso-butanol	78-83-1	201-148-0	0-1	Xi	10-37/38-41-67	B
methylcyclohexane	108-87-2	203-624-3	0-1	F,Xn,N	11-38-51/53-65-67	B
xylene	1330-20-7	215-535-7	<2.5	Xn	10-20/21-38	A
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	64359-81-5	264-843-8	<0.05	C	21/22-34-37-43-50	
2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	96-29-7	202-496-6	<0.05	Xn	21-40-41-43	B
isobutyl methacrylate	97-86-9	202-613-0	<0.05	Xi,N	10-36/37/38-43-50	B
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	112-34-5	203-961-6	<0.05	Xi	36	A
2-octyl-2H-isothiazol-3-one	26530-20-1	247-761-7	<0.05	T,N	22-23/24-34-43-50/53	
formaldehyde ... %	50-00-0	200-001-8	<0.01	T	23/24/25-34-40-43	B

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
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane	01-2119486291-36	-	926-605-8	10-30	Flam. Liq. 2, Asp. Tox. 1, STOT SE 3, Aquatic Chronic 2	H225, H304, H336, H411	
acetone; propan-2-one; propanone	01-2119471330-49	67-64-1	200-662-2	5-10	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	H225, H319, H336	A
butan-1-ol; n-butanol	01-2119484630-38	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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	01-2119463258-33	-	919-857-5	1-5	Flam. Liq. 3, Asp. Tox. 1, STOT SE 3	H226, H304, H336	
cyclohexane	01-2119463273-41	110-82-7	203-806-2	1-5	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1	H225, H304, H315, H336, H400, H410	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
methylcyclohexane		108-87-2	203-624-3	0-1	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2	H225, H304, H315, H336, H411	B



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

3 / 12

Productname : KF 1280-ND
 Ref.Nr.: BDS001130_3_20120117
 Creationdate : 17.01.12 Version : 1.0
 Replaces: AB39520

propan-2-ol; isopropyl alcohol ;isopropanol	01-2119457558-25	67-63-0	200-661-7	0-1	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	H225, H319, H336	B
xylene		1330-20-7	215-535-7	<2.5	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2	H226, H332, H312, H315	A
2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime		96-29-7	202-496-6	<0.05	Carc. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1	H351, H312, H318, H317	B
isobutyl methacrylate		97-86-9	202-613-0	<0.05	Flam. Liq. 3, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1	H226, H319, H335, H315, H317, H400	B
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether		112-34-5	203-961-6	<0.05	Eye Irrit. 2	H319	A
2-octyl-2H-isothiazol-3-one		26530-20-1	247-761-7	<0.05	Acute Tox. 3, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1	H331, H311, H302, H314, H317, H400, H410	
formaldehyde ... %		50-00-0	200-001-8	<0.01	Carc. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1	H351, H331, H311, H301, H314, H317	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

Contact with eyes :	If substance has got into eyes, immediately wash out with water for at least 15 minutes Seek immediate medical attention
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 :	If swallowed do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention

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

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. Symptoms : sore throat, abdominal pain, nausea, vomiting
Skin contact :	Irritating to skin Symptoms : redness and pain



Productname : KF 1280-ND
Ref.Nr.: BDS001130_3_20120117
Creationdate : 17.01.12 Version : 1.0
Replaces: AB39520

Eye contact : Irritating to eyes
Symptoms : redness and pain, impaired vision

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
This material and/or its container must be disposed of as hazardous waste.

6.4. Reference to other sections

For further information see section 8



Productname : KF 1280-ND
 Ref.Nr.: BDS001130_3_20120117
 Creationdate : 17.01.12 Version : 1.0
 Replaces: AB39520

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	
EU established exposure limits:			
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	TWA	100 ppm
		STEL	150 ppm
cyclohexane	110-82-7	TWA	200 ppm
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	112-34-5	TWA	10 ppm
		STEL	15 ppm
dimethyl ether	115-10-6	TWA	1000 ppm
xylene	1330-20-7	TWA	50 ppm
		STEL	100 ppm
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	TWA	400 ppm
		STEL	500 ppm
acetone; propan-2-one; propanone	67-64-1	TWA	500 ppm
National established exposure limits, United Kingdom			



Productname : KF 1280-ND
Ref.Nr.: BDS001130_3_20120117
Creationdate : 17.01.12 Version : 1.0
Replaces: AB39520

1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	TWA	100 ppm
		STEL	150 ppm
cyclohexane	110-82-7	TWA	100 ppm
		STEL	300 ppm
dimethyl ether	115-10-6	TWA	400 ppm
		STEL	500 ppm
xylene	1330-20-7	TWA	50 ppm
		STEL	100 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

Control procedures :	Ensure adequate ventilation Keep away from heat and sources of ignition Take precautionary measures against static discharges
Personal protection :	Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation
inhalation :	In case of insufficient ventilation, wear suitable respiratory equipment. Air purifying respirator equipped with organic gas/vapor cartridge (type A or AX)
hands and skin :	Wear suitable protective gloves (nitrile)
eyes :	Wear safety goggles.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(for aerosols data for the product without propellant)

Apperance : physical state :	DME propelled liquid.
colour :	Colorless.
odour :	Characteristic odor.
pH :	Not applicable.
Boiling point/range :	Not available.
Flash point :	< 0 °C
Evaporation rate :	Not available.
Explosion limits : upper limit :	Not available.
lower limit :	Not available.
Vapour pressure :	Not available.
Relative density :	0.825 g/cm ³ (@ 20°C).
Solubility in water :	Insoluble in water
Auto-ignition :	> 200 °C
Viscosity :	Not available.



Productname : KF 1280-ND
Ref.Nr.: BDS001130_3_20120117

Creationdate : 17.01.12 Version : 1.0
Replaces: AB39520

9.2. Other information

VOC: 735 g/l

SECTION 10: Stability and reactivity

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 : After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia.

Skin contact : Irritating to skin

Eye contact : Irritating to eyes

Toxicological data :

Hazardous ingredient	CAS-nr.	method	
cyclohexane	110-82-7	LD50 oral rat	> 5000 mg/kg
Solvent naphtha (petroleum), heavy arom. (benzene<0.1%)	64742-94-5	LD50 oral rat	> 2000 mg/kg



Productname : KF 1280-ND
Ref.Nr.: BDS001130_3_20120117
Creationdate : 17.01.12 Version : 1.0
Replaces: AB39520

		LD50 derm.rabit	> 2000 mg/kg
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	LD50 oral rat	>2000 mg/kg
		LC50 inhal.rat	>20 mg/l
		LD50 derm.rabit	>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

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

Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
cyclohexane	110-82-7	EC50 daphnia	0.9 mg/l
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	IC50 algae	>100 mg/l
		LC50 fish	>100 mg/l
		EC50 daphnia	>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

SECTION 13: Disposal considerations



Productname : KF 1280-ND
Ref.Nr.: BDS001130_3_20120117

Creationdate : 17.01.12 Version : 1.0
Replaces: AB39520

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

14.2. UN proper shipping name

Proper shipping name: AEROSOLS, flammable(solvent naphtha)

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: Yes
IMDG - Marine pollutant: Marine pollutant
IATA/ICAO - Environmentally hazardous: Yes

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



Productname :	KF 1280-ND	Creationdate :	17.01.12 Version : 1.0
Ref.Nr.:	BDS001130_3_20120117	Replaces:	AB39520

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)

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

- *Explanation risk-phrases:
- R10: Flammable.
 - R11: Highly flammable.
 - R12: Extremely flammable.
 - R21: Harmful in contact with skin.
 - R22: Harmful if swallowed.
 - R34: Causes burns.
 - R36: Irritating to eyes.
 - R37: Irritating to respiratory system.
 - R38: Irritating to skin.
 - R40: Limited evidence of a carcinogenic effect.
 - R41: Risk of serious damage to eyes.
 - R43: May cause sensitization by skin contact.
 - R50: Very toxic to aquatic organisms.
 - 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.
 - R21/22: Harmful in contact with skin and if swallowed.
 - R23/24: Toxic by inhalation and in contact with skin.
 - R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
 - R36/37/38: Irritating to eyes, respiratory system and skin.
 - R37/38: Irritating to respiratory system and 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.
- *Explanation hazard statements:
- H220 : Extremely flammable gas.
 - H225 : Highly flammable liquid and vapour.
 - H226 : Flammable liquid and vapour.
 - H301 : Toxic if swallowed.
 - H302 : Harmful if swallowed.
 - H304 : May be fatal if swallowed and enters airways.
 - H311 : Toxic in contact with skin.
 - H312 : Harmful in contact with skin.
 - H314 : Causes severe skin burns and eye damage.
 - H315 : Causes skin irritation.
 - H317 : May cause an allergic skin reaction.
 - H318 : Causes serious eye damage.
 - H319 : Causes serious eye irritation.
 - H331 : Toxic if inhaled.



Productname : KF 1280-ND
Ref.Nr.: BDS001130_3_20120117

Creationdate : 17.01.12 Version : 1.0
Replaces: AB39520

H332 : Harmful if inhaled.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H351 : Suspected of causing cancer .
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.

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.

