XK017-K21 COLOREX BAD

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : XK017-K21 COLOREX BAD

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

Use of the Sub-stance/Mixture : Paint stripper

1.3 Details of the supplier of the safety data sheet

Company : hebro chemie GmbH
Rostocker Str. 40
41199 Mönchengladbach
Contact person : Wolfgang Schaffers
Telephone : +49 (0) 2166 6009-0
Telefax : +49 (0) 2166 6009-99

Contact person product safety Abteilung Produktsicherheit
E-mail address : info-produktsicherheit@gmx.de

1.4 Emergency telephone number

: Giftinformationszentrum Erfurt:
+49 (0) 361 730 730

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

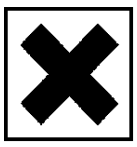
Classification (67/548/EEC, 1999/45/EC)

Toxic to Reproduction Category 3	R63: Possible risk of harm to the unborn child.
Irritant	R41: Risk of serious damage to eyes.

2.2 Label elements

Labelling according to EC Directives (1999/45/EC)

Hazard pictograms :



Harmful

R-phrase(s) : R41 Risk of serious damage to eyes.

		R63	Possible risk of harm to the unborn child.
S-phrase(s)	:	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
		S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
		S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
		S60	This material and its container must be disposed of as hazardous waste.

Hazardous components which must be listed on the label:
- 2687-91-4 1-Ethylpyrrolidin-2-one

2.3 Other hazards

The information required is contained in this Material Safety Data Sheet.

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Chemical nature : Mixture of heterocyclic nitrogen compounds with glycol ether and alcohol

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
1-Ethylpyrrolidin-2-one	2687-91-4 220-250-6 01-2119472138-36	Xi; R41 Repr.Cat.3; R63	Eye Dam. 1; H318 Repr. 2; H361d	>= 25 - < 50
Benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	Xn; R20/22	Acute Tox. 4; H332 Acute Tox. 4; H302 Eye Irrit. 2; H319	>= 10 - < 25

Methanol	67-56-1 200-659-6 01-2119433307-44	F; R11 T; R23/24/25- R39/23/24/25	Flam. Liq. 2; H225 Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 STOT SE 1; H370	>= 0.1 - < 1

Substances with a workplace exposure limit :				
1-Methoxy-2-propanol	107-98-2 203-539-1 01-2119457435-35	R10 R67	Flam. Liq. 3; H226 STOT SE 3; H336	>= 2.5 - < 10

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.
For the full text of the Notas mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : Provide fresh air.
Keep patient warm and at rest.
If symptoms persist, call a physician.

In case of skin contact : Take off all contaminated clothing immediately.
After contact with skin, wash immediately with plenty of soap and water.

In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Seek medical advice.

If swallowed	:	Call a physician immediately. Keep at rest. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	Erythema

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry powder Water spray jet
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	:	Hazardous decomposition products formed under fire conditions. Carbon monoxide Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Use water spray to cool unopened containers. Suppress (knock down) gases/vapours/mists with a water spray jet. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Ensure adequate ventilation. Do not breathe vapours, aerosols.

Remove all sources of ignition.

6.2 Environmental precautions

Environmental precautions : Do not empty into drains.
Inform the relevant authorities if it enters sewers, aquatic environment or soil.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See chapter 8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep away from open flames, hot surfaces and sources of ignition.
Take precautionary measures against static discharges.
Avoid contact with skin and eyes.
Do not breathe vapours or spray mist.
When using do not eat, drink or smoke.
For personal protection see section 8.

Advice on protection against fire and explosion : Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Follow the water regulations.
Keep only in the original container in a cool, well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Keep only in the original container in a cool, well-ventilated place.
Keep away from heat.
Keep away from sources of ignition - No smoking.
Keep at temperatures between - 7°C and 40°C.

Advice on common storage : Incompatible with oxidizing agents.

7.3 Specific end use(s)

Specific use(s) : Paint stripper

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
1-Methoxy-2-propanol	107-98-2	TWA	100 ppm 375 mg/m3	2000-06-16	2000/39/EC
Further information	: skin: Identifies the possibility of significant uptake through the skin Indicative				
	107-98-2	STEL	150 ppm 568 mg/m3	2000-06-16	2000/39/EC
Further information	: skin: Identifies the possibility of significant uptake through the skin Indicative				
	107-98-2	TWA	100 ppm 375 mg/m3	2005-04-06	GB EH40
Further information	: Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
	107-98-2	STEL	150 ppm 560 mg/m3	2005-04-06	GB EH40
Further information	: Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
Methanol	67-56-1	TWA	200 ppm 260 mg/m3	2006-02-09	2006/15/EC
Further information	: skin: Identifies the possibility of significant uptake through the skin Indicative				
	67-56-1	TWA	200 ppm 266 mg/m3	2005-04-06	GB EH40
Further informa-	: Sk: Can be absorbed through skin. The assigned substances are those for which there are				

tion		concerns that dermal absorption will lead to systemic toxicity.			
	67-56-1	STEL	250 ppm 333 mg/m3	2005-04-06	GB EH40
Further information	:	Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			

DNEL/DMEL

1-Ethylpyrrolidin-2-one :
End Use: DNEL, Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 40 mg/m3

End Use: DNEL, Industrial use, Workers
Exposure routes: Skin contact
Potential health effects: Systemic effects
Value: 8 mg/kg

End Use: DNEL, Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 40 mg/m3

Benzyl alcohol :
End Use: DNEL, Workers
Exposure routes: Skin contact
Potential health effects: Long-term exposure
Value: 9.5 mg/kg

End Use: DNEL, Workers
Exposure routes: Inhalation
Potential health effects: Short-term exposure, Systemic effects
Value: 90 mg/m3

Methanol :
End Use: DNEL, Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 260 mg/m3

End Use: DNEL, Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 260 mg/m3

1-Methoxy-2-propanol :
End Use: DNEL, Industrial use, Workers
Exposure routes: Inhalation

Potential health effects: Acute local effects
Value: 553.5 mg/m3

End Use: DNEL, Industrial use, Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 369 mg/m3

End Use: DNEL, Industrial use, Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 50.6 mg/kg

PNEC

1-Ethylpyrrolidin-2-one	:	Fresh water Value: 0.25 mg/l Marine water Value: 0.025 mg/l Fresh water sediment Value: 1.91 mg/kg Soil Value: 0.235 mg/kg Behaviour in waste water treatment plants Value: 10 mg/l
Benzyl alcohol	:	No data available
1-Methoxy-2-propanol	:	Fresh water Value: 10 mg/l Behaviour in waste water treatment plants Value: 100 mg/l Fresh water sediment Value: 41.6 mg/kg Marine sediment Value: 4.17 mg/kg Soil Value: 2.47 mg/kg

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection	:	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Recommended Filter type: ABEK-filter The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
Hand protection	:	Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
Eye protection	:	Safety glasses with side-shields
Skin and body protection	:	Protective suit
Protective measures	:	Follow the skin protection plan.

Environmental exposure controls

General advice	:	Do not empty into drains. Inform the relevant authorities if it enters sewers, aquatic environment or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless
Odour	:	alcohol-like
Flash point	:	58 °C
Ignition temperature	:	165 °C
Lower explosion limit	:	1.3 %(V)
Upper explosion limit	:	13.1 %(V)
pH	:	1.9

at
20 °C
The substance classification has been done according to the determination of alkaline reserve in compliance with the test method of YOUNG et al. prescribed in the German regulations TRGS 200 (Technical Rules for Hazardous Substances). According to this test method the substance is not classified as irritant or corrosive. Other raw materials, whose labelling as irritant or corrosive is not created by their acid or alkaline characteristics, are not included, or not included in such a quantity which would require a different overall product labelling.

Boiling point/boiling range	:	170 °C Method: DIN 51751
Vapour pressure	:	4 hPa at 20 °C Information taken from reference works and the literature.
Density	:	0.984 g/cm3 at 20 °C
Water solubility	:	1,000 g/l completely soluble

9.2 Other information

Explosivity	:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid	:	Product is stable under appropriate usage.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

1-Ethylpyrrolidin-2-one	:	LD50: ca. 3,200 mg/kg Species: rat Method: OECD Test Guideline 401
Benzyl alcohol	:	LD50 Oral: 1,230 mg/kg Species: rat
Methanol	:	Acute toxicity estimate: 100 mg/kg Method: Converted acute toxicity point estimate
1-Methoxy-2-propanol	:	LD50: 5,000 mg/kg Species: rat

Acute inhalation toxicity

1-Ethylpyrrolidin-2-one	:	LC50: > 5.1 mg/l Exposure time: 4 h Species: rat Method: OECD Test Guideline 403
Benzyl alcohol	:	LC50: > 4.178 mg/l dust/mist Exposure time: 4 h Species: rat
1-Methoxy-2-propanol	:	LC50: 6 mg/l Exposure time: 4 h Species: rat

Acute dermal toxicity

1-Ethylpyrrolidin-2-one	:	LD50: > 2,000 mg/kg Species: rat

Method: OECD Test Guideline 402

Methanol : Acute toxicity estimate: 300 mg/kg
Method: Converted acute toxicity point estimate

1-Methoxy-2-propanol : LD50: 13,500 mg/kg
Species: rat

Skin corrosion/irritation

Skin irritation : Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

Serious eye damage/eye irritation

Eye irritation : The liquid splashed in the eyes may cause irritation and reversible damage.

Respiratory or skin sensitisation

Sensitisation : This information is not available.

Reproductive toxicity
Remarks : Suspected of damaging fertility. Suspected of damaging the unborn child.

Further information : According to many years of experience, there are no known harmful effects when handled properly.
Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish : No data available

Toxicity to fish
1-Ethylpyrrolidin-2-one : static test LC50: > 464 - < 999 mg/l
Exposure time: 96 h
Species: Brachydanio rerio (Zebra danio)
Method: OECD Test Guideline 203

Benzyl alcohol	:	LC50: 460 mg/l Exposure time: 96 h Species: Fish Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

1-Ethylpyrrolidin-2-one	:	static test EC50: > 104 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202 semi-static test NOEC: 12.5 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
Benzyl alcohol	:	EC50: 230 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202 NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
Methanol	:	EC50: > 10,000 mg/l Exposure time: 24 h Species: Daphnia magna (Water flea)

Toxicity to algae

1-Ethylpyrrolidin-2-one	:	static test EC50: > 101 mg/l Exposure time: 72 h Species: Desmodesmus subspicatus (green algae) Method: OECD Test Guideline 201
Benzyl alcohol	:	EC50: 79 mg/l Exposure time: 3 h Species: Scenedesmus quadricauda (Green algae) EC0: 640 mg/l Exposure time: 96 h Species: Scenedesmus quadricauda (Green algae)

Toxicity to bacteria

1-Ethylpyrrolidin-2-one	:	EC50: > 1,000 mg/l Exposure time: 16 h

		Species: Pseudomonas putida
Benzyl alcohol	:	EC50: 71.42 mg/l Exposure time: 30 min Species: Photobacterium phosphoreum
		EC10: 658 mg/l Exposure time: 16 h Species: Pseudomonas putida
Methanol	:	EC50: 71,000 mg/l Species: Bacteria

12.2 Persistence and degradability

Biodegradability	:	No data available

12.3 Bioaccumulative potential

Bioaccumulation	:	No data available

12.4 Mobility in soil

Mobility	:	No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Biochemical Oxygen Demand (BOD)

Methanol	:	1,120 mg/g

Chemical Oxygen Demand (COD)

Methanol	:	1,500 mg/g
Additional ecological information	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Dispose of in accordance with local regulations.

		Do not let product enter drains. Do not dispose of with domestic refuse.
Packaging	:	Do not dispose of with domestic refuse.
Contaminated packaging	:	Dispose of in accordance with local regulations.
Waste Code	:	070604 other organic solvents, washing liquids and mother liquors

SECTION 14: Transport information

ADR

UN number	:	1993
UN proper shipping name	:	FLAMMABLE LIQUID, N.O.S. 1-Methoxy-2-propanol
Transport hazard class(es)	:	3
Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Limited Quantity (LQ) Inner Packaging	:	5.00 L
Maximum quantity	:	30.00 KG
Labels	:	3
Tunnel restriction code	:	(D/E)
Environmentally hazardous	:	no
		Special Provision 640E

IATA

UN number	:	1993
Description of the goods	:	Flammable liquid, n.o.s. 1-Methoxy-2-propanol
Class	:	3
Packing group	:	III
Labels	:	3

IATA_C

Packing instruction (cargo aircraft)	:	366
Packing instruction (LQ)	:	Y344
Maximum quantity	:	220.00 L
Environmentally hazardous	:	no

IATA_P

Packing instruction (passenger aircraft)	:	355
Packing instruction (LQ)	:	Y344
Maximum quantity	:	60.00 L
Environmentally hazardous	:	no

IMDG

UN number	:	1993
Description of the goods	:	FLAMMABLE LIQUID, N.O.S. 1-Methoxy-2-propanol
Class	:	3
Packing group	:	III
Labels	:	3
EmS Number 1	:	F-E
EmS Number 2	:	S-E
Marine pollutant	:	no
		"IMDG-Code segregation group not applicable".
		"IMDG-Code segregation group not applicable".

RID

UN number	:	1993
Description of the goods	:	FLAMMABLE LIQUID, N.O.S. 1-Methoxy-2-propanol
Transport hazard class(es)	:	3
Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3
Limited Quantity (LQ) Inner Packaging	:	5.00 L
Maximum quantity	:	30.00 KG
Environmentally hazardous	:	no
		Special Provision 640E

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.
Regional or national implementations of GHS may not implement all hazard classes and categories.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R10	Flammable.
R11	Highly flammable.
R20/22	Harmful by inhalation and if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R41	Risk of serious damage to eyes.
R63	Possible risk of harm to the unborn child.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.

Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.