

Safety data sheet

According to 1907/2006/EC (REACH), 453/2010/EC

K-70 Bitumen Solution K-80 Bitumen Primer

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: K-70 Bitumen Solution K-80 Bitumen Primer

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

Relevant uses: Building material, primer

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet: Katepal Oy

Katepalintie 15

37501 Lempäälä - Finland Phone.: +358 3 375 9111 katepal@katepal.fi

1.4 Emergency telephone number: Emergency telephone number Europe: 112

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Directive 67/548/EC and Directive 1999/45/EC:

This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) no1907/2006 (REACH regulation).

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

Xn: R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation, R65 - Harmful: may cause lung damage if swallowed

R10 - Flammable

R66 - Repeated exposure may cause skin dryness or cracking

R67 - Vapours may cause drowsiness and dizziness

CLP Regulation (EC) nº 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) no 1272/2008.

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2

Asp. Tox. 1: Aspiration hazard, Category 1 Flam. Liq. 3: Flammable liquids, Category 3

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3

2.2 Label elements:

CLP Regulation (EC) nº 1272/2008:

Danger









Hazard statements:

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways

Flam. Liq. 3: H226 - Flammable liquid and vapour STOT SE 3: H336 - May cause drowsiness or dizziness

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P103: Read label before use

P280: Wear protective gloves/protective clothing/eye protection/face protection

P331: Do NOT induce vomiting

P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

Supplementary information:

EUH066: Repeated exposure may cause skin dryness or cracking

Substances that contribute to the classification

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

2.3 Other hazards:



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SECTION 2: HAZARDS IDENTIFICATION (continue)

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Components:

In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification		
CAS:	Non-applicable	Hydrocarbons, C9-C12	2, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Self-classified	
EC:	919-446-0 Non-applicable	Directive 67/548/EC	N: R51/53; Xn: R48/20, R65; R10; R66; R67		35 - 70 %
	:01-2119458049-33-xxxx	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H336	- Danger	
CAS:	61791-55-7	Amines, N-tallow alky	ltrimethylenedi-	Self-classified	
EC:	263-189-0 Non-applicable	Directive 67/548/EC	C: R34; N: R50; Xn: R22		<1 %
	:Non-applicable	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Corr. 1B: H314 - Danger		

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the MSDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

By consumption:

Request medical assistance immediately, showing the MSDS of this product. Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2). You may also use water fog as an extinguishing agent. It is NOT recommended to use a high energetic fire extinguisher.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.



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SECTION 5: FIREFIGHTING MEASURES (continue)

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertization agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage



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SECTION 7: HANDLING AND STORAGE (continue)

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

Identification		Environmental limit va	alues (Finland)
Organic dust (Asphalt vapours)	HTP 8h		5 mg/m ³
	HTP 15 min		10 mg/m ³
	Year	2014	
Hydrogen sulfide	HTP 8h	5 ppm	10 mg/m ³
	HTP 15 min	7 ppm	14 mg/m ³
	Year	2014	

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits, in case the ventilation or the circumstances in the working area are inadequate. In case of using individual protection equipment they should have the "CE marking" in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves	CAT III	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against liquid splash	CATII	EN 166:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

E.- Bodily protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI	EN ISO 13688:2013	For professional use only.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2002	Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 1999/13/EC, this product has the following characteristics:

V.O.C. (Supply): 42,7 - 61,4 % weight

V.O.C. density at 20 °C: 394,87 - 545,24 kg/m³ (394,87 - 545,24 g/L)

Average carbon number:

Average molecular weight: 120 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state at 20 °C: Liquid

Appearance: Thick solution

Color: Black

Odor: Typical hydrocarbon odor

Volatility:

Boiling point at atmospheric pressure: 150 °C Vapour pressure at 20 °C: 199 Pa

Vapour pressure at 50 °C: 1561 Pa (2 kPa)
Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: 900 kg/m^3 Relative density at 20 °C: 0,900

Dynamic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 40 °C: Non-applicable * Concentration: Non-applicable * pH: Non-applicable * Vapour density at 20 °C: Non-applicable * Partition coefficient n-octanol/water 20 °C: Non-applicable * Solubility in water at 20 °C: Non-applicable *

 $\hbox{*Not relevant due to the nature of the product, not providing information property of its hazards.}$

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

Solubility property: Non-applicable * Decomposition temperature: Non-applicable * Melting point/freezing point: Non-applicable *

Flammability:

Flash Point: 39 °C 275 °C Autoignition temperature: Lower flammability limit: Not available Not available Upper flammability limit:

92 Other information:

> Surface tension at 20 °C: Non-applicable * Refraction index: Non-applicable *

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct impact	Avoid direct impact	Not applicable

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

B- Inhalation:

Based on available data, the classification criteria are not met

C- Contact with the skin and the eyes:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3.

^{*}Not relevant due to the nature of the product, not providing information property of its hazards.



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SECTION 11: TOXICOLOGICAL INFORMATION (continue)

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

E- Sensitizing effects:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensibilizing effects. For more information see section 3.

F- Specific target organ toxicity (STOT)-time exposure:

Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion and in serious cases, loss of concentration.

G- Specific target organ toxicity (STOT)-repeated exposure:

Repeated exposure may cause skin dryness or cracking

H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acut	Acute toxicity		
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	LD50 oral	15000 mg/kg	Rat	
CAS: Non-applicable	LD50 dermal	3400 mg/kg	Rabbit	
EC: 919-446-0	LC50 inhalation	5000 mg/L (4 h)	Rat	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Identification		Acute toxicity	Specie	Genus
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	LC50	1 - 10 mg/L (96 h)		Fish
CAS: Non-applicable	EC50	1 - 10 mg/L		Crustacean
EC: 919-446-0	EC50	1 - 10 mg/L		Alga
Amines, N-tallow alkyltrimethylenedi-	LC50	0,1 - 1 mg/L (96 h)		Fish
CAS: 61791-55-7	EC50	0,1 - 1 mg/L		Crustacean
EC: 263-189-0	EC50	0,1 - 1 mg/L		Alga

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

Date of compilation: 20.2.2015

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste type (directive 2008/98/EU)
16 05 08*	Discarded organic chemicals consisting of or containing dangerous substances	Dangerous
08 04 09*	Waste adhesives and sealants containing organic solvents or other dangerous substances	Dangerous
17 09 03* 17 03 02	Other construction and demolition wastes (including mixed wastes) containing dangerous substances Bituminous mixtures other than those mentioned in 17 03 01	Dangerous



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SECTION 13: DISPOSAL CONSIDERATIONS (continue)

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2000/532/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) $n^01907/2006$ (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2013 and RID 2013:



14.1 UN number: UN1999

14.2 UN proper shipping name: TARS, LIQUID, including road asphalt and oils, bitumen and cut backs

14.3 Transport hazard class(es): 3

Labels: 3 **14.4 Packing group:** I **14.5 Dangerous for the** Yes

14.6 Special precautions for user

environment:

Special regulations: Non-applicable

Tunnel restriction code: D/E

Physico-Chemical properties: see section 9

Limited quantities: 0

14.7 Transport in bulk according to Non-applicable

Annex II of MARPOL 73/78 and the IBC Code:

Transport of dangerous goods by sea:

With regard to IMDG 36-12:

14.1 UN number: UN1999

14.2 UN proper shipping name: TARS, LIQUID, including road asphalt and oils, bitumen and cut backs



14.3 Transport hazard class(es): 3

Labels: 3 **14.4 Packing group:** I

14.5 Dangerous for the Yes

environment:

14.6 Special precautions for user

Special regulations:

EmS Codes:

Physico-Chemical properties:

Non-applicable

F-E, S-E

see section 9

Limited quantities: 0

14.7 Transport in bulk according to Non-applicable

Annex II of MARPOL 73/78

and the IBC Code:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2014:



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SECTION 14: TRANSPORT INFORMATION (continue)



14.1 UN number: UN1999

14.2 UN proper shipping name: TARS, LIQUID, including road asphalt and oils, bitumen and cut backs

14.3 Transport hazard class(es): 3

Labels: 3 **14.4 Packing group:** I **14.5 Dangerous for the** Yes

environment:

14.6 Special precautions for user

Physico-Chemical properties: see section 9

14.7 Transport in bulk according to Non-applicable

Annex II of MARPOL 73/78

and the IBC Code:

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

Regulation (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopee" cushions,
- silly string aerosols,
- imitation excrement,horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009, 2009 No. 716

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885 Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits

The Waste Regulations 2011, 2011 No. 988

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 453/2010)

Modifications related to the previous security card which concerns the ways of managing risks. :

Non-applicable



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SECTION 16: OTHER INFORMATION (continue)

Text of R-phrases considered in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

Directive 67/548/EC and Directive 1999/45/EC:

R10: Flammable

R22: Harmful if swallowed

R34: Causes burns

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation

R50: Very toxic to aquatic organisms

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

R65: Harmful: may cause lung damage if swallowed

R66: Repeated exposure may cause skin dryness or cracking

R67: Vapours may cause drowsiness and dizziness

CLP Regulation (EC) no 1272/2008:

Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways

Flam. Liq. 3: H226 - Flammable liquid and vapour

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

STOT SE 3: H336 - May cause drowsiness or dizziness

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://esis.jrc.ec.europa.eu http://echa.europa.eu http://eur-lex.europa.eu

Abbreviations and acronyms:

- ADR: European agreement concerning the international carriage of dangerous goods by road
- -IMDG: International maritime dangerous goods code
- -IATA: International Air Transport Association
- -ICAO: International Civil Aviation Organisation
- -COD: Chemical Oxygen Demand
- -BOD5: 5-day biochemical oxygen demand
- -BCF: Bioconcentration factor
- -LD50: Lethal Dose 50
- -CL50: Lethal Concentration 50
- -EC50: Effective concentration 50
- -Log-POW: Octanol—water partition coefficient
- -Koc: Partition coefficient of organic carbon

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.