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		<u> </u>
	Safety data sheet	
SECTION 1. Identification of the sub	stance/mixture and of the company/under	taking
<b>1.1. Product identifier</b> Product name	1000H HARDENER	
1.2. Relevant identified uses of the substance or n   Intended use Aromatic polyurethan		
<b>1.3. Details of the supplier of the safety data sheet</b> Name Full address District and Country	Inkcups CORPORATION 310 Andover Street Danvers, MA. 01923	
	USA	
	Tel. 9786468980	
	Fax 9786468981	
e-mail address of the competent person		
responsible for the Safety Data Sheet Product distribution by	Info@inkcups.com	
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	Chemtrec 800-424-9300	
SECTION 2. Hazards identification.		

#### 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

### 2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:

Flam. Liq. 3	H226
Acute Tox. 4	H332
Eye Irrit. 2	H319
Skin Irrit. 2	H315
Resp. Sens. 1	H334
Skin Sens. 1	H317

## 2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols: Xn R phrases: 10-20/21-36-42/43-48/20-65

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

2.2. Label elements.

## Revision nr. 8 NKCUPS Dated 23/3/2015 Printed on 23/03/2015 1000H Hardener Page n. 2/13 Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements. Hazard pictograms: Signal words: Danger Hazard statements: H226 Flammable liquid and vapour. H332 Harmful if inhaled. H319 Causes serious eye irritation. H315 Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334 H317 May cause an allergic skin reaction. EUH204 Contains isocyanates. May produce an allergic reaction. EUH208 Contains: m-Tolilidene diisocyanate May produce an allergic reaction. Precautionary statements: P210 Keep away from heat / sparks / open flames / hot surfaces. No smoking. P280 Wear protective gloves / protective clothing / eye protection / face protection. P333+P313 If skin irritation or rash occurs: Get medical advice / attention. P337+P313 If eye irritation persists: Get medical advice / attention. P370+P378 In case of fire: Use CO2, chemical powder for extinction. P501 Dispose of contents / container in accordance with the regulations. XYLENE (MIXTURE OF ISOMERS) Contains: Aromatic polyurethane adduct 2.3. Other hazards. Information not available. **SECTION 3.** Composition/information on ingredients. 3.1. Substances. Information not relevant. 3.2. Mixtures. Contains: Identification. Conc. %. Classification 67/548/EEC. Classification 1272/2008 (CLP). Aromatic polyurethane adduct

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CAS. 53317-61-6 EC. 500-120-8	66 - 70	Xi R36, Xi R43	Eye Irrit. 2 H319, Skin Sens. 1 H317
INDEX			
XYLENE (MIXTURE OF ISOMERS)			
CAS. 1330-20-7	16,5 - 18	R10, Xn R20/21, Xn R48/20, Xn R65, Xi R36/37/38, Note C	4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335,
EC. 215-535-7			Note C
INDEX. 601-022-00-9			
Reg. no. 01-2119488216-32xxxx			
2-METHOXY-1-METHYLETHYL ACETATE			
CAS. 108-65-6 EC. 203-603-9	16,5 - 18	R10	Flam. Liq. 3 H226
INDEX. 607-195-00-7			
Reg. no. 01-2119475791-29-xxxx			
m-Tolilidene diisocyanate			
CAS. 26471-62-5	0,4 - 0,5	Carc. Cat. 3 R40, T+ R26, Xn R42/43, Xi R36/37/38	Carc. 2 H351, Acute Tox. 2 H330, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Aquatic Chronic 3 H412
EC. 247-722-4			
INDEX. 615-006-00-4			

Reg. no. 01-2119454791-34-xxxx

Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet. T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

## **SECTION 4. First aid measures.**

#### 4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

#### 4.3. Indication of any immediate medical attention and special treatment needed.

Information not available.

## **SECTION 5. Firefighting measures.**

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

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Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

### 5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

### 5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6.** Accidental release measures.

### 6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage.**

### 7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

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7.3. Specific end use(s).

Information not available.

## **SECTION 8. Exposure controls/personal protection.**

### 8.1. Control parameters.

Regulatory References:

United Kingdom	EH40/2005 Workplace exposure limits. Containing the list of workplace exposure
	limits for use with the Control of Substances Hazardous to Health Regulations (as
	amended).
Eire	Code of Practice Chemical Agent Regulations 2011.
OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive
	2000/39/EC.
TLV-ACGIH	ACGIH 2012

## 2-METHOXY-1-METHYLETHYL ACETATE

Threshold Limit Value.								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	275	50	550	100	SKIN		
OEL	IRL	275	50	550	100	SKIN		
WEL	UK	274	50	548	100			
Predicted no-effect concentratio	n - PNEC.							
Normal value for the terrestrial of Normal value in fresh water Normal value for water, intermitt Normal value in marine water Normal value for fresh water seo Normal value for marine water s Normal value of STP microorgan	ent release diment ediment nisms			0,29 0,635 6,35 0,0635 3,29 0,329 100		mg/k mg/l mg/l mg/k mg/l mg/l	_	
Health - Derived no-effect	Effects on	DMEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	1,67 mg/kg		-,		-,
Inhalation.			VND	33 mg/m3			VND	272 mg/m3
Skin.			VND	54,8 mg/kg			VND	153,5 mg/kg

## XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value. Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		434	100	651	150	
OEL	EU	221	50	442	100	SKIN
OEL	IRL	221	50	442	100	SKIN
WEL	UK	220	50	441	100	
Predicted no-effect concentration - PNEC.						
Normal value for the terrestrial compartment Normal value in fresh water Normal value for water, intermittent release Normal value in marine water				2,31 0,327 0,327 0,327		mg/kg mg/l mg/l mg/l

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Normal value for fresh water	r sediment			12,46		mg/kg	3	
Normal value for marine wat				12,46		mg/kg	9	
Normal value of STP microo				6,58		mg/l		
Health - Derived no-effe	ect level - DNEL / D	DMEL						
	Effects on				Effects on			
	consumers.				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral.			VND	1,6 mg/kg/d				
Inhalation.	174 mg/m3	174 mg/m3	VND	14,8 mg/m3	289 mg/m3	289 mg/m3	77 mg/m3	77 mg/m3
Skin.	174 mg/m3	174 mg/m3	VND	108 mg/kg/d	174 mg/m3	VND	VND	180 mg/kg
Skill.			VILL	100 mg/ng/u	n 4 mg/mo	VIND	VIND	roo mg/kg
m-Tolilidene diisocyana	ate							
Threshold Limit Value.								

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		0,036	0,005	0,14	0,02

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with

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standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

## **SECTION 9.** Physical and chemical properties.

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

Appearance Colour Odour	liquid colourle typical o
Odour threshold.	Not ava
pH.	Not avai
Melting point / freezing point.	Not avai
Initial boiling point.	> 130 °C
Boiling range.	Not avai
Flash point.	38.5 °C.
Evaporation Rate	Not avai
Flammability of solids and gases	Not avai
Lower inflammability limit.	Not avai
Upper inflammability limit.	Not avai
Lower explosive limit.	1 % (V/\
Upper explosive limit.	7 % (V/\
Vapour pressure.	Not avai
Vapour density	>1
Relative density.	1,130 K
Solubility	insoluble
Partition coefficient: n-octanol/water	Not avai
Auto-ignition temperature.	Not avai
Decomposition temperature.	Not ava
Viscosity	Not avai
Explosive properties	Not avai
Oxidising properties	Not avai

ess of solvent ailable. ailable. ilable. C ailable. ailable. ailable. ailable. ailable. ∕∨). /V). ailable. g/I le in water ilable. ailable. ailable. ilable. ailable. ilable.

#### 9.2. Other information.

Information not available.

## **SECTION 10. Stability and reactivity.**

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

1-METHOXY-2-PROPANOL ACETATE: stable but with the air it may slowly develop peroxides that explode with an increase in temperature.

### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air. 1-METHOXY-2-PROPANOL ACETATE: may react violently with oxidising agents and strong acids and alkaline metals.

### 10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

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1-METHOXY-2-PROPANOL ACETATE: store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

10.5. Incompatible materials.

1-METHOXY-2-PROPANOL ACETATE: oxidising agents, strong acids and alkaline metals.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## **SECTION 11. Toxicological information.**

#### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product. Acute effects: inhalation of this product is harmful.

Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness. In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Vapour inhalation may moderately irritate the upper respiratory trait. Contact with skin may cause slight irritation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory trait. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Inhalation of this product causes sensitization, which may then give rise to a series of inflammatory episodes, most of all characterized by obstruction and affecting the respiratory system. Sometimes, sensitization phenomena arise together with evident rhinitis and asthma. Damages to the respiratory system depend on the inhaled quantity, on the product concentration in the working environment and on the exposure time.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

1-METHOXY-2-PROPANOL ACETATE: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

m-Tolilidene diisocyanate LD50 (Oral). 6170 mg/Kg

XYLENE (MIXTURE OF ISOMERS) LD50 (Oral). 5627 mg/kg Rat LD50 (Dermal). > 5000 mg/kg Rabbit LC50 (Inhalation). 20 mg/l/4h Rat

2-METHOXY-1-METHYLETHYL ACETATE LD50 (Oral). > 5000 mg/kg Ratto / Rat LD50 (Dermal). > 2000 mg/kg Ratto / Rat

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LC50 (Inhalation). > 4345 ppm/6h Ratto / Rat

## **SECTION 12. Ecological information.**

### 12.1. Toxicity.

XYLENE (MIXTURE OF ISOMERS) LC50 - for Fish. 2,6 mg/l/96h Fish EC50 - for Crustacea. 1 mg/l/48h Daphnia magna EC10 for Algae / Aguatic Plants. 1,9 mg/l/72h Selenastrum capricornutum 2-METHOXY-1-METHYLETHYL ACETATE LC50 - for Fish. 134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203 EC50 - for Crustacea. > 500 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants. > 1000 mg/l/72h Selenastrum capricornutum OECD 201 Chronic NOEC for Fish. 47,5 mg/l Oryzias latipes 14 gg OECD 204 Chronic NOEC for Crustacea. 100 mg/l Dapnia magna 21 gg OECD 202

#### 12.2. Persistence and degradability.

XYLENE (MIXTURE OF ISOMERS) Rapidly biodegradable.

2-METHOXY-1-METHYLETHYL ACETATE Solubility in water. 198000 mg/l Rapidly biodegradable. **12.3. Bioaccumulative potential.** 

2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water. 1,2 mg/l

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%. **12.6. Other adverse effects.** 

Information not available.

## **SECTION 13. Disposal considerations.**

13.1. Waste treatment methods.

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Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Avoid littering. Do not contaminate soil, sewers and waterways.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information.**

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

load ar	nd rail transport:			
٢	ADR/RID Class:	3	UN:	1866
1	Packing Group:	Ш		
	Label:	3		
	Nr. Kemler:	30		
	Limited Quantity.	5 L		
	Tunnel restriction code.	(D/E)		
	Proper Shipping Name:	RESIN SOLUT	ION	
	Special Provision:	640E		
arriag	e by sea (shipping):			
٢	IMO Class:	3	UN:	1866
<b>V</b>	Packing Group:	Ш		
	Label:	3		
	EMS:	F-E ,	<u>S-E</u>	
	Marine Pollutant.	NO		
	Proper Shipping Name:	RESIN SOLUT	ION	
ranspo	ort by air:			
٢	IATA:	3	UN:	1866
~	Packing Group:	Ш		
	Label:	3		
	Cargo:			
	Packaging instructions:	366	Maximum quantity:	220 L
	Pass.:			
	Packaging instructions:	355	Maximum quantity:	60 L
	Special Instructions:	A3		
	Proper Shipping Name:	RESIN SOLUT	ION	

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## **SECTION 15. Regulatory information.** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture. 6 Seveso category. Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006. Product. 3 - 40 Point. Substances in Candidate List (Art. 59 REACH). None. Substances subject to authorisarion (Annex XIV REACH). None. Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None. Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None. Healthcare controls. Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

## **SECTION 16.** Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
Carc. 2	Carcinogenicity, category 2
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2

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Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H351	Suspected of causing cancer.
H330	Fatal if inhaled.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
EUH204	Contains isocyanates. May produce an allergic reaction.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R10	FLAMMABLE.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R26	VERY TOXIC BY INHALATION.
R36	IRRITATING TO EYES.
R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
Carc. Cat. 3	Carcinogenicity, category 3.
R40	LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.
R42/43	MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
R43	MAY CAUSE SENSITISATION BY SKIN CONTACT.
R48/20	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED
R65	EXPOSURE THROUGH INHALATION. HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

CAS NUMBER: Chemical Abstract Service Number

CE50: Effective concentration (required to induce a 50% effect)

CE NUMBER: Identifier in ESIS (European archive of existing substances)

CLP: EC Regulation 1272/2008 DNEL: Derived No Effect Level

EmS: Emergency Schedule GHS: Globally Harmonized System of classification and labeling of chemicals

- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods

IMO: International Maritime Organization

INDEX NUMBER: Identifier in Annex VI of CLP

LC50: Lethal Concentration 50%

- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level

### Revision nr. 8 NKCUPS Dated 23/3/2015 Printed on 23/03/2015 1000H Hardener Page n. 13/13 PBT: Persistent bioaccumulative and toxic as REACH Regulation PEC: Predicted environmental Concentration PEL: Predicted exposure level PNEC: Predicted no effect concentration REACH: EC Regulation 1907/2006 RID: Regulation concerning the international transport of dangerous goods by train TLV: Threshold Limit Value TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure. TWA STEL: Short-term exposure limit TWA: Time-weighted average exposure limit VOC: Volatile organic Compounds vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation WGK: Water hazard classes (German). GENERAL BIBLIOGRAPHY 1. Directive 1999/45/EC and following amendments 2. Directive 67/548/EEC and following amendments and adjustments 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament 4. Regulation (EC) 1272/2008 (CLP) of the European Parliament 5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 6. Regulation (EC) 453/2010 of the European Parliament 7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament

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- 10. Handling Chemical Safety
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- 14. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
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- FOR PROFESSIONAL USE ONLY

This safety data sheet is prepared in accordance with the instructions provided on the relevant safety data sheets by our suppliers.

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review: The following sections were modified:

02 / 11 / 12.