

U-Primer 110

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Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Product name U-Primer 110

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

Intended use One component liquid, polyurethane in solvent, adhesion promoter for porous

surfaces.

Identified Uses Industrial **Professional** Consumer **CLEANERS AND ADHESION PROMOTERS** FORMULATIONS IN INDUSTRY SU: 10. ERC: 2. PROC: 3, 4, 5, 8a, 8b, 9. PC: 14 15 **INDUSTRIAL USES OF CLEANERS AND ADHESION PROMOTERS** SU: 15, 17, 19. SU: 15, 17, 19. ERC: 8b. ERC: 8b. PROC: 10. PROC: 10. PC: 14, 15. PC: 14, 15. **CHEMICAL SUBSTANCE USE IN** LABORATORY, INDUSTRIAL PROC: 15.

1.3. Details of the supplier of the safety data sheet

Name N.P.T. S.R.L. A SOCIO UNICO

Full address via Guido Rossa 2

District and Country 40053 Valsamoggia - Loc. Crespellano (BO)

PC: 14, 15.

Italy

Tel. +39 051 969109 Fax +39 051 969837

e-mail address of the competent person

responsible for the Safety Data Sheet infoSDS@nptsrl.com

1.4. Emergency telephone number

For urgent inquiries refer to Laboratories and manufactory plant - Gropello Cairoli (PV)

+39 0382 815132 (avaiable from Monday to Friday, only in the following office hours:

8.30-12.30, 13.30-17.00).

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 (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Acute toxicity, category 4	H332	Harmful if inhaled.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Respiratory sensitization, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.



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SECTION 2. Hazards identification .../>>

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:







Signal words: Danger

Hazard statements:

H225 Highly 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

May cause an allergic skin reaction. H317 H336 May cause drowsiness or dizziness.

EUH204 Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

Wear protective gloves/ protective clothing / eye protection / face protection. P280 P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: call a POISON CENTER / doctor / . . . P370+P378 In case of fire: use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Contains: AROMATIC POLYISOCYANATE

POLITOLUEN-ISOCYANATE (OLIGOMERS)

M-TOLYLIDENE DIISOCYANATE METHYL ETHYL KETONE TOSYL ISOCYANATE

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

METHYL ETHYL KETONE

CAS 78-93-3 $30 \le x < 32,5$ Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 201-159-0 INDEX 606-002-00-3 01-2119457290-43 Reg. no.

POLITOLUEN-ISOCYANATE (OLIGOMERS)

CAS 53317-61-6 $24 \le x < 25,5$ Eye Irrit. 2 H319, Skin Sens. 1 H317

EC

INDEX

AROMATIC POLYISOCYANATE

Skin Sens. 1 H317 103051-64-5 $16,5 \le x < 18$ CAS

EC INDEX



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SECTION 3. Composition/information on ingredients .../>>

XYLENE (MIXTURE OF ISOMERS)

 $12 \le x < 13,5$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, CAS 1330-20-7

Classification note according to Annex VI to the CLP Regulation: C

FC 215-535-7 INDEX 601-022-00-9

01-2119488216-32-XXXX Reg. no. 2-METHOXY-1-METHYLETHYL ACETATE

Flam. Liq. 3 H226 CAS 108-65-6 $12 \le x < 13.5$

EC 203-603-9 INDEX 607-195-00-7 M-TOLYLIDENE DIISOCYANATE

26471-62-5 $0,25 \le x < 0,3$ CAS

Carc. 2 H351, Acute Tox. 1 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 **TOSYL ISOCYANATE**

CAS 4083-64-1 $0.2 \le x < 0.25$

223-810-8 FC INDEX 615-012-00-7 Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, EUH014

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

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

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).



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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.

Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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. If the product is flammable, use explosion-proof equipment. 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. 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

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

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. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

Storage class TRGS 510 (Germany):

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 7 czerwca 2017 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes



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SECTION 8. Exposure controls/personal protection .../>>

químicos no trabalho - Diaro da Republica I 26; 2012-02-06

SWE Sverige Occupational Exposure Limit Values, AF 2011:18

EU OEL EU Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC;

Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 2017

METHYL ETHYL KETONE									
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15	min				
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	600	200	600	200	SKIN			
MAK	DEU	600	200	600	200	SKIN			
VLA	ESP	600	200	900	300				
VLEP	FRA	600	200	900	300	SKIN			
WEL	GBR	600	200	899	300	SKIN			
TLV	GRC	600	200	900	300				
GVI	HRV	600	200	900	300	SKIN			
VLEP	ITA	600	200	900	300				
NDS	POL	450		900					
VLE	PRT	600	200	900	300				
MAK	SWE	150	50	300	100				
OEL	EU	600	200	900	300				
TLV-ACGIH		590	200	885	300				
Predicted no-ef			С						
Normal value							55,8	mg/l	
Normal value							284,74	mg/kg	
Normal value			-				284,7	mg/kg	
Normal value			ase				55,8	mg/l	
Normal value							709	mg/l	
Normal value							22,5	mg/kg	
Health - Derived	d no-effect le	vel - DNEL /	DMEL						
		ects on consi	umers			Effects on work			
Route of expo				Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loc	al sys	stemic	local	systemic		systemic	local	systemic
Oral				VND	31				
					mg/kg bw/d				
Inhalation				VND	106			VND	600
					mg/m3				mg/m3
Skin				VND	412			VND	1161
					mg/kg bw/d				mg/kg
									bw/d

2-METHOXY-1-METHYLETHYL ACETATE										
Threshold Limit Value										
Type	Country	TWA/8h		STEL/15	min					
		mg/m3	ppm	mg/m3	ppm					
AGW	DEU	270	50	270	50					
MAK	DEU	270	50	270	50					
VLA	ESP	275	50	550	100	SKIN				
VLEP	FRA	275	50	550	100	SKIN				
WEL	GBR	274	50	548	100					
TLV	GRC	275	50	550	100					
VLEP	ITA	275	50	550	100	SKIN				
OEL	NLD	550								
NDS	POL	260		520						
VLE	PRT	275	50	550	100	SKIN				
MAK	SWE	250	50	400	75	SKIN				
OEL	EU	275	50	550	100	SKIN				



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SECTION 8. Exposure controls/personal protection .../>>

XYLENE (MIXTURE OF ISOMERS)								
Threshold Limit	Value							
Type	Country	TWA/8h		STEL/15	min			
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	440	100	880	200	SKIN		
MAK	DEU	440	100	880	200	SKIN		
VLA	ESP	221	50	442	100	SKIN		
VLEP	FRA	221	50	442	100	SKIN		
WEL	GBR	220	50	441	100			
TLV	GRC	435	100	650	150			
GVI	HRV	221	50	442	100	SKIN		
VLEP	ITA	221	50	442	100	SKIN		
OEL	NLD	210		442		SKIN		
NDS	POL	100						
VLE	PRT	221	50	442	100	SKIN		
MAK	SWE	221	50	442	100	SKIN		
OEL	EU	221	50	442	100	SKIN		
TLV-ACGIH		434	100	651	150			

M-TOLYLIDENE DIISOCYANATE									
Threshold Limi	it Value								
Type	Country	TWA/8h		STEL/15n	nin				
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	0,035	0,005	0,14 (C)	0,02 (C)	INHAL			
VLA	ESP	0,036	0,005	0,14	0,02				
VLEP	FRA	0,08	0,01	0,16	0,02				
VLEP	ITA	0,16	0,02	0,01					
NDS	POL	0,007		0,021					
MAK	SWE	0,014	0,002	0,04 (C)	0,005 (C)				

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.

HAND PROTECTION

Protect your hands with work gloves, category III (ref. standard EN 374). For the final choice of material you need to assess the type of use. In case of contact for the short term or as protection against splashes, use gloves made of nitrile (0.3mm thickness, permeation time >480 min.). In the event of continued exposure use butyl rubber gloves (0.4mm thickness, permeation time> 480 min.). Contaminated gloves should be removed.

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

In case of exceeding the threshold value (eg, TLV-TWA) of the substance or one or more of the substances present in the product, it is advisable to wear a mask with filter type A for organic vapors, the class (1, 2 or 3) must be chosen according to the limit concentration of use (1000, 5000 or 10000 ppm) (ref. standard EN 14387).

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid
Colour straw-coloured
Odour typical of solvent



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SECTION 9. Physical and chemical properties .../>>

Odour threshold Not available Not available рΗ Melting point / freezing point Not available Initial boiling point 35 Boiling range Not available Flash point °C 23 Evaporation rate Not available Flammability (solid, gas) Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit % (V/V) Upper explosive limit 8 % (V/V) Vapour pressure 110 kPa - 50 °C

Vapour density Not available

Relative density 0,97

Solubility

Partition coefficient: n-octanol/water

Auto-ignition temperature

Viscosity

Explosive properties

Oxidising properties

Not available

Not available

Not available

Not available

Not available

Not available

9.2. Other information

 VOC (Directive 2010/75/EC):
 57,73 % - 560,02
 g/litre

 VOC (volatile carbon):
 40,01 % - 388,13
 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

METHYL ETHYL KETONE

Reacts with: light metals, strong oxidants. Attacks various types of plastic materials. Decomposes under the effect of heat.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

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.

M-TOLYLIDENE DIISOCYANATE SADT = 230°C/446°F.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

METHYL ETHYL KETONE

May form peroxides with: air,light,strong oxidising agents.Risk of explosion on contact with: hydrogen peroxide,nitric acid,sulphuric acid.May react dangerously with: oxidising agents,trichloromethane,alkalis.Forms explosive mixtures with: air.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

10.4. Conditions to avoid

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

METHYL ETHYL KETONE

Avoid exposure to: sources of heat.



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SECTION 10. Stability and reactivity .../>>

10.5. Incompatible materials

METHYL ETHYL KETONE

Incompatible with: strong oxidants, inorganic acids, ammonia, copper, chloroform.

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, 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

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation: contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

Interactive effects

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: 13,84 mg/l

LD50 (Oral) of the mixture: Not classified (no significant component)

LD50 (Dermal) of the mixture: >2000 mg/kg

POLITOLUEN-ISOCYANATE (OLIGOMERS)

LC50 (Inhalation) > 2,462 mg/l/4h Rattus sp.

XYLENE (MIXTURE OF ISOMERS)

 LD50 (Oral)
 3523 mg/kg Rat

 LD50 (Dermal)
 4350 mg/kg Rabbit

 LC50 (Inhalation)
 26 mg/l/4h Rat

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Oral) 8530 mg/kg Rat LD50 (Dermal) > 5000 mg/kg Rat



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SECTION 11. Toxicological information .../>>

M-TOLYLIDENE DIISOCYANATE

LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) 4130 mg/kg Mouse > 9400 mg/kg Rabbit 0,48 mg/l Rat

METHYL ETHYL KETONE

LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) 2737 mg/kg Rattus sp. 6480 mg/kg Oryctolagus sp. 23,5 mg/l/8h Rattus sp.

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin Sensitising for the respiratory system May produce an allergic reaction. Contains:

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

12.1. Toxicity

XYLENE (MIXTURE OF ISOMERS)

LC50 - for Fish 2 mg/l/96h

M-TOLYLIDENE DIISOCYANATE

LC50 - for Fish

133 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea

18,3 mg/l/48h Americamysis bahia
EC50 - for Algae / Aquatic Plants

4000 mg/l/72h Chlorella vulgaris

@EPY 9.6.5 - SDS 1004.9



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SECTION 12. Ecological information .../>>

METHYL ETHYL KETONE

LC50 - for Fish 2993 mg/l/96h Pimephales promelas 308 mg/l/48h Daphnia magna EC50 - for Crustacea

12.2. Persistence and degradability

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Degradability: information not available

2-METHOXY-1-METHYLETHYL ACETATE

> 10000 mg/l Solubility in water

Rapidly degradable

M-TOLYLIDENE DIISOCYANATE

Solubility in water 0,1 mg/l

Entirely degradable

METHYL ETHYL KETONE

Solubility in water > 10000 mg/l

Rapidly degradable

TOSYL ISOCYANATE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12 25,9

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2

M-TOLYLIDENE DIISOCYANATE

Partition coefficient: n-octanol/water 3,43

METHYL ETHYL KETONE

0,3 Partition coefficient: n-octanol/water

TOSYL ISOCYANATE

0,6 Partition coefficient: n-octanol/water

12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

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

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.

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.



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SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 1866

14.2. UN proper shipping name

ADR / RID: RESIN SOLUTION IMDG: RESIN SOLUTION IATA: RESIN SOLUTION

14.3. Transport hazard class(es)

ADR / RID·

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

Class: 3

Label: 3



Limited Quantities: 5 L

Limited Quantities: 5 L

14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33

Special Provision: 640D

IMDG: EMS: F-E, <u>S-E</u>

IATA: Cargo:

Cargo: Maximum quantity: 60 L Pass.: Maximum quantity: 5 L

Special Instructions: A3

Tunnel restriction code: (D/E)

Packaging instructions: 364 Packaging instructions: 353

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisarion (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None



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SECTION 15. Regulatory information .../>>

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. 2
Flam. Liq. 3
Flammable liquid, category 2
Flam. Liq. 3
Carc. 2
Carcinogenicity, category 2
Acute Tox. 1
Acute Tox. 4
Eye Irrit. 2
Skin Irrit. 2
Flammable liquid, category 3
Carcinogenicity, category 2
Acute toxicity, category 1
Acute toxicity, category 4
Eye Irritation, category 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

H225Highly flammable liquid and vapour.H226Flammable liquid and vapour.H351Suspected of causing cancer.

H330 Fatal if inhaled.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

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.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

EUH014 Reacts violently with water.

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH204 Contains isocyanates. May produce an allergic reaction.

Use descriptor system:

ERC 2 Formulation of preparations

ERC 8b Wide dispersive indoor use of reactive substances in open systems

PC 14 Metal surface treatment products, including galvanic and electroplating products

PC 15 Non-metal-surface treatment products

PROC 10 Roller application or brushing
PROC 15 Use as laboratory reagent

PROC 3 Use in closed batch process (synthesis or formulation)

PROC 4 Use in batch and other process (synthesis) where opportunity for exposure arises

PROC 5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant

contact)

PROC 8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated

facilities

PROC 9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
 SU 10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
 SU 15 Manufacture of fabricated metal products, except machinery and equipment

SU 17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment

SU 19 Building and construction work

LEGEND:

PROC 8b

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



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SECTION 16. Other information .../>>

- 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
- 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

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- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
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- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

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.



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SECTION	16	Other	information	/ >>

Changes to previous review:

The following sections were modified:

01/02/03/04/06/07/08/09/10/11/12/14/15/16.