

DP 8111 Redidlo pro PU laky

Revision nr.5 Dated 18/11/2019 Printed on 02/12/2019 Page n. 1 / 13

Page n. 1 / 13 Replaced revision:4 (Dated 26/04/2017)

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 DP 8111 Redidlo pro PU laky

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

Intended use THINNER.

1.3. Details of the supplier of the safety data sheet

Name CHIMEN SRL
Full address via Kennedy 67

District and Country 30027 San Donà di Piave (VE)

ITALIA Tel. 0421/41442 Fax 0421/43898

e-mail address of the competent person

responsible for the Safety Data Sheet laboratorio@chimen.it

1.4. Emergency telephone number

For urgent inquiries refer to Centro Antiveleni per il territorio Italiano:

Roma - CAVp Osp. Pediatrico Bambino Gesù- tel. 06 68593726

Foggia - Az. Osp. Univ. Foggia - tel. 0881-732326 Napoli - Az. Osp. A. Cardarelli - tel. 081-7472870 Roma - CAV Policlinico Umberto I - tel. 06-49978000 Roma - CAV Policlinico A. Gemelli - tel. 06-3054343

Firenze - Az. Osp. Careggi U.O. Tossicologia Medica - tel. 055-7947819 Pavia - CAV Centro Nazionale di Informazione Tossicologica - tel. 0382-24444

Milano - Osp. Niguarda Ca' Granda - 02-66101029

Bergamo - Azienda Ospedaliera Papa Giovanni XXII - tel. 800883300

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. Reproductive toxicity, category 2 H361d Suspected of damaging the unborn child. Aspiration hazard, category 1 H304 May be fatal if swallowed and enters airways. Specific target organ toxicity - repeated exposure, H373 May cause damage to organs through prolonged or category 2 repeated exposure. Eye irritation, category 2 Causes serious eye irritation. H319 Skin irritation, category 2 H315 Causes skin irritation. H336 Specific target organ toxicity - single exposure, May cause drowsiness or dizziness.

category 3 2.2. Label elements

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

Hazard pictograms:









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SECTION 2. Hazards identification .../>>

Signal words: Danger

Hazard statements:

H225 Highly flammable liquid and vapour.
 H361d Suspected of damaging the unborn child.
 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.

H336 May cause drowsiness or dizziness.

Precautionary statements:

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

P260 Do not breathe fume / gas / mist / vapours / spray.

P331 Do NOT induce vomiting.

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

P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor.

P370+P378 In case of fire: Use water spray, foam, dry chemical or carbon dioxide (CO2) to extinguish.

Contains: TOLUENE

ETHYL ACETATE ISOBUTYL ACETATE

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)

TOLUENE

CAS 108-88-3 45 ≤ x < 65 Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373,

Skin Irrit. 2 H315, STOT SE 3 H336

EC 203-625-9 INDEX 601-021-00-3 Rea. no. 01-2119471310-51

ISOBUTYL ACETATE

CAS 110-19-0 $30 \le x < 45$ Flam. Liq. 2 H225, STOT SE 3 H336, EUH066

EC 203-745-1 INDEX 607-026-00-7 Reg. no. 01-2119488971-22

ETHYL ACETATE

CAS 141-78-6 20 ≤ x < 30 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4 INDEX 607-022-00-5 Reg. no. 01-2119475103-46

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 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.



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SECTION 4. First aid measures .../>>

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

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).

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. Use explosion-proof equipment. 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. 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.



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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. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. 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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation 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. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and 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.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
HRV	Hrvatska	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/18)
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
SVN	Slovenija	Uradni list Republike Slovenije 04.12.2018 - Uradnem listu RS št. 78 -PRAVILNIK o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
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 2019



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SECTION 8. Exposure controls/personal protection

				то	LUENE				
reshold Limit		TIALA (C)		0.751 //-			O		
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations			
T1 \ /	075	mg/m3	ppm	mg/m3	ppm	OLGINI			
TLV	CZE	200	53,2	500	133	SKIN			
AGW	DEU	190	50	760	200	SKIN			
MAK	DEU	190	50	760	200	SKIN			
VLA	ESP	192	50	384	100	SKIN			
VLEP	FRA	76,8	20	384	100	SKIN			
WEL	GBR	191	50	384	100	SKIN			
GVI/KGVI	HRV	192	50	384	100	SKIN			
VLEP	ITA	192	50			SKIN			
MV	SVN	192	50	384	100	SKIN			
OEL	EU	192	50	384	100	SKIN			
TLV-ACGIH		75,4	20						
edicted no-effe	ect concentra	ation - PNE	С						
Normal value i	n fresh water						0,68	mg/l	
Normal value i	n marine wate	er					0,68	mg/l	
Normal value f	r sediment					16,39	mg/kg		
Normal value f	or marine wa	ter sedimen	t				16,39	mg/kg	
Normal value f	or water, inte	rmittent rele	ase				0,68	mg/l	
Normal value of	of STP microo	organisms					13,61	mg/l	
Normal value for the terrestrial compartment							2,89	mg/kg	
ealth - Derived	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on workers			
Route of expos	sure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
•	loca	ıl svs	stemic	local	systemic	local	systemic	local	systemic
Oral		,		VND	8,13		,		,
					mg/kg bw/d				
Inhalation	226	22	3	56,5	56,5	384	384	192	192
	mg/		/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	VNI			VND	226	VND	VND	VND	384
±:	· · · · ·	- •••	-		mg/kg bw/d	· · · ·			mg/kg
					9.119 211/4				bw/d

				ISOROLA	L ACETATE				
eshold Limit Val		T14/4/61		0.751 // 5					
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
	CZE	950	200,45	1200	253,2				
	DEU	300	62	600 (C)	124 (C)				
	ESP	724	150						
	FRA	710	150	940	200				
	GBR	724	150	966	200				
	HRV	724	150	903	187				
	SVN	300	62	600	124				
TLV-ACGIH			50		150				
dicted no-effect	concentra	ation - PNE	С						
Normal value in fr	esh water						0,17	mg/l	
Normal value in m	narine wate	er					0,017	mg/l	
Normal value for f	resh water	r sediment					0,877	mg/kg/d	
Normal value for r	marine wa	ter sedimen					0,088	mg/kg/d	
Normal value for v	water, inte	rmittent rele	ase				0,34	mg/l	
Normal value of S	TP microc	rganisms					200	mg/l	
Normal value for t	he terrestr	rial comparti	nent				0,075	mg/kg/d	
alth - Derived no-	effect lev	el - DNEL /	DMEL						
	Effe	cts on consi	ımers		Effects on wor		rkers		
Route of exposure	e Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	ıl sys	stemic	local	systemic	local	systemic	local	systemic
Oral		5		VND	5				
		mg	/kg bw/d		mg/kg bw/d				
Inhalation	300	30)	35,7	35,7	600	600	300	300
	mg/	m3 mg	/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	NPI	5		NPI	5	-	10	NPI	10
		mo	/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
			U · ·		5 5		bw/d		bw/d



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SECTION 8. Exposure controls/personal protection

				ETHYL	ACETATE				
reshold Limit	Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	700	194,6	900	250,2				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	1400	400						
WEL	GBR	734	200	1468	400				
GVI/KGVI	HRV	734	200	1468	400				
VLEP	ITA	734	200	1468	400				
MV	SVN	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
edicted no-effe	ect concentra	ation - PNE	C						
Normal value i	n fresh water						0,24	mg/l	
Normal value i	n marine wate	er					0,024	mg/l	
Normal value f	or fresh water	r sediment					1,15	mg/kg	
Normal value f	or marine wat	ter sediment					0,115	mg/kg	
Normal value of	of STP microo	rganisms					650	mg/l	
Normal value f	or the terrestr	ial compartr	nent				0,148	mg/kg/d	
ealth - Derived	no-effect lev	el - DNEL /	DMEL						
Effects on consumers					Effects on w		orkers		
Route of expos	sure Acu	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	temic	local	systemic	local	systemic	local	systemic
Oral		VN	D	VND	4,5 mg/kg/d				
Inhalation	734 mg/		1 /m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin	VŇE			VND	37 mg/kg/d	Ü	VND	VND	63 mg/kg/d

_egend:

(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.

TOLUENE

TOLUENE: Monitoring procedures http://limitvalue.ifa.dguv.de/

ISOBUTYL ACETATE

ISOBUTYL ACETATE: Monitoring procedures http://limitvalue.ifa.dguv.de/

ETHYL ACETATE

ACETATO ETILE: Monitoring procedure shttp://limitvalue.ifa.dguv.de/

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 Regulation 2016/425 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, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of



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Information

SECTION 8. Exposure controls/personal protection/>

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

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

Properties Value Appearance liquid Colour colourless characteristic Odour Odour threshold Not available Not available Melting point / freezing point -70 °C °C Initial boiling point 35 Boiling range 55-175 °C Flash point °C 23 **Evaporation Rate** Not available Flammability of solids and gases Not available Not available Lower inflammability limit Not available Upper inflammability limit Lower explosive limit Not available Upper explosive limit Not available Vapour pressure 32,13 Not available Vapour density Relative density 0,87 Not available Solubility Partition coefficient: n-octanol/water Not available Auto-ignition temperature 238 °C Not available Decomposition temperature Viscosity Not available Explosive properties Not available Oxidising properties Not available

9.2. Other information

 VOC (Directive 2010/75/EC) :
 100,00 % - 873,60 g/litre
 g/litre

 VOC (volatile carbon) :
 75,07 % - 655,84 g/litre
 g/litre

 Solubility
 miscible

Vapour density miscing solutions with the second se

SECTION 10. Stability and reactivity

10.1. Reactivity

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

TOLUENE

Avoid exposure to: light.

ISOBUTYL ACETATE

Decomposes under the effect of heat. Attacks various types of plastic materials.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

10.2. Chemical stability

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

ΕN



CHIMEN SRL

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

TOLUENE

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

ISOBUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react violently with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

ISOBUTYL ACETATE

Avoid exposure to: sources of heat,naked flames.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

10.5. Incompatible materials

ISOBUTYL ACETATE

Incompatible with: strong oxidants, nitrates, strong acids, strong bases.

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

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

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.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

TOLUENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

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

TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:

LD50 (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

Not classified (no significant component)



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SECTION 11. Toxicological information .../>>

TOLUENE

 LD50 (Oral)
 5000 mg/kg Rat 24h

 LD50 (Dermal)
 12267 mg/kg Rabbit

 LC50 (Inhalation)
 25,7 mg/l/4h mouse

ETHYL ACETATE

 LD50 (Oral)
 5620 mg/kg bw ratto

 LD50 (Dermal)
 > 20000 mg/kg bw rabbit

 LC50 (Inhalation)
 > 6000 ppm 6 h - ratto

ISOBUTYL ACETATE

 LD50 (Oral)
 13413 mg/kg bw ratto

 LD50 (Dermal)
 > 17400 mg/kg bw coniglio

 LC50 (Inhalation)
 > 30 mg/l/6h ratto

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The ÚS Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Toxic for aspiration

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

TOLUENE

LC50 - for Fish 5,5 mg/l/96h EC50 - for Crustacea 3,78 mg/l/48h

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SECTION 12. Ecological information .../>>

ETHYL ACETATE

LC50 - for Fish 230 mg/l/96h pimephales promelas

EC50 - for Crustacea 165 mg/l/48h daphnia

ISOBUTYL ACETATE

LC50 - for Fish 17 mg/l/96h oryzias latipes EC50 - for Crustacea 25 mg/l/48h daphnia magna

EC50 - for Algae / Aquatic Plants 370 mg/l/72h pseudokirchn eriella subcapitata

12.2. Persistence and degradability

TOLUENE

Solubility in water 100-1000 mg/l

Rapidly degradable

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

ISOBUTYL ACETATE

Solubility in water 0,6 g/100 ml 50°C

Rapidly degradable

12.3. Bioaccumulative potential

TOLUENE

Partition coefficient: n-octanol/water 2,73 BCF 90

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 BCF 30

ISOBUTYL ACETATE

Partition coefficient: n-octanol/water 2,3 BCF 15,3

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

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.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 1263

EPY 9.11.3 - SDS 1004.13



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SECTION 14. Transport information .../>>

14.2. UN proper shipping name

ADR / RID: PAINT OF PAINT RELATED MATERIAL IMDG: PAINT OF PAINT RELATED MATERIAL IATA: PAINT OF PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special Provision: 640D

IMDG: EMS: F-E, <u>S-E</u> Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 60 L Packaging instructions: 364

Pass.: Maximum quantity: 5 L Packaging instructions: 353

Special Instructions: A3, A72, A192

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

Contained substance

Point 48 TOLUENE

Reg. no.: 01-2119471310-51

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 authorisation (Annex XIV REACH)

lone

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

None

Substances subject to the Rotterdam Convention:

None

ΕN



CHIMEN SRL

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SECTION 15. Regulatory information .../

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

A chemical safety assessment has been performed for the following contained substances

TOLUENE

ISOBUTYL ACETATE

ETHYL ACETATE

SECTION 16. Other information

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

Flam. Liq. 2 Flammable liquid, category 2
Repr. 2 Reproductive toxicity, category 2
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 Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

H225 Highly flammable liquid and vapour.
 H361d Suspected of damaging the unborn child.
 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.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

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
- 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).



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SECTION 16. Other information .../>>

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- 4. Regulation (EU) 2015/830 of the European Parliament
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- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII 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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:
The following sections were modified:
01 / 02 / 03 / 08 / 09 / 11 / 12.
Changed TLVs in section 8.1 for following countries:

CZE, SVN, DEU, GBR, ESP, HRV, ITA,