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	Safaty data shoot	
	Safety data sheet	
SECTION 1. Identification of the sub	estance/mixture and of the company	/undertaking
1.1. Product identifier Product name	SERIE PLT7	
1.2. Relevant identified uses of the substance or index of the substance or inde	mixture and uses advised against	
1.3. Details of the supplier of the safety data shee Name Full address	t COMEC ITALIA SRL PIAZZALE DEL LAVORO 149	
District and Country	21044 CAVARIA VA ITALIA	
	Tel. 0331 219515	
e-mail address of the competent person	Fax 0331 216161	
responsible for the Safety Data Sheet Product distribution by	<u>info@comec-italia.it</u> EDGARDO BAGGINI	
1.4. Emergency telephone number For urgent inquiries refer to	+39 0331 219516	
SECTION 2. Hazards identification.		
2.1. Classification of the substance or mixture.		
The product is classified as hazardous pursuant to supplements). The product thus requires a safety datas Any additional information concerning the risks for heal	sheet that complies with the provisions of EC Regula	tion 1907/2006 and subsequent amendments.
2.1.1. Regulation 1272/2008 (CLP) and following a	mendments and adjustments.	
Hazard classification and indication: Flam. Liq. 3	H226	
2.1.2. 67/548/EEC and 1999/45/EC Directives and 1 Danger Symbols: Xn	following amendments and adjustments.	
R phrases: 10-20/21		
The full wording of the Risk (R) and hazard (H) phrases	s is given in section 16 of the sheet.	
2.2. Label elements.		
Hazard labelling pursuant to EC Regulation 1272/2008	(CLP) and subsequent amendments and supplement	nts.

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$\mathbf{\vee}$		
Signal words:	Warning	
H226	Flammable liquid and vapour.	
P210	Keep away from heat / sparks / open flames / hot surfaces. No smoking.	
P233 P280	Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection.	
P303+P361+P353 P370+P378	IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. I In case of fire: Use for extinction.	Rinse skin with water / shower.
2.3. Other hazards.		
formation not available		
SECTION 3. Col	nposition/information on ingredients.	
3.1. Substances.		
formation not relevant.		
3.2. Mixtures.		
ontains:		

Identification. BUTYLGLYCOL ACETATE	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
CAS. 112-07-2 EC. 203-933-3	28,5 - 30	Xn R20/21	Acute Tox. 4 H312, Acute Tox. 4 H332
INDEX. 607-038-00-2			
Reg. no. 01-2119475112-47xxxx			
2-METHOXY-1-METHYLETHYL ACETATE			
CAS. 108-65-6 EC. 203-603-9	6 - 7	R10	Flam. Liq. 3 H226
INDEX. 607-195-00-7			
Reg. no. 01-2119475791-29-xxxx			
XYLENE (MIXTURE OF ISOMERS)			
CAS. 1330-20-7	5 - 6	R10, Xn R20/21, Xi R38, Note C	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Note C
EC. 215-535-7			
INDEX. 601-022-00-9			
Reg. no. 01-2119488216-32xxxx			
ETHYLBENZENE			
CAS. 100-41-4 EC. 202-849-4	1 - 1,5	F R11, Xn R20	Flam. Liq. 2 H225, Acute Tox. 4 H332
INDEX. 601-023-00-4			
Reg. no. 01-2119489370-35-xxxx			

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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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless 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

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.

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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. 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 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:

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).
Éire	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
OEL EU	Code of Practice Chemical Agent Regulations 2011. Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.

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BUTYLGLYCOL ACETATE								
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min				
	·	mg/m3	ppm	mg/m3	ppm			
WEL	UK	133	20	332	50	SKIN		
OEL	IRL	133	20	333	50	SKIN		
OEL	EU	133	20	333	50	SKIN		
TLV-ACGIH		131	20			0.1.1		
Predicted no-effect concentration	- PNFC	101	20					
Normal value for the food chain (s Normal value for the terrestrial co Normal value in fresh water Normal value for water, intermitte Normal value in marine water Normal value for fresh water sedi Normal value for marine water se Normal value of STP microorgani	secondary poisoni mpartment nt release ment diment	ng)		0,06 0,06 0,304 0,56 0,0304 2,03 0,203 90		g/kg g/kg mg/l mg/l mg/l mg/l mg/l		
Health - Derived no-effect le	evel - DNEL / D Effects on	MEL			Effects on			
Davida of av	consumers.	A		Oha	workers	A	Oha i i	Ohr
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.	VND	18 mg/kg/d	VND	4,3 mg/kg/d				
Inhalation. Skin.	166 mg/m3	499 mg/m3	VND VND	67 mg/m3 36 mg/kg/d	333 mg/m3 102 mg/kg/d	773 mg/m3 27 mg/kg/d	VND VND	133 mg/m3 102 mg/kg/d
2-METHOXY-1-METHYLETH Threshold Limit Value.	IYL ACETATE							
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
WEL	UK	274	50	548	100			
OEL	IRL	275	50	550	100	SKIN		
OEL	EU	275	50	550	100	SKIN		
Predicted no-effect concentration	- PNEC.							
Normal value for the terrestrial co Normal value in fresh water Normal value for water, intermitte Normal value for marine water Normal value for fresh water sedi Normal value for marine water se Normal value of STP microorgani		0,29 0,635 6,35 0,0635 3,29 0,329 100		mg/kg mg/l mg/l mg/l mg/kg mg/l				
Health - Derived no-effect le	MEL			Effects on				
Route of exposure	Effects on 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 ISO Threshold Limit Value.	,							
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
WEL	UK	220	50	441	100			
OEL	IRL	221	50	442	100	SKIN		
OEL	EU	221	50	442	100	SKIN		

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TLV-ACGIH		434	100	651	150			
Predicted no-effect concentratio	n - PNEC.							
Normal value for the terrestrial c Normal value in fresh water Normal value for fresh water sec Normal value of STP microorgan	liment nisms			2,31 0,327 12,46 6,58		mg/kg mg/l mg/kg mg/l		
Health - Derived no-effect	Effects on consumers.	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	1,6 mg/kg/d				
Inhalation. Skin.	174 mg/m3	174 mg/m3	VND VND	14,8 mg/m3 108 mg/kg/d	289 mg/m3 174 mg/m3	289 mg/m3 VND	77 mg/m3	77 mg/m3

ETHYLBENZENE

Threshold Limit Value.						
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
WEL	UK	441	100	552	125	SKIN
OEL	IRL	442	100	884	200	SKIN
OEL	EU	442	100	884	200	SKIN
TLV-ACGIH		20	100		87	

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.

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 I 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

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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.

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 Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point. Evaporation Rate Flammability of solids and gases Lower inflammability limit. Upper inflammability limit. Upper inflammability limit. Upper explosive limit. Upper explosive limit. Upper explosive limit. Vapour pressure. Vapour density Relative density. Solubility Partition coefficient: n-octanol/water Auto-ignition temperature. Decomposition temperature. Viscosity Explosive properties	liquid various typical of solvent Not available. Not available. > 140 °C. Not available. > 21 °C. Not available. Not available.
Explosive properties Not available.		i tot a randoror
Oxidising properties Not available	Oxidising properties	Not available.

9.2. Other information.

Solid content.

46,60 %

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.

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ETHYLBENZENE: reacts violently with strong oxidising agents and attacks various types of plastics. Can form explosive mixtures with the air.

10.4. Conditions to avoid.

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

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.

ETHYLBENZENE: methane, styrene, hydrogen, ethane.

SECTION 11. Toxicological information.

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

11.1. Information on toxicological effects.

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.

ETHYLBENZENE: like the benzene homologues, may exert an effect on the CNS with depression, narcosis, often preceded by dizziness and accompanied by headache. It is irritating to the skin, conjunctivae and respiratory apparatus.

polyester polyol LD50 (Oral). > 2000 mg/kg Ratto / Rat

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). > 5000 mg/kg Ratto / Rat LD50 (Dermal). > 2000 mg/kg Ratto / Rat LC50 (Inhalation). > 4345 ppm/6h Ratto / Rat

ETHYLBENZENE LD50 (Oral). 3500 mg/kg Rat LD50 (Dermal). 15354 mg/kg Rabbit

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LC50 (Inhalation). 17,2 mg/l/4h Rat

BUTYLGLYCOL ACETATE LD50 (Oral). 2000 mg/Kg Ratto / Rat LD50 (Dermal). 2000 mg/Kg Coniglio / Rabbit

SECTION 12. Ecological information.

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

12.1. Toxicity. polyester polyol LC50 - for Fish. > 100 mg/l/96h Danio rerio EC50 - for Crustacea. > 100 mg/l/48h Daphnia magna XYLENE (MIXTURE OF ISOMERS) LC50 - for Fish. 2,6 mg/l/96h Fish EC50 - for Crustacea. 1 mg/l/48h Daphnia magna 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 ETHYLBENZENE LC50 - for Fish. 4,2 mg/l/96h Oncorhynchus mykiss OECD TG 203 EC50 - for Crustacea. 2,9 mg/l/48h Daphnia magna (database Ecotox) EC50 - for Algae / Aquatic Plants. 4,6 mg/l/72h Pseudokirchneriella subcapitata (IUCLID) BUTYLGLYCOL ACETATE LC50 - for Fish. > 10 mg/l/96h Fish 10-100 mg/kg (48h) EC50 - for Crustacea. > 100 mg/l/48h Daphnia Magna (24h) 12.2. Persistence and degradability. polyester polyol NOT rapidly biodegradable. XYLENE (MIXTURE OF ISOMERS) Rapidly biodegradable. 2-METHOXY-1-METHYLETHYL ACETATE

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Solubility in water. 198000 mg/l Rapidly biodegradable.

ETHYLBENZENE Rapidly biodegradable.

BUTYLGLYCOL ACETATE Rapidly biodegradable. 12.3. Bioaccumulative potential.

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

ETHYLBENZENE Partition coefficient: n-octanol/water. 3,15 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.

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.

Road and	rail transport: ADR/RID Class:	3	UN:	1210
	Packing Group:	III		
	Label:	3		

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	Nr. Kemler:		30		
	Limited Quantity.		5 L		
	Tunnel restriction code.		(D/E)		
	Proper Shipping Name:		PRINTING IN	IK or PRINTING INK RELATED MATE	RIAL
	Special Provision:		640E		
arriage I	by sea (shipping): IMO Class:		3	UN:	1210
~	Packing Group:		111		
	Label:		3		
	EMS:		F-E, S-D		
	Marine Pollutant.		NO		
	Proper Shipping Name:		PRINTING IN	IK or PRINTING INK RELATED MATE	RIAL
ransport	t by air: IATA:		3	UN:	1210
V	Packing Group:		III		
	Label:		3		
	Cargo:				
	Packaging instructions: Pass.:		366	Maximum quantity:	220 L
	Packaging instructions:		355	Maximum quantity:	60 L
	Special Instructions:		A3, A72		
	Proper Shipping Name:		PRINTING IN	IK or PRINTING INK RELATED MATE	RIAL
SECTIO	ON 15. Regulatory	informatio	n.		
5.1. Safe	ty, health and environme	ntal regulatior	ns/legislation specif	ic for the substance or mixture.	
eveso ca	ategory.	6			
strictions	relating to the product or c	ontained substa	ances pursuant to An	nex XVII to EC Regulation 1907/2006	<u>.</u>
oduct. oint.		3 - 40			
bstances	in Candidate List (Art. 59 F				

Substances subject to authorisarion (Annex XIV REACH).

None.

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

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None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Information not available.

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	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Irrit. 2	Skin irritation, category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H315	Causes skin irritation.

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

R10	FLAMMABLE.
R11	HIGHLY FLAMMABLE.
R20	HARMFUL BY INHALATION.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R38	IRRITATING TO SKIN.

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

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- 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.
- 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 8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
- 9. The Merck Index. 10th Edition
- 10. Handling Chemical Safety
- 11. Niosh Registry of Toxic Effects of Chemical Substances
- 12. INRS Fiche Toxicologique (toxicological sheet)
- 13. Patty Industrial Hygiene and Toxicology
- 14. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- 15. ECHA website

FOR PROFESSIONAL USE ONLY.

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.