

## SECTION 1: Identification of the substance / mixture and company identification

### 1.1 Product identifier

Trade name: **OSCCAR Hardener H910**

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

Identified uses: professional use.

**Application of the substance / the mixture** Hardening agent/ Curing agent

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

Luxon Trade LTD,  
14 Chase grove  
Birmingham, B24 0HU  
United Kingdom  
Tel: +44 1213 680433  
Fax: +44 1213 680642  
info@osccar-paint.com

Further information obtainable from: info@osccar-paint.com

1.4 Emergency telephone number: 44 1213 680 433

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

Classification 67/548/EWG

R10

R43

R66

R67

Classification 1272/2008

Flam. Liq. 3; H226

Skin Sens. 1; H317

STOT SE 3; H336

#### Hazard to human health

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

#### Environmental hazards

The product is not classified as dangerous for the environment.

#### Physical/chemical hazards

Flammable liquid and vapour.

### 2.2 Label elements:

#### Risk symbols and warning signs:



Signal word: **Warning**

#### Hazard statements:

**H226** – Flammable liquid and vapour.

**H317** – May cause an allergic skin reaction.

**H336** – May cause drowsiness or dizziness.

**EUH066** – Repeated exposure may cause skin dryness or cracking.

**EUH208** – Contains 1,6- Hexamethylene diisocyanate. May produce an allergic reaction.

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**Precautionary statements:****P210** – Keep away from heat / sparks / open flames / hot surfaces – No smoking.**P280** – Wear protective gloves / protective clothing / eye protection / face protection.**P302 + P352** – IF ON SKIN: Wash with soap and water.**P304 + P340** – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.**P333 + P313** – If skin irritation or a rash occurs: Get medical advice / attention.**Contains:** n-butyl acetate (CAS: 123-86-4), 1,6- Hexamethylene diisocyanate homopolymer (CAS: 28182-81-2)**2.3 Other hazards:**

No other hazards.

No information on the fulfilment of the criteria for PBT or vPvB in accordance with Annex XIII of the REACH Regulation. Appropriate studies have not been conducted.



<b>SECTION 3: Composition / information on ingredients</b>
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**3.1 Substances:**

Not applicable.

**3.2 Mixtures:**

Hazardous ingredients:





Product identification	Content %	Classification 67/548/EWG	CLP classification	
			Hazard class and category codes	Phrases codes indicating type of hazard
n-butyl acetate CAS: 123-86-4 WE: 204-658-1 Index no: 607-025-00-1 <u>REACH no:</u> 01-2119485493-29-XXXX	55 - 60	R10, R66, R67	Flam. Liq. 3 STOT SE 3	H226 H336
1,6- Hexamethylene diisocyanate homopolymer CAS: 28182-81-2 WE: 500-060-2 Index no: - <u>REACH no:</u> 01-2119485796-17-XXXX	26 - 31	R43	Skin Sens. 1	H317
1-Methoxy-2-propanol acetate CAS: 108-65-6 WE: 203-603-9 Index no: 607-195-00-7 <u>REACH no:</u> 01-2119475791-29-XXXX	4 - 7	R10	Flam. Liq. 3	H226
Dimethylbenzene – mixture of isomers CAS: 1330-20-7 WE: 215-535-7 Index no: 601-022-00-9 <u>REACH no:</u> 01-2119488216-32-XXXX	3 - 5	R10  Xn: R20/21  Xi: R38	Flam. Liq. 3 Acute Tox. 4 Skin Irrit. 2	H226 H332 H312 H315

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Ethylbenzene CAS: 100-41-4 WE: 202-849-4 Index no: 601-023-00-4 <u>REACH no:</u> substance is subject to the transitional period	<1,5	 F: R11  Xn: R20	Flam. Liq. 2 Acute Tox. 4	H225 H332
1,6- Hexamethylene diisocyanate CAS: 822-06-0 WE: 212-485-8 Index no: 615-011-00-1 <u>REACH no:</u> 01-2119457571-37-XXXX	<0,3	 T: R23  Xi: R36/37/38 R42/43	Acute Tox. 3 Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 Skin Sens. 1 Resp. Sens. 1	H331 H315 H335 H319 H317 H334

Full text of the R and H phrases provided in section 16.

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

###### IF ON SKIN:

Wash contaminated skin with soap and water, rinse with water. If skin irritation or a rash occurs: contact a doctor.

###### IF IN EYES:

Rinse with plenty of water for about 15 minutes, holding the eyelids wide open. Avoid strong stream of water - risk of cornea damage, contact a doctor.

###### IF INHALED:

In case of dizziness or nausea remove victim to fresh air, call a doctor if there is no rapid improvement.

###### IF SWALLOWED:

Do NOT induce vomiting. Get immediate medical advice / attention. Do not give anything by mouth to an unconscious person.

##### 4.2 The most important symptoms and effects, both acute and delayed:

Contact with skin: burning, itching, redness, allergic reactions, dryness, cracking of the skin after prolonged, direct exposure.

Contact with eyes: possible slight irritation

Respiratory system: irritation of nasal mucosa, throat and further parts of respiratory system, may depress central nervous system and adversely affect the internal organs – liver, kidney. Symptoms include headache, dizziness, drowsiness, weakness, in extreme cases loss of consciousness.

Gastrointestinal tract: chemical irritation of oral cavity, throat and further parts of gastrointestinal tract. After absorption may experience symptoms of food poisoning, abdominal pain, dizziness, nausea and vomiting. Ingestion of large amounts may cause liver and kidney damage.

##### 4.3 Indications of any immediate medical attention and special treatment needed:

The decision on how to proceed take the doctor after examination of injured.

#### SECTION 5: Fire fighting measures

##### 5.1 Extinguishing media:

**Appropriate extinguishing media:** alcohol-resistant foam or dry powder (A,B,C), carbon dioxide (CO<sub>2</sub> type extinguisher), sand or soil, water fog. Use suitable fire extinguishing methods depending on the conditions.

**Inappropriate extinguishing media:** Strong stream of water.

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

During a fire, high temperatures can cause release of toxic decomposition products which contain inter alia: carbon oxides, nitrogen oxides. Vapours are able to form explosive mixtures with air. Heavier than air they accumulate in depressions or in lower parts of the room – can cause the phenomenon of flashback.

##### 5.3 Advice for firefighters:

Cool containers situated in zone of fire by spraying water, if possible, remove from the danger zone. In case of fire in a closed room wear protective clothing and self-contained breathing apparatus. Do not allow to get through the extinguishing water to surface water, groundwater and sewage system.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

*For persons not being the members of aid giving staff:* inform the appropriate service. Remove from the danger zone people not involved in the liquidation of accident. Remove all possible sources of ignition.

*For persons giving aid:* Ensure proper ventilation, use protective gloves, protective shoes and protective clothing. In the case of splashing of the product use protective glasses or protective mask. Do not breathe vapours. Use personal respiratory system protection.

**6.2 Environmental precautions:**

Prevent from spreading and leakage into sewage system and water reservoir. In case of inability inform the local authorities to provide protection.

**6.3 Methods and materials for containment and cleaning up:**

Prevent from spreading and remove by gathering on absorbent material (sand, sawdust, diatomaceous soil, universal absorbent). Contaminated material put in properly labelled containers for disposal in accordance with applicable regulations.

**6.4 Reference to other sections**

Disposal considerations – see section 13 of the Safety Data Sheet.

Personal protection measures – see section 8 of the Safety Data Sheet.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling:**

Use only in well ventilated area. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid spilling. Avoid breathing vapours. Do not allow to exceed the NDS value in the workplace for the product components. Avoid sources of ignition, heat, hot surfaces and open flames. Apply measures against electrostatic charges – appropriate neutralization and protective earthing during e.g. transferring contents of the containers. It is recommended to wear anti-static clothing and footwear during handling the product. Floor of the room where product is stored or used should be made of electrically conductive materials. Make sure if the electric lighting and wiring are working properly and do not constitute a potential source of ignition. Do not use cutting tools that cause sparks. Avoid inhalation of vapours / aerosols. Work in accordance with the principles of health and safety: do not eat and drink, do not smoke in the workplace, wash hands after use, remove contaminated clothing and protective equipment before entering eating areas.

**7.2 Conditions for safe storage, including any incompatibilities:**

Store in a cool (storage temperature 5°C - 30°C), dry, well-ventilated room. Store in properly labelled and tightly closed original container. Avoid direct sunlight and sources of heat, hot surfaces and open flames. If repackaging is necessary, make sure that the new packaging is suitable for the type of product. After opening close tightly containers and set upright to prevent leakage of the product. Do not store near oxidizing agents, strongly alkaline, strongly acidic products and combustible materials.

**7.3 Special end use(s):** universal hardener for acrylic and polyurethane paints of all kinds.

**SECTION 8: Exposure control/personal protection**

**8.1 Control parameters:**

Exposure standards for occupational hazards accordance with the Regulation of the Minister of Labour and Social Policy on the maximum permissible concentrations and intensities of harmful factors in the work environment dated 29 November 2002 (Journal of Laws No. 217, item. 1833).

Components, for which exposure standards are in force.

Name / type of component	NDS	NDSch	NDSP
	mg/m <sup>3</sup>		
Ethylbenzene	200	400	-
Dimethylbenzene (xylene) – mixture of isomers	100	-	-

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1,6- Hexamethylene diisocyanate	0,04	0,08	-
n-butyl acetate	200	950	-
1-Methoxy-2-propanol acetate	260	520	-

**n-butyl acetate:**

DNEL for workers, prolonged exposure through the skin: 7mg/kg mc/day

DNEL for workers, prolonged exposure through inhalation: 48mg/m<sup>3</sup>

DNEL for consumer, prolonged exposure through the skin: 3,4mg/kg mc/day

DNEL for consumer, prolonged exposure through inhalation: 12mg/m<sup>3</sup>

DNEL for consumer, prolonged exposure if swallowed: 3,4mg/kg mc/day

PNEC freshwater: 0,18mg/l

PNEC sea water: 0,018mg/l

PNEC periodic release: 0,36mg/l

PNEC sewage treatment plant: 35,6mg/l

PNEC freshwater sediment: 0,981mg/kg

PNEC sea waters sediment: 0,0981mg/l

PNEC soil: 0,0903mg/kg

**1-Methoxy-2-propanol acetate**

DNEL for workers, prolonged exposure through the skin (systemic effects): 153,5mg/kg mc

DNEL for workers, prolonged exposure through inhalation (systemic effects): 275mg/m<sup>3</sup>

DNEL for consumer, prolonged exposure through the skin (systemic effects): 54,8mg/kg mc

DNEL for consumer, prolonged exposure if swallowed (systemic effects): 1,67mg/kg mc/day

PNEC freshwater: 0,635mg/l

PNEC freshwater sediment: 3,29mg/kg

PNEC sea waters sediment: 0,329mg/l

PNEC soil: 0,29mg/kg

PNEC sewage treatment plant: 100mg/l

**Maximum concentrations of dangerous component (xylene) in biological material:**DSB –1,4 g/dm<sup>3</sup> calculated on average density of urine - 1,024

Determined substance – methyl hippuric acid

Biological material – urine

*Notes:* sample collected once, at the end of daily exposure on any day.**Maximum concentrations of dangerous component (ethylbenzene) in biological material:**

DSB –0,3 g/g creatinine

Determined substance – mandelic acid

Biological material – urine

*Notes:* sample collected once, at the end of daily exposure on any day.**8.2 Exposure control:****Appropriate technical control measures:** use of general ventilation of the room is recommended.**Individual protection measures, such as personal protective equipment:****Eye or face protection:**

Wear protective glasses or protective mask (in accordance with EN 166).

**Skin protection:****Hand protection:**

Use protective gloves resistant to chemicals, made of viton, 0,7 mm thick, penetration time &gt; 480 min or nitrile rubber, 0,4 mm thick, penetration time &gt; 30 min in accordance to EN-PN 374:2005.

**The material from which the gloves are made:**

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Choice of suitable gloves depends not only on the material, but also on the brand and quality that depend on manufacturer. Resistance of the material from which gloves are made can be determined after testing. The exact time of the destruction of the protective gloves must be determined by the manufacturer.

**Other:**

Wear protective clothing working – wash regularly.

**Respiratory system protection:**

Avoid breathing vapours. In case of exceeding the NDS value in the workplace use personal respiratory system protection – mask or half mask with filter and universal or A type vapour absorber (class 1,2 or 3) in accordance with EN 141.

**Thermal hazards:**

Not applicable.

**Control of environmental exposure**

Do not allow to spread in the environment and leakage to sewage system and watercourses.

<b>SECTION 9: Physical and chemical properties</b>
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**9.1 Information on basic physical and chemical properties**

Physical state	liquid
Colour	colourless
Odour	solvent - ester
Odour threshold	0,9 - 9 mg/m <sup>3</sup> (xylene)
pH	not applicable
Melting point (range)	not applicable
Boiling point (range)	126 - 140°C
Flash point	32°C
Ignition temperature	not specified
Evaporation rate	not specified
Flammability (solid, gas)	not applicable
Bottom explosion limit	1 vol% (xylene)
Top explosive limit	8 vol% (xylene)
Vapour pressure (20°C)	9 hPa (xylene)
Relative vapour density	not specified
Solubility in water	very weak
N-octanol / water division ratio	>3
Autoignition point	>200 °C
Breakdown point	not specified
Viscosity ISO 2431 (4 mm)	not specified
Explosive properties	not applicable

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Oxidizing properties	not applicable
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**9.2 Other information:**

No additional test results.

**SECTION 10: Stability and reactivity****10.1 Reactivity:**

Unknown.

**10.2 Chemical stability:**

Product remains stable under normal use, storage and transport conditions.

**10.3 Possibility of hazardous reactions:**

None.

**10.4 Conditions to be avoided:**

Avoid high temperature, direct sunlight, hot surfaces and open flames. Protect from moisture – contact with the water increases the pressure in a closed container.

**10.5 Incompatible materials:**

Strong acids, strong alkalis, strong oxidizing agents. Combustible materials.

**10.6 Hazardous decomposition products:**

As a result of high temperatures toxic gases are generated – carbon oxides, nitrogen oxides.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects:**

a) acute toxicity: does not show

**n-butyl acetate**

LD <sub>50</sub> (rat, male; orally)	10760 mg/kg
LC <sub>50</sub> (rat, male, female; inhalation)	23,4mg/l/h (In vivo, aerosol)
LD <sub>50</sub> (rabbit; skin)	>14000mg/kg

**Xylene:**

Acute oral toxicity LD <sub>50</sub> (rat):	4300 mg/kg
Acute skin toxicity LD <sub>50</sub> :	no data
Acute inhalation toxicity LC <sub>50</sub> (rat):	22100 mg/m <sup>3</sup> /4h

**1,6- Hexamethylene diisocyanate**

LD <sub>50</sub> (rabbit; orally):	593 mg/kg
LC <sub>50</sub> (rat; inhalation):	0,124 mg/l, 4 h

**1-Methoxy-2-propanol acetate:**

LD <sub>50</sub> (rat; orally)	>5000mg/kg
LC <sub>50</sub> (rat; inhalation)	no data
LD <sub>50</sub> (rabbit; skin)	>5000mg/kg

**Ethylbenzene:**

Acute oral toxicity LD <sub>50</sub> (rat):	3500 mg/kg
Acute skin toxicity LD <sub>50</sub> :	no data
Acute inhalation toxicity LC <sub>50</sub> (rat):	17800 mg/m <sup>3</sup> /4h
TCL <sub>0</sub> (human; inhalation)	442 mg/ m <sup>3</sup> (8 h)

**1,6- Hexamethylene diisocyanate homopolymer:**

LC <sub>50</sub> (rat, male; inhalation):	543 mg/m <sup>3</sup> , 4 h
LC <sub>50</sub> (rat, female):	390 mg/m <sup>3</sup> , 4 h

- b) irritating effect: does not show
- c) caustic effect: does not show
- d) allergenic effects: May cause an allergic skin reaction
- e) toxicity for repeated exposure: May cause drowsiness or dizziness
- f) cancerogenity: does not show
- g) mutagenity: does not show
- h) harmful effect on reproduction: does not show

**Information on likely routes of exposure:**

Contact with skin: burning, itching, redness, allergic reactions, dryness, cracking of the skin after prolonged, direct exposure.

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**Contact with eyes:** possible slight irritation

**Respiratory system:** irritation of nasal mucosa, throat and further parts of respiratory system, may depress central nervous system and adversely affect the internal organs – liver, kidney. Symptoms include headache, dizziness, drowsiness, weakness, in extreme cases loss of consciousness.

**Gastrointestinal tract:** chemical irritation of oral cavity, throat and further parts of gastrointestinal tract. After absorption may experience symptoms of food poisoning, abdominal pain, dizziness, nausea and vomiting. Ingestion of large amounts may cause liver and kidney damage.

**Delayed and immediate and chronic effects from short-and long-term exposure:**

No data.

**The effects of the interaction:**

No data.

**SECTION 12: Ecological information**

Detailed studies of the environmental effects of the mixture were not carried out. Harmful to aquatic life with long lasting effects. Do not allow to leakage to ground water sewage system and watercourses.

**12.1 Toxicity:**

**n-butyl acetate:**

LC <sub>50</sub> – fish ( <i>Pimephales promelas</i> )	18 mg/l, 96h
EC <sub>50</sub> – invertebrates ( <i>Daphnia</i> sp.)	44 mg/l, 48h
NOEC – algae ( <i>Desmodesmus subspicatus</i> )	200 mg/l, 72h
ErC <sub>50</sub> – algae ( <i>Desmodesmus subspicatus</i> )	648 mg/l, 72h
IC <sub>50</sub> – activated sludge ( <i>Tetrahymena pyriformis</i> )	356 mg/l, 40h

**1,6- Hexamethylene diisocyanate**

LC <sub>0</sub> – fish ( <i>Brachydanio rerio</i> )	82,8 mg/l (96h)
EC <sub>0</sub> – invertebrates ( <i>Daphnia</i> )	89,1 mg/l (48h)
EC <sub>50</sub> – algae ( <i>Scenedesmus quadricauda</i> )	77,4 mg/l (96h)
EC <sub>50</sub> – bacteria ( <i>effect on activated sludge</i> )	842 mg/l

**Ethylbenzene:**

Acute toxicity to fish ( <i>Pimephales promelas</i> ) LC <sub>50</sub> :	49 mg/dm <sup>3</sup> /96h
Acute toxicity to aquatic invertebrates ( <i>Daphnia magna</i> ) EC <sub>50</sub> :	184 mg/dm <sup>3</sup> /24h

**Xylene:**

Acute toxicity to fish ( <i>Pimephales promelas</i> ) LC <sub>50</sub> :	16,1 mg/dm <sup>3</sup> /96h
Acute toxicity to aquatic invertebrates ( <i>Daphnia magna</i> ) EC <sub>50</sub> :	3,82 mg/dm <sup>3</sup> /48h

**12.2 Persistence and degradability:**

**n-butyl acetate:** Slowly hydrolyzed in water. Hydrolysis half-time: 78 days at pH: 8 and 2 years at pH: 7 (in 25°C). Substance is easily biodegradable: 80% within 5 days (83% within 28 days).

**Xylene:** Substance is easily biodegradable in water. 50-70% after 5 days (oxygen, communal sewage)

Half-life degradation in groundwater: 20-116 days,

Half-life degradation in soil: 2-7 days

Half-life degradation in an atmosphere: 8-14 days

**1-Methoxy-2-propanol acetate:** Substance is easily biodegradable; oxidized in the air as a result of photochemical reactions.

**12.3 Bioaccumulative potential:**

**n-butyl acetate:** log Ko/w: 2,3 (BCF expected: 15,3) – substance is not expected to bio accumulate.

**Xylene:** BCF <100

**1-Methoxy-2-propanol acetate:** log Po/w: 0,56

**12.4 Mobility in soil:**

**n-butyl acetate:** Ko/c: 1,27 (estimated value)

**1-Methoxy-2-propanol acetate:** Ko/c: 1,7 (estimated value)

**Hydrocarbons, C9, aromatics:** easily volatile; evaporates quickly.

**12.5 Results of PBT and vPvB assessment:**

No data.

**12.6 Other adverse effects:**



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No data.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods:**

Disposable containers and waste must be disposed by authorized firm. Disposal procedure should be agreed with area competent department of environmental protection. Rest of product store in original containers. Dispose in accordance with applicable regulations. Empty containers must be disposed in accordance with applicable regulations or deliver to suitable garbage dump.

Regulation of the Minister of Environment of 27 September 2001 on waste catalogue (Journal of Laws No. 112, item 1206).

Directive No. 75/442/EEC on waste, Directive No. 91/689/EEC on hazardous waste, Commission Decision 2000/532/EC No. of 3 May 2000 the list of waste, OJ No. L 226/3 of 6 September 2000, with the amending decisions.

**SECTION 14: Transport information****14.1 UN number (ONZ number):** 1263**14.2 UN proper shipping name:** PAINT OR PAINT RELATED MATERIAL**14.3 Transport hazard class(es):** 3**14.4 Packaging group:** III**14.5 Environmental hazards:** none**14.6 Special precautions for user:** always transport in closed containers that are upright, labelled and secured.**14.7 Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code:** no information.**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation, Restriction of Chemicals (REACH).
2. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
3. Act of 25 February 2011. chemical substances and mixtures (Journal of Laws No. 63, pos. 322).
4. Regulation of the European Parliament and of the Council of 16 December 2008 No. 1272/2008 (CLP).
5. Regulation of the Minister of Health of 20 April 2012 on the labelling of chemical substances and mixtures, and some mixtures. (Journal of Laws of 2012 No. 0 pos. 445).
6. Regulation of the Minister of Health of 10 August 2012 on the criteria and classification of chemical substances and mixtures (OJ 2012 pos. 1018).
7. Regulation of the Minister of Environment of 23 April 2004 on specimen labelling of packaging (Journal of Laws No. 94, pos. 927).
8. Regulation of the Minister of Health of 10 October 2013 amending Regulation on the category of dangerous substances and mixtures, whose packaging is provided with a closure against opening by children and tactile warning of danger (Journal of Laws of 2013 No. 0 pos. 1225).
9. Act of 14 December 2012 on waste (OJ 2013 No. 0 pos. 21).
10. Act of 13 June 2013 on the management of packaging and packaging waste (OJ 2013, pos. 888).
11. Regulation of the Minister of Environment of 27 September 2001 on waste (OJ No. 112, pos. 1206).
12. Directive No. 75/442/EEC on waste, Directive No. 91/689/EEC on hazardous waste, Commission Decision 2000/532/EC No. of 3 May 2000 the list of waste, OJ No. L 226/3 of 6 September 2000, with the amending decisions.
13. Act of 19 August 2011 on the transport of dangerous goods (Journal of Laws No. 227, pos. 1367)
14. Statement of the Government of 23 March 2011 on the entry into force of amendments to Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (Journal of Laws No. 110 pos. 641).

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15. Regulation of the Minister of Labour and Social Policy of 29 November 2002 on the maximum permissible concentrations and intensities of harmful factors in the work environment (Journal of Laws No. 217, pos. 1833).
16. Regulation of the Minister of Health of 30 December 2004 on health and safety at work regulations apply to workplace chemicals (Journal of Laws of 2005 No. 11, pos. 86).
17. Regulation of the Minister of Environment of 9 December 2003 on substances posing a particular threat to the environment (Journal of Laws No. 217, pos. 2141).

**15.2 Chemical safety assessment:**

No chemical safety assessment for the substances, and the mixture.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to the gastro-intestinal tract through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids, Hazard Category 2
- Flam. Liq. 3: Flammable liquids, Hazard Category 3
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Skin Sens. 1: Sensitisation - Skin. Hazard Category 1
- Skin Sens. 1A: Sensitisation - Skin. Hazard Category 1A
- STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
- STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
- Asp. Tox. 1: Aspiration hazard, Hazard Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

**Sources** European Chemicals Agency, <http://echa.europa.eu/>

**\* Data compared to the previous version altered.**