

## SAFETY DATA SHEET

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

#### 1.1. Product identifier

Trade name or designation of the mixture	2W LIQUID NUCLEAR GRADE
Registration number	-
Synonyms	None.
Product code	805-0020
Issue date	15-November-2012
Version number	01
Revision date	15-November-2012
Supersedes date	13-January-2012

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

Identified uses	Industrial Leak Sealant
Uses advised against	None known.

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

##### Supplier

Company name	Team Industrial Services, Inc.
Address	Postbus 37 4380 AA Vlissingen 3237 The Netherlands
Telephone	+31 (0) 118 48 58 00 Fax +31 (0) 118 48 58 86
e-mail	Not available.
Contact person	Not available.

1.4. Emergency telephone number +1 703-527-3887

### SECTION 2: Hazards identification

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

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

##### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** R10, Muta. Cat. 3;R68, T;R24/25, C;R34, Xn;R20

The full text for all R-phrases is displayed in section 16.

##### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Flammable liquids	Category 3	H226 - Flammable liquid and vapour.
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##### Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
Germ cell mutagenicity	Category 2	H341 - Suspected of causing genetic defects.

##### Hazard summary

<b>Physical hazards</b>	Flammable.
<b>Health hazards</b>	Harmful by inhalation. Toxic in contact with skin and if swallowed. Causes burns. Possible risk of irreversible effects. Occupational exposure to the substance or mixture may cause adverse health effects.
<b>Environmental hazards</b>	Not classified for hazards to the environment.
<b>Specific hazards</b>	May cause blood damage. May cause lung oedema. May cause damage to the liver and kidneys. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness).

**Main symptoms** Unconsciousness. Coughing. Shortness of breath. Discomfort in the chest. Irritation of nose and throat. Symptoms include itching, burning, redness and tearing. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure.

## 2.2. Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Phenol, m-Cresol, p-Cresol

#### Hazard pictograms



**Signal word** Danger

**Hazard statements**  
 H226 - Flammable liquid and vapour.  
 H302 - Harmful if swallowed.  
 H314 - Causes severe skin burns and eye damage.  
 H341 - Suspected of causing genetic defects.

### Precautionary statements

**Prevention**  
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P260 - Do not breathe fume/gas/mist/vapours/spray.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response**  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a POISON CENTRE or doctor/physician.

**Storage** P403 + P235 - Store in a well-ventilated place. Keep cool.

**Disposal** P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** Contains Hexamethylenetetramine. May produce an allergic reaction.

**2.3. Other hazards** Not a PBT or vPvB substance or mixture.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Phenol, polymer with formaldehyde	50 - 70	9003-35-4 500-005-2	-	-	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
m-Cresol	5 - < 10	108-39-4 203-577-9	-	604-004-00-9	#
<b>Classification:</b>	<b>DSD:</b> T;R24/25, C;R34				
	<b>CLP:</b> Acute Tox. 3;H301, Acute Tox. 3;H311, Skin Corr. 1B;H314				
Phenol	3 - < 5	108-95-2 203-632-7	-	604-001-00-2	#
<b>Classification:</b>	<b>DSD:</b> Muta. Cat. 3;R68, T;R23/24/25, C;R34, Xn;R48/20/21/22				
	<b>CLP:</b> Acute Tox. 3;H301, Acute Tox. 3;H311, Skin Corr. 1B;H314, Acute Tox. 3;H331, Muta. 2;H341, STOT RE 2;H373				
Water	1 - < 3	7732-18-5 231-791-2	-	-	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
p-Cresol	1 - < 3	106-44-5 203-398-6	-	604-004-00-9	#
<b>Classification:</b>	<b>DSD:</b> T;R24/25, C;R34				
	<b>CLP:</b> Acute Tox. 3;H301, Acute Tox. 3;H311, Skin Corr. 1B;H314				
Hexamethylenetetramine	< 1	100-97-0 202-905-8	-	612-101-00-2	
<b>Classification:</b>	<b>DSD:</b> F;R11, R43				
	<b>CLP:</b> Flam. Sol. 2;H228, Skin Sens. 1;H317				
Ethylphenol	< 0,3	25429-37-2 -	-	-	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
Xylenol	< 0,2	1300-71-6 215-089-3	-	604-006-00-X	
<b>Classification:</b>	<b>DSD:</b> T;R24/25, C;R34, N;R51/53				
	<b>CLP:</b> Acute Tox. 3;H301, Acute Tox. 3;H311, Skin Corr. 1B;H314, Eye Dam. 1;H318, Aquatic Chronic 2;H411				
Formaldehyde	< 0,1	50-00-0 200-001-8	-	605-001-00-5	
<b>Classification:</b>	<b>DSD:</b> Carc. Cat. 3;R40, T;R23/24/25, C;R34, R43				
	<b>CLP:</b> Acute Tox. 3;H301, Acute Tox. 3;H311, Skin Corr. 1B;H314, Skin Sens. 1;H317, Acute Tox. 3;H331, STOT SE 3;H335, Carc. 2;H351				
o-Cresol	< 0,1	95-48-7 202-423-8	-	604-004-00-9	#
<b>Classification:</b>	<b>DSD:</b> T;R24/25, C;R34				
	<b>CLP:</b> Acute Tox. 3;H301, Acute Tox. 3;H311, Skin Corr. 1B;H314				

#: This substance has workplace exposure limit(s).

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

**Composition comments** The full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by weight.

## SECTION 4: First aid measures

**General information** Chemical burns must be treated by a physician.

### 4.1. Description of first aid measures

**Inhalation** If breathing stops, provide artificial respiration. Get medical attention immediately.

**Skin contact** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.

**Eye contact** Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance. If medical assistance is not immediately available, flush an additional 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion** Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Only induce vomiting at the instruction of medical personnel. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention immediately.

**4.2. Most important symptoms and effects, both acute and delayed** Itching, redness, swelling, burning or blistering of skin. May cause permanent damage if eye is not immediately irrigated.

**4.3. Indication of any immediate medical attention and special treatment needed** Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	The product is flammable.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	No restrictions known.
<b>5.2. Special hazards arising from the substance or mixture</b>	Solvent vapours may form explosive mixtures with air. During fire, gases hazardous to health may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
<b>Special fire fighting procedures</b>	Ventilate closed spaces before entering them. Containers should be cooled with water to prevent vapor pressure build up. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply. Evacuate area and fight fire from a safe distance. Stop leak if you can do so without risk. Move containers from fire area if you can do it without risk.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Ventilate closed spaces before entering them. Avoid inhalation of vapours and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8.
<b>For emergency responders</b>	Use personal protection as recommended in section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Environmental manager must be informed of all major spillages.
<b>6.3. Methods and material for containment and cleaning up</b>	Eliminate all ignition sources. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly. Sweep up or vacuum up spillage and collect in suitable container for disposal. Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in Section 13.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8. For waste disposal, see section 13.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid any exposure. Avoid contact during pregnancy/while nursing. Use only with adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures. Vapours are heavier than air and may travel along the floor and in the bottom of containers.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Follow rules for flammable liquids. Keep away from heat, spark, open flames and other sources of ignition. Keep away from sources of ignition - No smoking. Store in a cool, dry, well-ventilated place.
<b>7.3. Specific end use(s)</b>	Industrial Leak Sealant

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value
Ethanol (CAS 64-17-5)	Ceiling	3800 mg/m <sup>3</sup>
		2000 ppm
	MAK	1900 mg/m <sup>3</sup>
Formaldehyde (CAS 50-00-0)	Ceiling	1000 ppm
		0,6 mg/m <sup>3</sup>
	MAK	0,5 ppm
m-Cresol (CAS 108-39-4)		0,6 mg/m <sup>3</sup>
	Ceiling	0,5 ppm
	MAK	44 mg/m <sup>3</sup>
		10 ppm
	MAK	22 mg/m <sup>3</sup>

**Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

Components	Type	Value
p-Cresol (CAS 106-44-5)	Ceiling	5 ppm 44 mg/m <sup>3</sup>
	MAK	10 ppm 22 mg/m <sup>3</sup>
		5 ppm
Phenol (CAS 108-95-2)	MAK	8 mg/m <sup>3</sup>
		2 ppm
	STEL	6 mg/m <sup>3</sup> 4 ppm

**Belgium. Exposure Limit Values.**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1907 mg/m <sup>3</sup> 1000 ppm
Formaldehyde (CAS 50-00-0)	STEL	0,38 mg/m <sup>3</sup> 0,3 ppm
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup> 5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	STEL	16 mg/m <sup>3</sup> 4 ppm
		8 mg/m <sup>3</sup>
	TWA	2 ppm

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1000 mg/m <sup>3</sup>
Formaldehyde (CAS 50-00-0)	STEL	2 mg/m <sup>3</sup>
	TWA	1 mg/m <sup>3</sup>
Hexamethylenetetramine (CAS 100-97-0)	TWA	2 mg/m <sup>3</sup>
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup>
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup>
Phenol (CAS 108-95-2)	TWA	7,8 mg/m <sup>3</sup>

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
Formaldehyde (CAS 50-00-0)	TWA	3 mg/m <sup>3</sup>
Phenol (CAS 108-95-2)		2 ppm
		19 mg/m <sup>3</sup>
		5 ppm

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Ethanol (CAS 64-17-5)	Ceiling	3000 mg/m <sup>3</sup>	
	TWA	1000 mg/m <sup>3</sup>	
Formaldehyde (CAS 50-00-0)	Ceiling	1 mg/m <sup>3</sup>	
	TWA	0,5 mg/m <sup>3</sup>	
m-Cresol (CAS 108-39-4)	Ceiling	40 mg/m <sup>3</sup>	
	TWA	20 mg/m <sup>3</sup>	
p-Cresol (CAS 106-44-5)	Ceiling	40 mg/m <sup>3</sup>	
	TWA	20 mg/m <sup>3</sup>	
Phenol (CAS 108-95-2)	Ceiling	15 mg/m <sup>3</sup>	
	TWA	7,5 mg/m <sup>3</sup>	

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Phenol, polymer with formaldehyde (CAS 9003-35-4)	TWA	5 mg/m <sup>3</sup>	Dust.

**Denmark. Exposure Limit Values**

Components	Type	Value
Ethanol (CAS 64-17-5)	TLV	1900 mg/m <sup>3</sup> 1000 ppm
Formaldehyde (CAS 50-00-0)	Ceiling	0,4 mg/m <sup>3</sup> 0,3 ppm
m-Cresol (CAS 108-39-4)	TLV	22 mg/m <sup>3</sup> 5 ppm
p-Cresol (CAS 106-44-5)	TLV	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	TLV	4 mg/m <sup>3</sup> 1 ppm

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1900 mg/m <sup>3</sup> 1000 ppm
	TWA	1000 mg/m <sup>3</sup> 500 ppm
Formaldehyde (CAS 50-00-0)	TWA	0,6 mg/m <sup>3</sup> 0,5 ppm
Hexamethylenetetramine (CAS 100-97-0)	STEL	5 mg/m <sup>3</sup>
	TWA	3 mg/m <sup>3</sup>
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup> 5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	STEL	16 mg/m <sup>3</sup> 4 ppm
	TWA	8 mg/m <sup>3</sup> 2 ppm

**Finland. Workplace Exposure Limits**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	2500 mg/m <sup>3</sup> 1300 ppm
	TWA	1900 mg/m <sup>3</sup> 1000 ppm
Formaldehyde (CAS 50-00-0)	Ceiling	1,2 mg/m <sup>3</sup>
	TWA	1 ppm 0,37 mg/m <sup>3</sup>
m-Cresol (CAS 108-39-4)	STEL	0,3 ppm 45 mg/m <sup>3</sup>
	TWA	10 ppm 22 mg/m <sup>3</sup>
p-Cresol (CAS 106-44-5)	STEL	5 ppm 45 mg/m <sup>3</sup>
	TWA	10 ppm 22 mg/m <sup>3</sup>
Phenol (CAS 108-95-2)	STEL	5 ppm 20 mg/m <sup>3</sup>
	TWA	5 ppm 8 mg/m <sup>3</sup>

**Finland. Workplace Exposure Limits**

Components	Type	Value
		2 ppm

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Ethanol (CAS 64-17-5)	VLE	9500 mg/m <sup>3</sup>
	VME	5000 ppm 1900 mg/m <sup>3</sup>
Formaldehyde (CAS 50-00-0)	VLE	1000 ppm 1 ppm
	VME	0,5 ppm
m-Cresol (CAS 108-39-4)	VME	22 mg/m <sup>3</sup> 5 ppm
	VME	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	VLE	15,6 mg/m <sup>3</sup> 4 ppm
	VME	7,8 mg/m <sup>3</sup> 2 ppm

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	960 mg/m <sup>3</sup> 500 ppm
	TWA	0,37 mg/m <sup>3</sup> 0,3 ppm

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value
Ethanol (CAS 64-17-5)	AGW	960 mg/m <sup>3</sup> 500 ppm
Phenol (CAS 108-95-2)	AGW	8 mg/m <sup>3</sup> 2 ppm

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup> 1000 ppm
	STEL	2,5 mg/m <sup>3</sup> 2 ppm
Formaldehyde (CAS 50-00-0)	TWA	2,5 mg/m <sup>3</sup> 2 ppm
	TWA	22 mg/m <sup>3</sup> 5 ppm
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup> 5 ppm
	TWA	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	STEL	38 mg/m <sup>3</sup> 10 ppm
	TWA	19 mg/m <sup>3</sup> 5 ppm

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	7600 mg/m <sup>3</sup>
	TWA	1900 mg/m <sup>3</sup>
Formaldehyde (CAS 50-00-0)	STEL	0,6 mg/m <sup>3</sup>
	TWA	0,6 mg/m <sup>3</sup>
m-Cresol (CAS 108-39-4)	STEL	22 mg/m <sup>3</sup>

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup>
	STEL	22 mg/m <sup>3</sup>
	TWA	22 mg/m <sup>3</sup>
Phenol (CAS 108-95-2)	STEL	16 mg/m <sup>3</sup>
	TWA	8 mg/m <sup>3</sup>

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup>
		1000 ppm
Formaldehyde (CAS 50-00-0)	STEL	1,2 mg/m <sup>3</sup>
		1 ppm
	TWA	0,4 mg/m <sup>3</sup> 0,3 ppm
Hexamethylenetetramine (CAS 100-97-0)	TWA	3 mg/m <sup>3</sup>
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup>
		5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup>
		5 ppm
Phenol (CAS 108-95-2)	TWA	4 mg/m <sup>3</sup>
		1 ppm

**Ireland. Occupational Exposure Limits**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Formaldehyde (CAS 50-00-0)	STEL	2,5 mg/m <sup>3</sup>
	TWA	2 ppm 2,5 mg/m <sup>3</sup>
m-Cresol (CAS 108-39-4)	TWA	2 ppm 22 mg/m <sup>3</sup>
		5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup>
		5 ppm
Phenol (CAS 108-95-2)	STEL	16 mg/m <sup>3</sup>
		4 ppm
	TWA	8 mg/m <sup>3</sup> 2 ppm

**Italy. Occupational Exposure Limits**

Components	Type	Value	Form
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Formaldehyde (CAS 50-00-0)	Ceiling	0,3 ppm	
m-Cresol (CAS 108-39-4)	TWA	20 mg/m <sup>3</sup>	Inhalable fraction and vapor.
p-Cresol (CAS 106-44-5)	TWA	20 mg/m <sup>3</sup>	Inhalable fraction and vapor.
Phenol (CAS 108-95-2)	TWA	7,8 mg/m <sup>3</sup>	
		2 ppm	

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1000 mg/m <sup>3</sup>
Formaldehyde (CAS 50-00-0)	TWA	0,5 mg/m <sup>3</sup>
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup>
		5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup>
		5 ppm
Phenol (CAS 108-95-2)	STEL	16 mg/m <sup>3</sup>



**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
	TWA	4 ppm 8 mg/m <sup>3</sup> 2 ppm

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value	Form
Ethanol (CAS 64-17-5)	STEL	1900 mg/m <sup>3</sup>	
	TWA	1000 ppm 1000 mg/m <sup>3</sup> 500 ppm	
Formaldehyde (CAS 50-00-0)	Ceiling	1 mg/m <sup>3</sup>	
	TWA	1,2 ppm 0,6 mg/m <sup>3</sup> 0,5 ppm	
Hexamethylenetetramine (CAS 100-97-0)	STEL	5 mg/m <sup>3</sup>	
	TWA	3 mg/m <sup>3</sup>	
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup> 5 ppm	
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup> 5 ppm	
Phenol (CAS 108-95-2)	STEL	16 mg/m <sup>3</sup>	
	TWA	4 ppm 8 mg/m <sup>3</sup> 2 ppm	
Phenol, polymer with formaldehyde (CAS 9003-35-4)	TWA	3 mg/m <sup>3</sup>	Dust.

**Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**

Components	Type	Value
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup> 5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	STEL	16 mg/m <sup>3</sup>
	TWA	4 ppm 8 mg/m <sup>3</sup> 2 ppm

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

Components	Type	Value
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup> 5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	TWA	7,8 mg/m <sup>3</sup> 2 ppm

**Netherlands. OELs (binding)**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1900 mg/m <sup>3</sup>
	TWA	260 mg/m <sup>3</sup>
Formaldehyde (CAS 50-00-0)	STEL	0,5 mg/m <sup>3</sup>
	TWA	0,15 mg/m <sup>3</sup>
Phenol (CAS 108-95-2)	TWA	8 mg/m <sup>3</sup>

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value
Ethanol (CAS 64-17-5)	TLV	950 mg/m <sup>3</sup> 500 ppm
Formaldehyde (CAS 50-00-0)	Ceiling	1,2 mg/m <sup>3</sup>
	TLV	1 ppm 0,6 mg/m <sup>3</sup> 0,5 ppm
Hexamethylenetetramine (CAS 100-97-0)	TLV	3 mg/m <sup>3</sup>
m-Cresol (CAS 108-39-4)	TLV	22 mg/m <sup>3</sup> 5 ppm
p-Cresol (CAS 106-44-5)	TLV	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	STEL	12 mg/m <sup>3</sup> 3 ppm
	TLV	4 mg/m <sup>3</sup> 1 ppm

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup>
Formaldehyde (CAS 50-00-0)	STEL	1 mg/m <sup>3</sup>
	TWA	0,5 mg/m <sup>3</sup>
Hexamethylenetetramine (CAS 100-97-0)	TWA	4 mg/m <sup>3</sup>
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup>
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup>
Phenol (CAS 108-95-2)	STEL	16 mg/m <sup>3</sup>
	TWA	7,8 mg/m <sup>3</sup>

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

Components	Type	Value
Phenol (CAS 108-95-2)	TWA	7,8 mg/m <sup>3</sup> 2 ppm

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1000 ppm
Formaldehyde (CAS 50-00-0)	Ceiling	0,3 ppm
m-Cresol (CAS 108-39-4)	TWA	5 ppm
p-Cresol (CAS 106-44-5)	TWA	5 ppm
Phenol (CAS 108-95-2)	TWA	5 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	9500 mg/m <sup>3</sup> 5000 ppm
	TWA	1900 mg/m <sup>3</sup> 1000 ppm
Formaldehyde (CAS 50-00-0)	STEL	3 mg/m <sup>3</sup>
	TWA	2 ppm 1,2 mg/m <sup>3</sup> 1 ppm
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup> 5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	TWA	7,8 mg/m <sup>3</sup> 2 ppm

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	960 mg/m <sup>3</sup> 500 ppm
Formaldehyde (CAS 50-00-0)	TWA	0,37 mg/m <sup>3</sup> 0,3 ppm
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup> 5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	TWA	8 mg/m <sup>3</sup> 2 ppm

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup> 1000 ppm
Formaldehyde (CAS 50-00-0)	TWA	0,62 mg/m <sup>3</sup> 0,5 ppm
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup> 5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	TWA	8 mg/m <sup>3</sup> 2 ppm

**Spain. Occupational Exposure Limits**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1910 mg/m <sup>3</sup> 1000 ppm
Formaldehyde (CAS 50-00-0)	STEL	0,37 mg/m <sup>3</sup> 0,3 ppm
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup> 5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup> 5 ppm
Phenol (CAS 108-95-2)	STEL	16 mg/m <sup>3</sup> 4 ppm
	TWA	8 mg/m <sup>3</sup> 2 ppm

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1900 mg/m <sup>3</sup> 1000 ppm
	TWA	1000 mg/m <sup>3</sup> 500 ppm
Formaldehyde (CAS 50-00-0)	Ceiling	0,74 mg/m <sup>3</sup> 0,6 ppm
	TWA	0,37 mg/m <sup>3</sup> 0,3 ppm
Hexamethylenetetramine (CAS 100-97-0)	STEL	5 mg/m <sup>3</sup>
	TWA	3 mg/m <sup>3</sup>
m-Cresol (CAS 108-39-4)	STEL	9 mg/m <sup>3</sup> 2 ppm
	TWA	4,5 mg/m <sup>3</sup> 1 ppm
p-Cresol (CAS 106-44-5)	STEL	9 mg/m <sup>3</sup>

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value
Phenol (CAS 108-95-2)	TWA	2 ppm
		4,5 mg/m <sup>3</sup>
	STEL	1 ppm
		8 mg/m <sup>3</sup>
	TWA	2 ppm
		4 mg/m <sup>3</sup>
		1 ppm

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1920 mg/m <sup>3</sup>
	TWA	1000 ppm
Formaldehyde (CAS 50-00-0)	STEL	960 mg/m <sup>3</sup>
	TWA	500 ppm
m-Cresol (CAS 108-39-4)	STEL	0,74 mg/m <sup>3</sup>
	TWA	0,6 ppm
p-Cresol (CAS 106-44-5)	STEL	0,37 mg/m <sup>3</sup>
	TWA	0,3 ppm
Phenol (CAS 108-95-2)	STEL	22 mg/m <sup>3</sup>
	TWA	5 ppm
Phenol (CAS 108-95-2)	STEL	22 mg/m <sup>3</sup>
	TWA	5 ppm
Phenol (CAS 108-95-2)	STEL	19 mg/m <sup>3</sup>
	TWA	5 ppm
Phenol (CAS 108-95-2)	STEL	19 mg/m <sup>3</sup>
	TWA	5 ppm

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1920 mg/m <sup>3</sup>
	STEL	1000 ppm
Formaldehyde (CAS 50-00-0)	STEL	2,5 mg/m <sup>3</sup>
	TWA	2 ppm
Phenol (CAS 108-95-2)	STEL	2,5 mg/m <sup>3</sup>
	TWA	2 ppm
Phenol (CAS 108-95-2)	STEL	16 mg/m <sup>3</sup>
	TWA	4 ppm
Phenol (CAS 108-95-2)	STEL	7,8 mg/m <sup>3</sup>
	TWA	2 ppm

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

Components	Type	Value
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup>
	STEL	5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m <sup>3</sup>
	STEL	5 ppm
Phenol (CAS 108-95-2)	STEL	16 mg/m <sup>3</sup>
	TWA	4 ppm
Phenol (CAS 108-95-2)	STEL	8 mg/m <sup>3</sup>
	TWA	2 ppm

## Biological limit values

### Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV) , Social Affairs and Ministry of Health

Components	Value	Determinant	Specimen	Sampling time
Phenol (CAS 108-95-2)	1,3 mmol/l	Total phenol	Urine	*

\* - For sampling details, please see the source document.

### France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

Components	Value	Determinant	Specimen	Sampling time
Phenol (CAS 108-95-2)	250 mg/g	Phenol total	Creatinine in urine	*

\* - For sampling details, please see the source document.

### Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling time
Phenol (CAS 108-95-2)	300 mg/l	Phenol	Urine	*

\* - For sampling details, please see the source document.

### Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	Value	Determinant	Specimen	Sampling time
Ethanol (CAS 64-17-5)	25 %	red blood cell or total blood acetylcholinest erase activity (EC. 3.1.1.7.)	Reduction from individual baseline activity in red blood cells	*
Formaldehyde (CAS 50-00-0)	25 %	red blood cell or total blood acetylcholinest erase activity (EC. 3.1.1.7.)	Reduction from individual baseline activity in red blood cells	*
m-Cresol (CAS 108-39-4)	25 %	red blood cell or total blood acetylcholinest erase activity (EC. 3.1.1.7.)	Reduction from individual baseline activity in red blood cells	*
p-Cresol (CAS 106-44-5)	25 %	red blood cell or total blood acetylcholinest erase activity (EC. 3.1.1.7.)	Reduction from individual baseline activity in red blood cells	*
Phenol (CAS 108-95-2)	300 mg/g	Phenol	Creatinine in urine	*

\* - For sampling details, please see the source document.

### Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Components	Value	Specimen	Sampling time
Phenol (CAS 108-95-2)	250 mg/g	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

### Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
Ethanol (CAS 64-17-5)	Workers	Dermal	343 mg/kg/day	Long term Systemic effects
		Inhalation	950 mg/m <sup>3</sup>	Long term Systemic effects
		Inhalation	1900 mg/m <sup>3</sup>	Acute Local effects

Components	Type	Route	Value	Form
Formaldehyde (CAS 50-00-0)	Workers	Dermal	240 mg/kg/day	Long term Systemic effects
		Inhalation	9 mg/m3	Long term Systemic effects
		Inhalation	1 mg/m3	Acute Local effects
Hexamethylenetetramine (CAS 100-97-0)	Workers	Inhalation	0,5 mg/m3	Long term Local effects
		Dermal	8,8 mg/kg/day	Long term Systemic effects
		Dermal	229 mg/kg/day	Acute Systemic effects
		Inhalation	31 mg/m3	Long term Systemic effects
m-Cresol (CAS 108-39-4)	Workers	Inhalation	1400 mg/m3	Acute Systemic effects
		Inhalation	343 mg/m3	Acute Systemic effects
		Inhalation	3,5 mg/m3	Long term Systemic effects
p-Cresol (CAS 106-44-5)	Workers	Inhalation	0,9 mg/m3	Acute Local effects
		Inhalation	0,9 mg/m3	Long term Local effects
		Inhalation	3,5 mg/m3	Long term Systemic effects
		Inhalation	233 mg/m3	Acute Systemic effects
Phenol (CAS 108-95-2)	Workers	Inhalation	0,9 mg/m3	Acute Local effects
		Inhalation	0,9 mg/m3	Long term exposure local effects
		Inhalation	0,9 mg/m3	Long term exposure local effects
		Inhalation	343 mg/m3	Acute exposure systemic effect
		Inhalation	3,5 mg/m3	Long term exposure systemic effects
		Inhalation	0,9 mg/m3	Acute exposure local effects
		Inhalation	0,9 mg/m3	Long term exposure local effects
		Inhalation	0,9 mg/m3	Long term exposure local effects
		Inhalation	0,9 mg/m3	Long term exposure local effects

**Predicted no effect concentrations (PNECs)**

Components	Type	Route	Value	Form
Ethanol (CAS 64-17-5)	Aqua (freshwater)	Not applicable	0,96 mg/l	
	Aqua (intermittent releases)	Not applicable	2,75 mg/l	
	Aqua (marine water)	Not applicable	0,79 mg/l	
	Oral	Not applicable	0,72 g/kg	
	Sediment (freshwater)	Not applicable	3,6 mg/kg	
	Sewage Treatment Plant	Not applicable	580 mg/l	
	Soil	Not applicable	0,63 mg/kg	
Formaldehyde (CAS 50-00-0)	Aqua (freshwater)	Not applicable	0,47 mg/l	
	Aqua (intermittent releases)	Not applicable	4,7 mg/l	
	Aqua (marine water)	Not applicable	0,47 mg/l	
	Sediment (freshwater)	Not applicable	2,44 mg/kg	
	Sediment (marine water)	Not applicable	2,44 mg/kg	
	Sewage Treatment Plant	Not applicable	0,19 mg/l	
	Soil	Not applicable	0,21 mg/kg	
Hexamethylenetetramine (CAS 100-97-0)	Aqua (freshwater)	Not applicable	3 mg/l	
	Aqua (intermittent releases)	Not applicable	30 mg/l	
	Aqua (marine water)	Not applicable	0,5 mg/l	
	Oral	Not applicable	0,05 g/kg	
	Sediment (freshwater)	Not applicable	11 mg/kg	
	Sediment (marine water)	Not applicable	1,84 mg/kg	

Components	Type	Route	Value	Form
m-Cresol (CAS 108-39-4)	Sewage Treatment Plant	Not applicable	100 mg/l	
	Soil	Not applicable	0,58 mg/kg	
	Aqua (freshwater)	Not applicable	0,1 mg/l	
	Aqua (intermittent releases)	Not applicable	0,076 mg/l	
	Aqua (marine water)	Not applicable	0,01 mg/l	
	Sediment (freshwater)	Not applicable	0,154 mg/kg	
p-Cresol (CAS 106-44-5)	Sewage Treatment Plant	Not applicable	1,14 mg/l	
	Soil	Not applicable	0,073 mg/kg	
	Aqua (freshwater)	Not applicable	0,03 mg/l	
	Aqua (intermittent releases)	Not applicable	0,044 mg/l	
	Aqua (marine water)	Not applicable	0,003 mg/l	
	Sediment (freshwater)	Not applicable	0,055 mg/kg	
Phenol (CAS 108-95-2)	Sewage Treatment Plant	Not applicable	1,65 mg/l	
	Soil	Not applicable	0,029 mg/kg	
	Aqua (freshwater)	Not applicable	0,1 mg/l	
	Aqua (intermittent releases)	Not applicable	0,076 mg/l	
	Aqua (marine water)	Not applicable	0,01 mg/l	
	Sediment (freshwater)	Not applicable	0,154 mg/kg	
	Sewage Treatment Plant	Not applicable	1,14 mg/l	
	Soil	Not applicable	0,073 mg/kg	

## 8.2. Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of exposure. An eye wash and safety shower must be available in the immediate work area.

### Individual protection measures, such as personal protective equipment

#### General information

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

#### Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

#### Skin protection

##### - Hand protection

Wear suitable gloves. Butyl rubber gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

##### - Other

Wear appropriate clothing to prevent possibility of skin contact.

#### Respiratory protection

In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2).

#### Thermal hazards

When material is heated, wear gloves to protect against thermal burns.

### Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### Environmental exposure controls

Environmental manager must be informed of all major spillages.

## SECTION 9: Physical and chemical properties

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

#### Appearance

Amber liquid with phenolic odour.

#### Physical state

Liquid.

#### Form

Viscous liquid.

#### Colour

Amber.

#### Odour

Phenolic.

#### Odour threshold

0,003 - 5 ppm (m-Cresol)

#### pH

Not applicable.

#### Melting point/freezing point

Not applicable.

<b>Initial boiling point and boiling range</b>	Not applicable.
<b>Flash point</b>	25,6 °C (78 °F) ASTM D3278 Setflash E
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Slight.
<b>Partition coefficient (n-octanol/water)</b>	No data available.
<b>Decomposition temperature</b>	> 648,9 °C (> 1200 °F) When cured
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.
<b>9.2. Other information</b>	
<b>Flammability</b>	Flammable liquid and vapour.
<b>Miscible (water)</b>	Not applicable.

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>10.4. Conditions to avoid</b>	Flames and sparks. Avoid static discharge and uncontrolled exposure to high temperatures. Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Strong oxidizers, strong acids, and strong bases. Strong reducing agents.
<b>10.6. Hazardous decomposition products</b>	Carbon oxides. Formaldehyde. Nitrogen oxides (NOx).

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	In high concentrations, vapours may be irritating to the respiratory system.
<b>Skin contact</b>	Causes severe skin burns.
<b>Eye contact</b>	Causes severe eye damage.
<b>Symptoms</b>	Slightly corrosive. Prolonged contact may causes serious eye and tissue damage. Prolonged or repeated inhalation/ingestion may cause central nervous system, blood, lung, liver or kidney damage.

### 11.1. Information on toxicological effects

**Acute toxicity** Harmful if swallowed.

Components	Species	Test results
Formaldehyde (CAS 50-00-0)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	0,48 mg/l, 4 Hours
m-Cresol (CAS 108-39-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	620 mg/kg



Components	Species	Test results
Oral LD50	Rat	242 mg/kg
p-Cresol (CAS 106-44-5)		
<b>Acute</b>		
Oral LD50	Rabbit	300 mg/kg
Oral LD50	Rat	207 mg/kg
Phenol (CAS 108-95-2)		
<b>Acute</b>		
Oral LD50	Rabbit	850 mg/kg
Oral LD50	Rat	530 mg/kg
<b>Skin corrosion/irritation</b>	Causes severe skin burns.	
<b>Serious eye damage/irritation</b>	Causes serious eye damage.	
<b>Respiratory sensitisation</b>	Not available.	
<b>Skin sensitisation</b>	The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals.	
<b>Germ cell mutagenicity</b>	Suspected of causing genetic defects.	
<b>Carcinogenicity</b>	Risk of cancer cannot be excluded with prolonged exposure.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Formaldehyde (CAS 50-00-0)	1 Carcinogenic to humans.	
Phenol (CAS 108-95-2)	3 Not classifiable as to carcinogenicity to humans.	
<b>Reproductive toxicity</b>	Not available.	
<b>Specific target organ toxicity - single exposure</b>	Not available.	
<b>Specific target organ toxicity - repeated exposure</b>	Not available.	
<b>Aspiration hazard</b>	Not available.	
<b>Mixture versus substance information</b>	Not available.	
<b>Other information</b>	Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure.	

## SECTION 12: Ecological information

**12.1. Toxicity** The product contains a substance which may be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Components	Species	Test results
Formaldehyde (CAS 50-00-0)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )
Fish	LC50	American eel ( <i>Anguilla rostrata</i> )
Hexamethylenetetramine (CAS 100-97-0)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )
Fish	LC50	Bleak ( <i>Alburnus alburnus</i> )
m-Cresol (CAS 108-39-4)		
<b>Aquatic</b>		
Crustacea	EC50	Scud ( <i>Gammarus fasciatus</i> )
Fish	LC50	Rainbow trout, donaldson trout ( <i>Oncorhynchus mykiss</i> )
p-Cresol (CAS 106-44-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )

Components	Species	Test results
Fish	LC50	Fish (Lepidocephalichthyes guntea)
		6,15 - 7,96 mg/l, 96 hours
<b>12.2. Persistence and degradability</b>	No data available.	
<b>12.3. Bioaccumulative potential</b>	No data available.	
<b>Partition coefficient n-octanol/water (log Kow)</b>	No data available.	
Formaldehyde		0,35
Phenol		1,46
p-Cresol		1,94
m-Cresol		1,96
<b>Bioconcentration factor (BCF)</b>	Not available.	
<b>12.4. Mobility in soil</b>	Not available.	
<b>Mobility in general</b>	The product is slightly soluble in water. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.	
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.	
<b>12.6. Other adverse effects</b>	The product contains volatile organic compounds which have a photochemical ozone creation potential. The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.	

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	08 04 09*
<b>Disposal methods/information</b>	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN1866
<b>14.2. UN proper shipping name</b>	Resin solution
<b>14.3. Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	-
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	No
<b>Tunnel restriction code</b>	Not available.
<b>Labels required</b>	3
<b>14.6. Special precautions for user</b>	Not available.

### RID

<b>14.1. UN number</b>	UN1866
<b>14.2. UN proper shipping name</b>	Resin solution
<b>14.3. Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	-
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	No
<b>Labels required</b>	3
<b>14.6. Special precautions for user</b>	Not available.

### ADN

<b>14.1. UN number</b>	UN1866
<b>14.2. UN proper shipping name</b>	Resin solution
<b>14.3. Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	-

<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	No
<b>Labels required</b>	3
<b>14.6. Special precautions for user</b>	Not available.

#### IATA

<b>14.1. UN number</b>	UN1866
<b>14.2. UN proper shipping name</b>	Resin solution
<b>14.3. Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	-
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Not available.
<b>Labels required</b>	Not available.
<b>ERG Code</b>	3L
<b>14.6. Special precautions for user</b>	Not available.

#### IMDG

<b>14.1. UN number</b>	UN1866
<b>14.2. UN proper shipping name</b>	Resin solution
<b>14.3. Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	-
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>Labels required</b>	Not available.
<b>EmS</b>	F-E, S-E
<b>14.6. Special precautions for user</b>	Not available.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**      This substance/mixture is not intended to be transported in bulk.

## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**

Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Hexamethylenetetramine (CAS 100-97-0)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**

Formaldehyde (CAS 50-00-0)

**Other EU regulations**

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**

Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Formaldehyde (CAS 50-00-0)

Hexamethylenetetramine (CAS 100-97-0)

m-Cresol (CAS 108-39-4)

p-Cresol (CAS 106-44-5)

Phenol (CAS 108-95-2)

**Directive 94/33/EC on the protection of young people at work**

Formaldehyde (CAS 50-00-0)

Hexamethylenetetramine (CAS 100-97-0)

m-Cresol (CAS 108-39-4)

p-Cresol (CAS 106-44-5)

Phenol (CAS 108-95-2)

**Other regulations**

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

**National regulations**

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Pregnant women should not work with the product, if there is the least risk of exposure. Follow national regulation for work with chemical agents.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**List of abbreviations**

DNEL: Derived No-Effect Level.  
PNEC: Predicted No-Effect Concentration.  
PBT: Persistent, bioaccumulative and toxic.  
vPvB: Very Persistent and very Bioaccumulative.

**References**

Not available.

**Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any statements or R-phrases and H-statements under Sections 2 to 15**

R10 Flammable.  
R11 Highly flammable.  
R20 Harmful by inhalation.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R24/25 Toxic in contact with skin and if swallowed.  
R34 Causes burns.  
R40 Limited evidence of a carcinogenic effect.  
R43 May cause sensitisation by skin contact.  
R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R68 Possible risk of irreversible effects.  
H228 - Flammable solid.  
H301 - Toxic if swallowed.  
H311 - Toxic in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H331 - Toxic if inhaled.  
H335 - May cause respiratory irritation.  
H341 - Suspected of causing genetic defects.  
H351 - Suspected of causing cancer.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.

**Training information**

Follow training instructions when handling this material.

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.