# SAFETY DATA SHEET

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

1.1 Product identifier

Product name : MACROPOXY M111 Epoxy Wet Blast Primer - Additive

**Product code** : M111A

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

**Material uses** : Paint or paint related material.

: Industrial use only.

# 1.3 Details of the supplier of the safety data sheet

Sherwin-Williams UK Limited - Protective & Marine

Coatings Division EMEAI

Tower Works Kestor Street Bolton BL2 2AL

United Kingdom +44 (0) 1204 521771

The Sherwin-Williams Company Inver France SAS 2 Rue Jean Revaus - BP 80088 - 79102

**Thouars CEDEX** 

France

e-mail address of person responsible for this SDS

: hse.pm.emea@sherwin.com

#### 1.4 Emergency telephone number

# National advisory body/Poison Centre

**Telephone number** : +353 1 809 2166 (08:00-22:00)

**Supplier** 

**Telephone number** : +(44)-870-8200 418

Hours of operation : Emergency contact available 24 hours a day

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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#### SECTION 2: Hazards identification

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms











Signal word : Danger

**Hazard statements**: Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Avoid

release to the environment. Do not breathe vapour.

**Response**: Collect spillage. IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Storage: Not applicable.Disposal: Not applicable.Hazardous ingredients: Polyamidoamine<br/>Methyl Ethyl Ketone

Xylene, mixed isomers

2,4,6-tris(dimethylaminomethyl)phenol

Amines, polyethylenepoly-, triethylenetetramine fraction

Supplemental label

elements

: FOR INDUSTRIAL USE ONLY

## **Special packaging requirements**

Not applicable.

# 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.

Other hazards which do not result in classification

: None known.

## SECTION 3: Composition/information on ingredients

3.2 Mixture :

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# **SECTION 3: Composition/information on ingredients**

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Polyamidoamine	REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
Methyl Ethyl Ketone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Xylene, mixed isomers	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - <20	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 11 mg/	[1] [2]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	<5	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/kg	[1]
Amines, polyethylenepoly-, triethylenetetramine fraction	REACH #: 01-2119487919-13 EC: 292-588-2 CAS: 90640-67-8 Index: 612-065-00-8	<1	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg	[1]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	<1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	_	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

# Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

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# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

**Eye contact**: Check for and remove any contact lenses. Immediately flush eyes with running

water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention.

**Inhalation**: Remove to fresh air. Keep person warm and at rest. If not breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognised skin cleanser. Do NOT use solvents or thinners.

If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

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

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains polyethlyenepolyamines. May produce an allergic reaction.

## 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

## **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing

media

: Recommended: alcohol-resistant foam, CO2, powders, water spray or mist.

Unsuitable extinguishing

media

: Do not use water jet.

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

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# **SECTION 5: Firefighting measures**

Hazards from the substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

# SECTION 6: Accidental release measures

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

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

Keep unnecessary and unprotected personnel from entering.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

# 7.1 Precautions for safe handling

: Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.

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# SECTION 7: Handling and storage

# Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

# 7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

## Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Contaminated absorbent material may pose the same hazard as the spilt product. Store in closed original container at temperatures between 5°C and 25°C.

# 7.3 Specific end use(s)

Recommendations : Not available. Industrial sector specific

: Not available. solutions

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Methyl Ethyl Ketone	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 200 ppm 8 hours. OELV-8hr: 600 mg/m³ 8 hours. OELV-15min: 300 ppm 15 minutes. OELV-15min: 900 mg/m³ 15 minutes.
Xylene, mixed isomers	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values  OELV-8hr: 50 ppm 8 hours. OELV-8hr: 221 mg/m³ 8 hours. OELV-15min: 100 ppm 15 minutes.
Ethylbenzene	OELV-15min: 442 mg/m³ 15 minutes.  NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values  OELV-8hr: 100 ppm 8 hours.  OELV-8hr: 442 mg/m³ 8 hours.

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# **SECTION 8: Exposure controls/personal protection**

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		OELV-15min: 200 ppm 15 minutes.
		OELV-15min: 884 mg/m³ 15 minutes.
	Toluene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
		derived Occupational Exposure Limit Values
		OELV-8hr: 50 ppm 8 hours.
		OELV-8hr: 192 mg/m³ 8 hours.
		OELV-15min: 100 ppm 15 minutes.
		OELV-15min: 384 mg/m³ 15 minutes.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
butanone	NAOSH (Ireland, 1/2011)  BMGV: 70 μmol/l, butan-2- one [in urine]. Sampling time: post shift.
xylene	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
ethylbenzene	NAOSH (Ireland, 1/2011)  BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical.  BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
toluene	NAOSH (Ireland, 1/2011)  BMGV: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.  BMGV: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.  BMGV: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.

# Recommended monitoring procedures

- : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- : Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

# **DNELs/DMELs**

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# SECTION 8: Exposure controls/personal protection

Methyl Ethyl Ketone  DNEL Long term Dermal Inhalation DNEL Long term Oral Inhalation DNEL Long term Dermal Inhalation DNEL Inhalation		Population	Value	Exposure	Type	Product/ingredient name
DNEL Long term nhalation  DNEL Long term Dermal  DNEL Long term Inhalation  DNEL Long term Oral  DNEL Long term Oral  DNEL Long term Dermal  DNEL Short term 289 mg/m³ Workers  Systemic  Workers Systemic  Workers Systemic  Workers Systemic  Workers Systemic  Workers Systemic  Workers Systemic  Workers Systemic  Workers Systemic  Workers Systemic  DNEL Short term 442 mg/m³ Workers Systemic  DNEL Long term 65.3 mg/m³ General Systemic  DNEL Short term 260 mg/m³ General Systemic  DNEL Short term 65.3 mg/m³ General Systemic	mic	Workers		Long term Dermal	DNEL	Methyl Ethyl Ketone
DNEL Long term Dermal bw/day  DNEL Long term Inhalation  DNEL Long term Oral  DNEL Long term Oral  DNEL Long term Oral  DNEL Long term Dermal bw/day  DNEL Long term Oral  DNEL Long term Dermal bw/day  DNEL Long term Dermal  DNEL Long term 221 mg/m³  Unhalation  DNEL Short term 289 mg/m³  Unhalation  DNEL Long term 442 mg/m³  DNEL Long term 65.3 mg/m³  General Systemic Systemic  Workers Systemic  Workers Systemic  Workers Systemic  Systemic  Systemic  DNEL Short term 442 mg/m³  DNEL Long term 65.3 mg/m³  General Systemic  DNEL Short term 260 mg/m³	mic	Workers			DNEL	
DNEL Long term Inhalation  DNEL Long term Oral  DNEL Long term Oral  DNEL Long term Dermal DNEL Short term Der	mic	General	412 mg/kg		DNEL	
DNEL Long term Oral 31 mg/kg bw/day Systemic population [Consumers]  DNEL Long term Oral 31 mg/kg General population [Consumers]  Nel Long term Dermal DNEL Short term D			bw/day			
Inhalation    DNEL   Long term Oral   Systemic   DNEL   Long term Dermal   Long term   Long term	mic		106 ma/m³	l ong term	DNEI	
DNEL Long term Oral 31 mg/kg bw/day Systemic population [Consumers]  NEL Long term Dermal 212 mg/m³ Workers Systemic DNEL Long term Dermal 125 mg/kg  DNEL Long term Dermal 125 mg/kg General Systemic population  DNEL Long term 221 mg/m³ Workers Systemic population  DNEL Short term 289 mg/m³ Workers Systemic population  DNEL Short term 289 mg/m³ Workers Systemic population  DNEL Short term 442 mg/m³ Workers Local  DNEL Long term 65.3 mg/m³ General population  DNEL Short term 260 mg/m³ General Local	iiiic	population	100 mg/m		DINEL	
Xylene, mixed isomers  DNEL Long term Dermal DNEL Long term DNEL Short term DNEL Short term DNEL Short term DNEL Short term DNEL Long term DNEL Short term DNEL Short term DNEL Long term DNEL Short term DNEL Shor	emic		31 ma/ka	ong term Oral	DNFI	
Xylene, mixed isomers  DNEL Long term Dermal DNEL Long term DNEL Short term DNEL Long term DNEL Short term D		population				
DNEL Long term Dermal 125 mg/kg General population  DNEL Long term 221 mg/m³ Workers Systemic  DNEL Short term 289 mg/m³ Workers Systemic  DNEL Short term 442 mg/m³ Workers Local  DNEL Long term 65.3 mg/m³ General population  DNEL Short term 65.3 mg/m³ General Local	emic		212 mg/m³	Long term Dermal	DNEL	Xylene, mixed isomers
DNEL Long term 10			_	<u> </u>		,
Inhalation  DNEL Short term Inhalation  DNEL Short term Inhalation  DNEL Short term Inhalation  DNEL Long term Inhalation						
Inhalation  DNEL Short term Inhalation  DNEL Long term Inhalation  DNEL Short term Inhalation  DNEL Short term	mic	Workers	221 mg/m³		DNEL	
Inhalation  DNEL Long term 65.3 mg/m³ General Systemic population  DNEL Short term 260 mg/m³ General Local	mic	Workers	289 mg/m <sup>3</sup>		DNEL	
DNEL Long term 65.3 mg/m³ General Systemic population  DNEL Short term 260 mg/m³ General Local		Workers	442 mg/m³	Short term	DNEL	
DNEL Short term 260 mg/m³ General Local	mic	General	65.3 mg/m <sup>3</sup>		DNEL	
Innalation I Indultation			260 mg/m <sup>3</sup>		DNEL	
DNEL Short term 174 mg/m³ General Systemic	mic		174 ma/m³		DNEI	
Inhalation   population	HIIIC		174 mg/m		DIVEL	
DNEL Long term Oral 1.5 mg/kg General Systemic population	mic	General	1.5 mg/kg		DNEL	
2,4,6-tris(dimethylaminomethyl)  DNEL Long term  Inhalation  DNEL Long term  O.53 mg/m³ Workers  Systemic	mic		0.53 mg/m³		DNEL	
DNEL Short term 2.1 mg/m³ Workers Systemic	mic	Workers	2.1 mg/m³	Short term	DNEL	priorioi
DNEL Long term Dermal 0.15 mg/kg Workers Systemic	emic	Workers	0.15 ma/ka		DNEL	
DNEL Short term Dermal   0.6 mg/kg   Workers   Systemic	emic	Workers	0.6 mg/kg			
DNEL Long term 0.13 mg/m³ General Systemic	mic		0.13 mg/m <sup>3</sup>		DNEL	
Inhalation population			0.40		DAIEI	
DNEL Short term 0.13 mg/m³ General Systemic population	mic		0.13 mg/m³		DNEL	
Inhalation   population   DNEL Long term Dermal   0.075 mg/   General   Systemic	emic		0.075 ma/		DNEI	
kg population			kg	2011101		
DNEL Short term Dermal 0.075 mg/ General Systemic	mic	General	0.075 mg/	Short term Dermal	DNEL	
DNEL Long term Oral   kg   population   Systemic   Systemic	mic	General	0.075 mg/	Long term Oral	DNEL	
Toluene   kg   population   Toluene   DNEL   Short term   226 mg/m³   General   Systemic	mic			Short term	DNEI	Toluene
Inhalation   population   Systemic	TITIO		ZZO IIIY/III		PINEL	LOIMELLE
[Human via the						
environment]		environment]				
DNEL Short term 226 mg/m³ General Local			226 mg/m <sup>3</sup>		DNEL	
Inhalation population				malation		
environment]						
DNEL Long term Dermal 226 mg/m³ General Systemic	mic		226 mg/m <sup>3</sup>	Long term Dermal	DNEL	
population		population				
[Human via the						
DNEL Long term 226 mg/kg General Systemic			226 ma/ka	ong term	DNEI	
DIVEL Folig term   220 mg/kg   General   Gystermic	mic	Conciai	ZZU my/ky	Long term	PINEL	

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	1			
	Inhalation	bw/day	population	
			[Human via the	
			environment]	
DNEL	Long term	56.5 mg/m <sup>3</sup>	General	Systemic
	Inhalation		population	•
			[Human via the	
			environment]	
DNEL	Long term Oral	8.13 mg/	_	Systemic
		kg bw/day	population	,
			[Human via the	
			environment]	
DNEL	Long term	192 mg/m³	_	Systemic
	Inhalation			,
DNEL	Long term	192 mg/m³	Workers	Local
	Inhalation	3		
DNEL	Short term	384 mg/m³	Workers	Systemic
	Inhalation	Jan Maria		-,
DNEL	Short term	384 mg/m³	Workers	Local
	Inhalation			
DNEL		384 mg/kg	Workers	Systemic
		bw/day		-,-:
DNEL	Long term	•	General	Local
	Inhalation	Joseph Market	population	2000.
	IIIIaaaai		[Consumers]	
	1		[Consumors]	

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
Methyl Ethyl Ketone	Fresh water	55.8 mg/l	-
	Marine water	55.8 mg/l	-
	Sewage Treatment	709 mg/l	-
	Plant		
	Sediment	284.7 mg/kg dwt	-
	Soil	22.5 mg/kg	-
	Secondary Poisoning	1000 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	Fresh water	0.046 mg/l	-
	Marine water	0.005 mg/l	-
	Sewage Treatment	0.262 mg/l	-
	Plant		
	Soil	0.025 mg/kg	-
Toluene	Fresh water sediment	0.68 mg/l	Assessment Factors
	Marine water sediment	0.68 mg/l	Assessment Factors
	Sewage Treatment	13.61 mg/l	Assessment Factors
	Plant		
	Soil	2.89 mg/kg	Assessment Factors
	Fresh water sediment	16.39 mg/kg dwt	-
	Marine water sediment	16.39 mg/kg dwt	-

#### 8.2 Exposure controls

Appropriate engineering controls

- : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.
- : Users are advised to consider national Occupational Exposure Limits or other equivalent values.

# **Individual protection measures**

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# SECTION 8: Exposure controls/personal protection

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Eye/face protection Skin protection Hand protection

**Gloves** 

: Use safety eyewear designed to protect against splash of liquids.

- : Wear suitable gloves tested to EN374.
- : Gloves for term exposure/splash protection (less than 10 min):Nitrile>0.12 mm Gloves for splash protection need to be changed immediately when in contact with chemicals.

Gloves for repeated or prolonged exposure (breakthrough time > 240 min.) When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl alcohol (PVA) gloves 0.2-0.3 mm Otherwise use: Butyl gloves >0.3 mm For long term exposure or spills (breakthrough time >480 min.): Use PE laminated gloves as under gloves

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.

The recommendation for the type or types of glove to usewhen handling this product is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG).

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

# **Body protection**

- : Personnel should wear antistatic clothing made of natural fibres or of hightemperature-resistant synthetic fibres.
- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

# Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Recommended: A2P2 (EN14387). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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# **SECTION 8: Exposure controls/personal protection**

Environmental exposure

: Do not allow to enter drains or watercourses.

controls

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use. control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

# SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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

**Appearance** 

Physical state : Liquid. Colour : Colourless. Odour : Paint

Odour threshold : Not Available (Not Tested).

pН : Not relevant/applicable due to nature of the product.

insoluble in water.

Melting point/freezing point

: Not relevant/applicable due to nature of the product.

Initial boiling point and

boiling range

: 78°C

: Closed cup: 9°C [Pensky-Martens Closed Cup] Flash point

Evaporation rate : 5.6 (butyl acetate = 1) **Flammability** : Flammable liquid.

Lower and upper explosion

limit

: LEL: 1% (Xylene, mixed isomers) UEL: 10% (Methyl Ethyl Ketone)

: 12.1 kPa (90.6 mm Hg) Vapour pressure

Relative vapour density : 2.48 [Air = 1]

Relative density : 0.89

Solubility(ies)

Media	Result
cold water	Not soluble

water

Partition coefficient: n-octanol/ : Not relevant/applicable due to nature of the product.

Auto-ignition temperature

Ingredient name	°C	°F	Method
Methyl Ethyl Ketone	475	887	

Decomposition temperature : Not relevant/applicable due to nature of the product.

**Viscosity** : Kinematic (40°C): <20.5 mm<sup>2</sup>/s

Explosive properties : Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising properties : Under normal conditions of storage and use, hazardous reactions will not occur.

**Particle characteristics** 

Median particle size : Not relevant/applicable due to nature of the product.

9.2 Other information

Heat of combustion : 16.633 kJ/g

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# SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Decomposition products may include the following materials: carbon monoxide,

carbon dioxide, smoke, oxides of nitrogen.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains polyethlyenepolyamines. May produce an allergic reaction.

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-

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# **SECTION 11: Toxicological information**

Toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-

# **Acute toxicity estimates**

Route	ATE value	
Oral	26278.3 mg/kg	
Dermal	7647.51 mg/kg	
Inhalation (gases)	46580.3 ppm	
Inhalation (vapours)	225.91 mg/l	

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	Skin - Mild irritant	Rat		mg 8 hours 60 uL	
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit		24 hours 500	_
	OKITI - Woderate IIIItalit	Rabbit	_	mg	_
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
2,4,6-tris	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
(dimethylaminomethyl)				ug	
phenol		5 (		0.005.14	
	Skin - Mild irritant	Rat	-	0.025 MI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
	Skin - Severe irritant	Rat		mg 0.25 MI	_
Toluene	Eyes - Mild irritant	Rabbit	_	0.5 minutes	_
Totalite	Lyos Willa IIIIaii	rabbit		100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
	Skin Modorata irritant	Pabbit		mg 500 mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-

Conclusion/Summary

: Not available.

**Sensitisation** 

No data available

Conclusion/Summary

: Not available.

**Mutagenicity** 

No data available

**Carcinogenicity** 

No data available

Reproductive toxicity

No data available

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# **SECTION 11: Toxicological information**

# **Teratogenicity**

No data available

# Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Methyl Ethyl Ketone Xylene, mixed isomers	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Toluene	Category 3	-	Narcotic effects

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene, mixed isomers	Category 2	-	-
Ethylbenzene	Category 2	-	hearing organs
Toluene	Category 2	-	-

## **Aspiration hazard**

Product/ingredient name	Result
Xylene, mixed isomers Ethylbenzene Toluene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### 11.2 Information on other hazards

# 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
Methyl Ethyl Ketone	Acute EC50 >500000 μg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 5091000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Larvae	48 hours
	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Xylene, mixed isomers	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Toluene	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours

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# **SECTION 12: Ecological information**

Acu	. 0	Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling,	48 hours
		Weanling)	
Acu	ute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch -	96 hours
		Fry	
Chi	ronic NOEC 1 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days

# 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
No data available				

# **Conclusion/Summary**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl Ethyl Ketone	-	-	Readily
Xylene, mixed isomers	-	-	Readily
Ethylbenzene	-	-	Readily
Toluene	-	-	Readily

# 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene, mixed isomers	-	8.1 to 25.9	Low
Toluene	-	90	Low

## 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

*Mobility* : Not available.

# 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# 12.6 Endocrine disrupting properties

Not available.

## 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal : T

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: Yes.

European waste catalogue (EWC)

 waste paint and varnish containing organic solvents or other hazardous substances 08 01 11\*

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# **SECTION 13: Disposal considerations**

Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

**Packaging** 

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

European waste catalogue (EWC) Special precautions : packaging containing residues of or contaminated by hazardous substances 15 01

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL. Marine pollutant (Polyamidoamine)	PAINT RELATED MATERIAL
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Special provisions 640 (C)  Tunnel code D/E	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Emergency schedules F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.

# user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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# **SECTION 14: Transport information**

14.7 Maritime transport in

: Not applicable.

bulk according to IMO

instruments

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

# **SECTION 15: Regulatory information**

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

## EU Regulation (EC) No. 1907/2006 (REACH)

# Annex XIV - List of substances subject to authorisation

#### **Annex XIV**

None of the components are listed.

# <u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</u>

Product/ingredient name	%	Designation [Usage]
MACROPOXY M111 Epoxy Wet Blast Primer - Additive	≥90	3
toluene	<1	48

Labelling : Not applicable.

Other EU regulations

VOC content (2010/75/EU) : 48.7 w/w

435 **g/l** 

**Explosive precursors**: Not applicable.

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### **National regulations**

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

N/A = Not available

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#### **SECTION 16: Other information**

Key literature references and sources for data

: Regulation (EC) No. 1272/2008 [CLP]

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Commission Regulation (EU) 2020/878

Directive 2012/18/EU, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions

**CEPE Guidelines** 

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification
Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411		On basis of test data Calculation method
Full text of abbreviated H statements	H226 H302 H304 H312 H314 H315 H317 H318 H319 H332 H335 H336 H361d H373	Highly flammable liquid and vapour. Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 STOT RE 2	Category 2

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## **SECTION 16: Other information**

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE

**EXPOSURE - Category 3** 

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: If there is no previous validation date please contact your supplier for more

information.

Version : 5

#### **Notice to reader**

In accordance with Regulation (EC) 1907/2006, REACH Regulation, Articles 31, 37, any required hazard-related information on the use of substances received as downstream user will be sent forward. Consequently, the safety data sheets for some products will contain a SUMI - Safe Use of Mixture Information - attached to the safety data sheet.

SUMI(s) will be added to the SDS for products if both the following conditions are met:

- The product is classified as hazardous for health
- The product contains one or more REACH-registered substances for which extended safety data sheets (exposure scenarios) have been provided

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become make themselves aware of and understand the data contained in this SDS and any hazards that may be associated with the product. This information is provided in good faith and believed to be accurate as of the effective date mentioned herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can may change later the composition, hazards and risks of the product. Products shall should not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to, the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buver/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for the use of the product are not under the manufacturer's control of the manufacturer; the customer/buyer/user is responsible to for determine determining the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS, without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be held responsible for SDSs obtained from any other source.

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