# **SAFETY DATA SHEET**



TEKNOCOAT 1366-11

SECTION 1: Identifundertaking	fication of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: TEKNOCOAT 1366-11
	es of the substance or mixture and uses advised against
Product description	: Paint.
1.3 Details of the supplier	of the safety data sheet
Teknos (UK) Limited, Unit +44 (0) 1608 683 494.	t E1, Heath Farm, Banbury Road, Swerford, Oxfordshire OX7 4BN, United Kingdom. Tel.
Teknos Group Oy, Takkati E-mail: msds@teknos.dk	ie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.
National contact	
Teknos (UK) Limited, Unit +44 (0) 1608 683 494.	t E1, Heath Farm, Banbury Road, Swerford, Oxfordshire OX7 4BN, United Kingdom. Tel.
1.4 Emergency telephone	number
National advisory body/F	<u>Poison Centre</u>
Telephone number	: NHS: 111 (for advise), 999 (for emergency).
SECTION 2: Hazar	ds identification
2.1 Classification of the su	ubstance or mixture
Product definition	: Mixture
<b>Classification according</b>	to Regulation (EC) No. 1272/2008 [CLP/GHS]
Flam. Liq. 2, H225	
Eye Dam. 1, H318	
Skin Sens. 1, H317 STOT SE 3, H336	
	s hazardous according to Regulation (EC) 1272/2008 as amended.
•	text of the H statements declared above.
	etailed information on health effects and symptoms.
2.2 Label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: H225 - Highly flammable liquid and vapour.
	H318 - Causes serious eye damage.

- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.

**Precautionary statements** 

Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> </ul>
Response	<ul> <li>P303 + P353 - IF ON SKIN (or hair): Rinse skin with water or shower.</li> <li>P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician.</li> </ul>

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# SECTION 2: Hazards identification

Storage	: P403 - Store in a well-ventilated place.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Isobutyl acetate iso-butanol Fatty acids, C14-18 and C16-18-unsatd., maleated
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:

## 2.3 Other hazards

Other hazards which do : None known. not result in classification

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

3.2 Mixtures	: Mixture			
Product/ingredient name	Identifiers	%	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
Isobutyl acetate	REACH #: 01-2119488971-22 EC: 203-745-1 CAS: 110-19-0 Index: 607-026-00-7	≥25 - <50	Flam. Liq. 2, H225 STOT SE 3, H336 EUH066	[1] [2]
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥10 - <25	Flam. Liq. 2, H225	[2]
Urea-formaldehyde-polymer	CAS: 68002-18-6	≥5 - <10	Aquatic Chronic 4, H413	[1]
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥3 - <5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥3 - <5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥2 - <3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
1-Methoxy 2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1 - <3	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
Melamine P/W formaldehyde, butylated	CAS: 68002-25-5	≥1 - <3	Aquatic Chronic 4, H413	[1]
Fatty acids, C14-18 and C16-18-unsatd., maleated	REACH #: 01-2119976378-19 CAS: 85711-46-2	≥1 - <1.8	Skin Irrit. 2, H315 Skin Sens. 1, H317	[1]
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# SECTION 3: Composition/information on ingredients See Section 16 for the full text of the H statements declared above.

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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

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

## SECTION 4: First aid measures

4.1	Descri	ption	of	first	aid	measures
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Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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 symptor Potential acute health effe	is and effects, both acute and delayed
Eye contact	: Causes serious eye damage.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or

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dizziness.

Skin contact	: May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
<u>Over-exposure signs/</u>	symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	<ul> <li>Adverse symptoms may include the following: stomach pains</li> </ul>

#### spea ' y

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.

# SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	ron	n the substance or mixture
Hazards from the substance or mixture	:	Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous combustion products	1	In a fire, decomposition may produce toxic gases/fumes.
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	4 -	

## SECTION 6: Accidental release measures

6.1 Personal precautions,	protective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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## **SECTION 6: Accidental release measures**

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	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## **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

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on bygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## Seveso Directive - Reporting thresholds (in tonnes) Danger criteria

## **SECTION 7: Handling and storage**

· · ·	Notification and MAPP threshold	Safety report threshold
P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	5000	50000
C6: Flammable (R10)	5000	50000

## 7.3 Specific end use(s)

Recommendations :	Not available.
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Industrial sector specific : Not available.

solutions

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

## 8.1 Control parameters

Occupational expective limite

Isobutyl acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011).
<b>,</b>	STEL: 903 mg/m <sup>3</sup> 15 minutes.
	STEL: 187 ppm 15 minutes.
	TWA: 724 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
Ethanol	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	TWA: 1000 ppm 8 hours.
	TWA: 1920 mg/m³ 8 hours.
iso-butanol	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 231 mg/m <sup>3</sup> 15 minutes.
	STEL: 75 ppm 15 minutes.
	TWA: 154 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Ethyl acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
Propan-2-ol	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 1250 mg/m <sup>3</sup> 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 999 mg/m³ 8 hours.
	TWA: 400 ppm 8 hours.
1-Methoxy 2-propanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 560 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
Recommended monitoring	: If this product contains ingredients with exposure limits, personal, workplace
procedures	atmosphere or biological monitoring may be required to determine the effectiveness
	of the ventilation or other control measures and/or the necessity to use respiratory
	protective equipment. Reference should be made to monitoring standards, such as
	the following: European Standard EN 689 (Workplace atmospheres - Guidance for

## **DNELs/DMELs**

No DNELs/DMELs available.

## **PNECs**

required.

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

documents for methods for the determination of hazardous substances will also be

for the measurement of chemical agents) Reference to national guidance

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

No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	
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	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	<ul> <li>Recommendations : Wear suitable gloves tested to EN374.</li> <li>&lt; 1 hour (breakthrough time): Nitrile gloves. thickness &gt; 0.3 mm</li> <li>1 - 4 hours (breakthrough time): polyvinyl alcohol (PVA) thickness &gt; 0.3 mm or 4H / Silver Shield® gloves.</li> <li>&gt; 8 hours (breakthrough time): Viton® thickness &gt; 0.3 mm gloves</li> </ul>
	Wash hands before breaks and immediately after handling the product.
Body protection	: 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	<ul> <li>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.</li> </ul>
Respiratory protection	<ul> <li>Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.</li> <li>Filter type: A spray application Filter type: A P</li> </ul>
Environmental exposure controls	<ul> <li>spray application Filter type: A P</li> <li>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.</li> </ul>

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties **Appearance Physical state** : Liquid. Colour Various 2 Odour : Slight : Not available. **Odour threshold** pН ŝ. Not available. Melting point/freezing point : Not available. : Not available. Initial boiling point and boiling range : Closed cup: 21°C **Flash point** : Not available. **Evaporation rate** Flammability (solid, gas) Not available. 2 Upper/lower flammability or : Lower: 0.8% **explosive limits** Upper: 19% Vapour pressure : Not available. Vapour density : Not available. **Density** : 1 kg/l Solubility(ies) : Not available. Partition coefficient: n-octanol/ : Not available. water **Auto-ignition temperature** : Not available. **Decomposition temperature** Not available. 5 Viscosity : Not available. **Explosive properties** : Not available. Not available. **Oxidising properties** •

## 9.2 Other information

VOC

: 604 g/l

No additional information.

## **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	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isobutyl acetate	LD50 Dermal	Rabbit	>17400 mg/kg	-
-	LD50 Oral	Rat	13400 mg/kg	-
Urea-formaldehyde-polymer	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
iso-butanol	LC50 Inhalation Vapour	Rat	19200 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
·	LD50 Oral	Rat	5000 mg/kg	-
1-Methoxy 2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-

**Conclusion/Summary** : Not available.

## Acute toxicity estimates

Not available.

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isobutyl acetate	Eyes - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
		5		milligrams	
Urea-formaldehyde-polymer	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
		5		microliters	
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Even Mederate irritent	Dabbit		milligrams	
	Eyes - Moderate irritant Eyes - Severe irritant	Rabbit Rabbit	-	10 milligrams	-
		Rabbit	-	milligrams	-
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
1-Methoxy 2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
Conclusion/Summary	: Not available.	•		•	
Sensitisation					

-	
Sensitisation	
<b>Conclusion/Summary</b>	: Not available.
Mutagenicity	
<b>Conclusion/Summary</b>	: Not available.
<b>Carcinogenicity</b>	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
<b>Teratogenicity</b>	
Conclusion/Summary	: Not available.
Specific target organ toxi	(icity (single exposure)

	redient na	me	Category	Route of	Target organs
				exposure	
Isobutyl acetate iso-butanol			Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation and Narcotic effects
Ethyl acetate			Category 3	Not applicable.	Narcotic effects
Propan-2-ol 1-Methoxy 2-propanol			Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Narcotic effects
Specific target organ toxici	ty (repeat	ed exposure)			
Not available.					
Aspiration hazard					
Not available.					
nformation on the likely outes of exposure	: Not a	ailable.			
otential acute health effect	<u>s</u>				
Eye contact	: Cause	s serious eye da	mage.		
Inhalation	: Can c dizzin		rous system (CNS) d	epression. May ca	use drowsiness or
Skin contact	: May c	ause an allergic s	skin reaction.		
Ingestion	: Can c	ause central nerv	ous system (CNS) d	epression.	
ymptoms related to the phy					
Eye contact	: Adver pain water redne	ng	y include the followir	ng:	
Inhalation	nause heada drows dizzin	a or vomiting	y include the followir	ng:	
Skin contact	pain c redne	r irritation	y include the followir	ıg:	
Ingestion		se symptoms ma ch pains	y include the followir	ng:	
elayed and immediate effe	cts and al	o chronic effec	ts from short and lo	ong term exposure	2
<u>Short term exposure</u>					
Potential immediate effects	: Not a	ailable.			
Potential delayed effects	: Not a	ailable.			
Long term exposure Potential immediate	: Not a	ailable.			
effects					
Potential delayed effects	: Not a	ailable.			
Potential chronic health eff Not available.	ects				

# **SECTION 11: Toxicological information**

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

**Other information** : Not available.

## **SECTION 12: Ecological information**

12.1 Toxicity

Result	Species	Exposure
Acute EC50 1200000 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata - Larvae	48 hours
Acute LC50 1030000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
Chronic NOEC 12 mg/l Fresh water	Daphnia - Daphnia magna	21 days
Chronic NOEC 75.6 mg/l Fresh water	Fish - Pimephales promelas - Embryo	32 days
Acute LC50 1400000 to 1950000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
Acute LC50 4200000 µg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
	Acute LC50 1030000 µg/l Fresh water Acute LC50 1330000 µg/l Fresh water Acute EC50 2500000 µg/l Fresh water Acute LC50 750000 µg/l Fresh water Acute LC50 154000 µg/l Fresh water Acute LC50 212500 µg/l Fresh water Chronic NOEC 12 mg/l Fresh water Chronic NOEC 75.6 mg/l Fresh water Acute LC50 1400000 to 1950000 µg/l Marine water	Acute LC50 1030000 µg/l Fresh waterreticulata - LarvaeAcute LC50 1330000 µg/l Fresh waterDaphnia - Daphnia magna - NeonateAcute LC50 1330000 µg/l Fresh waterFish - Oncorhynchus mykissAcute LC50 2500000 µg/l Fresh waterAlgae - Selenastrum sp.Acute LC50 750000 µg/l Fresh waterCrustaceans - Gammarus pulexAcute LC50 154000 µg/l Fresh waterDaphnia - Daphnia cucullataAcute LC50 212500 µg/l Fresh waterFish - Heteropneustes fossilisChronic NOEC 12 mg/l Fresh waterDaphnia - Daphnia magnaChronic NOEC 75.6 mg/l Fresh waterFish - Pimephales promelas - EmbryoAcute LC50 1400000 to 1950000 µg/lCrustaceans - Crangon crangon

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
iso-butanol	-	74 % - Readily - 28 days		-	-
Conclusion/Summary	: Not available.	1			
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability
iso-butanol	-		-		Readily

## **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Isobutyl acetate	2.3	-	low
iso-butanol	1	-	low
Ethyl acetate	0.68	30	low
Propan-2-ol	0.05	-	low
1-Methoxy 2-propanol	<1	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessme				
PBT	: Not applicable.			
vPvB	: Not applicable.			

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# **SECTION 12: Ecological information**

## **12.6 Other adverse effects**

: No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

13.1 Waste treatment method	S	
Product		
Methods of disposal	:	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	:	The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	:	080111
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.
Special precautions	:	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	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group		11		
14.5 Environmental hazards	No.	Yes.	No.	No.
Additional information       Hazard identification number 33         Limited quantity LQ6       Special provisions 163 640C 650         Tunnel code (D/E)       (D/E)		The product is only regulated as an environmentally hazardous substance when transported in tank vessels.	Emergency schedules (EmS) F-E, _S-E_ Special provisions 163	-

## **SECTION 14: Transport information**

**14.6 Special precautions for user**: **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.

 14.7 Transport in bulk
 : Not available.

 according to Annex II of

 MARPOL 73/78 and the IBC

 Code

## **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. Substances of very high concern None of the components are listed. Annex XVII - Restrictions : on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other EU regulations **Europe inventory** : Not determined. **Priority List Chemicals** : Listed (793/93/EEC) **Seveso Directive** This product is controlled under the Seveso Directive. **Danger criteria** Category P5c: Flammable liquids 2 and 3 not falling under P5a or P5b C6: Flammable (R10) International regulations **Chemical Weapon Convention List Schedules I, II & III Chemicals** Not listed. Montreal Protocol (Annexes A, B, C, E) Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. **Rotterdam Convention on Prior Inform Consent (PIC)** Not listed. **UNECE Aarhus Protocol on POPs and Heavy Metals** Not listed. : This product contains substances for which Chemical Safety Assessments are still **15.2 Chemical Safety** Assessment required.

SECTION 16: Other information				
Indicates information that h	nas	changed from previously is	ssued 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		
			Regulation (EC) No. 1272/2008 [CLP/GHS]	
Classif	icat	ion	Justification	
Flam. Liq. 2, H225 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H336			On basis of test data Calculation method Calculation method Calculation method	
Full text of abbreviated H statements	:	H225 H226 H315 H317 H318 H319 H335 H336 H413	Highly flammable liquid and vapour. Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause long lasting harmful effects to aquatic life.	
Full text of classifications [CLP/GHS]	:	Aquatic Chronic 4, H413 EUH066 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336	LONG-TERM AQUATIC HAZARD - Category 4 Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	
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Version	:	1.02		

## Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.