## SAFETY DATA SHEET



TEKNOCOAT 1677-04

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

1.1 Product identifier

Product name : TEKNOCOAT 1677-04

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person

of person : Prod-safe@teknos.com

responsible for this SDS

**National contact** 

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

**National advisory body/Poison Centre** 

Telephone number : Malta Competition and Consumer Affairs Authority (MCCAA): +356 2395 2000

## **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. 3, H226 Eye Dam. 1, H318 STOT SE 3, H336

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 : H226 - Flammable liquid and vapour. H318 - Causes serious eye damage.

H336 - May cause drowsiness or dizziness.

**Precautionary statements** 

**Prevention**: P280 - Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Response : P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

**Storage** : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

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## **SECTION 2: Hazards identification**

**Disposal** 

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** 

Supplemental label

: Contains: n-Butyl acetate and Butan-1-ol

elements

: Contains Formaldehyde. May produce an allergic reaction.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### 2.3 Other hazards

**Product meets the criteria** for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

vPvB.

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

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

#### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Urea-formaldehyde-polymer	CAS: 68002-18-6	≤10	Aquatic Chronic 4, H413	-	[1]
Urea, polymer with formaldehyde, butylated	CAS: 68002-19-7	≤10	Aquatic Chronic 4, H413	-	[1]
Butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE [Oral] = 790 mg/kg	[1]
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319	-	[1]
Formaldehyde	REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: $C \ge 25\%$ Skin Irrit. 2, H315: $5\% \le C < 25\%$ Eye Dam. 1, H318: $C \ge 25\%$	[1] [2]

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SECTION 3: Composition/information on ingredients						
			Eye Irrit. 2, H319: 5% ≤ C < 25% Skin Sens. 1, H317: C ≥ 0.2% STOT SE 3, H335: C ≥ 5%			
		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.

## <u>Type</u>

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

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**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. Flush contaminated skin with plenty of 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. 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. 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 symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

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## **SECTION 4: First aid measures**

**Eve contact** : Adverse symptoms may include the following:

> 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 : Adverse symptoms may include the following:

stomach pains

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

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

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 from the substance or mixture

Hazards from the substance or mixture : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides metal oxide/oxides

## 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.

## 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 noncombustible, 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

: 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

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). 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 hygiene 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 oxidising 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**

## **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

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

### 7.3 Specific end use(s)

Recommendations : Not available.

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 exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values
	STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 241 mg/m³ 8 hours.
Formaldehyde	TWA: 50 ppm 8 hours.  Ministry of Health (Malta, 1/2021). Skin sensitiser.  TWA: 0.5 ppm 8 hours.  TWA: 0.62 mg/m³ 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	

# 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.

## **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
	DATE		bw/day		
	DNEL	Long term	35.7 mg/m <sup>3</sup>		Local
		Inhalation		population	
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	300 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
		1			

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#### **SECTION 8: Exposure controls/personal protection** bw/day population **DNEL** Long term Dermal 7 mg/kg Workers Systemic bw/dav **DNEL** Long term 12 mg/m<sup>3</sup> General Systemic Inhalation population **DNEL** Long term 48 mg/m<sup>3</sup> Workers Systemic Inhalation Butan-1-ol DNEL Long term Oral 1.5625 mg/ General Systemic kg bw/day population DNEL Long term Dermal 3.125 mg/ General Systemic kg bw/day population 55.357 mg/ Systemic **DNEL** Long term General Inhalation m<sup>3</sup> population General **DNEL** Long term 155 mg/m<sup>3</sup> Local Inhalation population **DNEL** Long term 310 mg/m<sup>3</sup> Workers Local Inhalation 87 mg/kg Ethanol **DNEL** Long term Oral General Systemic bw/day population 114 mg/m<sup>3</sup> **DNEL** Long term General Systemic Inhalation population **DNEL** 206 mg/kg Long term Dermal General Systemic bw/day population 343 mg/kg DNEL Long term Dermal Workers Systemic bw/dav Short term 950 mg/m<sup>3</sup> DNEL General Local Inhalation population 950 mg/m<sup>3</sup> DNEL Long term Workers Systemic Inhalation DNEL Short term 1900 mg/ Workers Local Inhalation m<sup>3</sup> Formaldehyde DNEL Long term 0.375 mg/ Workers Local Inhalation m<sup>3</sup> **DNEL** Short term 0.75 mg/m<sup>3</sup> Workers Local Inhalation DNEL Long term Dermal 12 µg/cm<sup>2</sup> General Local population 37 µg/cm<sup>2</sup> Workers DNEL Long term Dermal Local Long term DNEL 0.1 mg/m<sup>3</sup> General Local Inhalation population **DNEL** Long term 3.2 mg/m<sup>3</sup> General Systemic Inhalation population

#### **PNECs**

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.

4.1 mg/kg

bw/day

9 mg/m<sup>3</sup>

bw/dav

bw/day

102 mg/kg

240 mg/kg

General

Workers

General

Workers

population

population

Systemic

Systemic

Systemic

Systemic

**Individual protection measures** 

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**DNEL** 

**DNEL** 

**DNEL** 

**DNEL** 

Long term Oral

Long term Dermal

Long term Dermal

Long term

Inhalation

## **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. 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.

## **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

: 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**

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Filter type: A

Filter type (spray application): A P

# **Environmental exposure controls**

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.

## 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 : Various

Odour : Slight

Odour threshold : Not avails

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

.

Ingredient name	°C	°F	Method
Ethanol	78.29	172.9	
Butan-1-ol	119	246.2	OECD 103

Flammability : Not available.

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## SECTION 9: Physical and chemical properties

Lower and upper explosion

: Lower: 1.4% Upper: 19% limit

Flash point : Closed cup: 27°C (80.6°F)

Not available.

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
Butan-1-ol	355	671	EU A.15
n-Butyl acetate	415	779	EU A.15

**Decomposition temperature** : Not available. : Not applicable. pН

Solubility(ies)

Not available.

**Viscosity** 

Solubility in water : Not available. Partition coefficient: n-octanol/ : Not applicable.

Vapour pressure

	Vapour Pressure at 20°C		Va	re at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethanol	42.94865	5.7				
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2			

: Not available. **Relative density** : 1 g/cm<sup>3</sup> **Density** : Not available. Vapour density : Not available. **Explosive properties** : Not available. **Oxidising properties** 

**Particle characteristics** 

: Not applicable. Median particle size

## 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.

: Reactive or incompatible with the following materials: 10.5 Incompatible materials

oxidising materials

10.6 Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

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## **SECTION 11: Toxicological information**

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

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Urea-formaldehyde-polymer	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
Formaldehyde	LC50 Inhalation Gas.	Rat	250 ppm	4 hours
-	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-

## Conclusion/Summary

: Based on available data, the classification criteria are not met.

## **Acute toxicity estimates**

Route	ATE value
Oral	16218.8 mg/kg

## **Irritation/Corrosion**

Result	Species	Score	Exposure	Observation
Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Rabbit	-	24 hours 500	-
			mg	
Eyes - Severe irritant	Rabbit	-	24 hours 100	-
			uL	
Eyes - Severe irritant	Rabbit	-	0.005 MI	-
Eyes - Severe irritant	Rabbit	-	24 hours 2	-
			mg	
Skin - Moderate irritant	Rabbit	-	24 hours 20	-
			mg	
Eyes - Mild irritant	Rabbit	-	24 hours 500	-
			mg	
Eyes - Moderate irritant	Rabbit	-	0.066666667	-
			minutes 100	
			mg	
Eyes - Moderate irritant	Rabbit	-	100 uL	-
Eyes - Severe irritant	Rabbit	-	500 mg	-
Skin - Mild irritant	Rabbit	-	400 mg	-
Skin - Moderate irritant	Rabbit	-	24 hours 20	-
			mg	
Eyes - Mild irritant	Human	-	6 minutes 1	-
			ppm	
Eyes - Severe irritant	Rabbit	-	24 hours 750	-
			ug	
Eyes - Severe irritant	Rabbit	-	750 ug	-
Skin - Mild irritant	Human	-	72 hours 150	-
			ug I	
Skin - Mild irritant	Rabbit	-	540 mg	-
Skin - Moderate irritant	Rabbit	-	24 hours 50	-
			mg	
Skin - Severe irritant	Human	-	0.01 %	-
Skin - Severe irritant	Rabbit	-	0.8 %	-
Skin - Severe irritant	Rabbit	-	24 hours 2	-
			mg	
	Eyes - Moderate irritant Skin - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Skin - Moderate irritant Eyes - Mild irritant Eyes - Moderate irritant Eyes - Moderate irritant Eyes - Moderate irritant Eyes - Severe irritant Skin - Mild irritant Skin - Moderate irritant Eyes - Severe irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Eyes - Severe irritant Skin - Mild irritant Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritant Skin - Moderate irritant Skin - Severe irritant Skin - Severe irritant	Eyes - Moderate irritant Skin - Moderate irritant Eyes - Severe irritant Rabbit Eyes - Moderate irritant Eyes - Mild irritant Eyes - Moderate irritant Eyes - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Skin - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Eyes - Mild irritant Eyes - Severe i	Eyes - Moderate irritant Skin - Moderate irritant Skin - Moderate irritant Eyes - Severe irritant Rabbit - Skin - Moderate irritant Eyes - Mild irritant Eyes - Moderate irritant Eyes - Moderate irritant Eyes - Moderate irritant Eyes - Severe irritant Skin - Mild irritant Skin - Mild irritant Eyes - Severe irritant Eyes - Severe irritant Rabbit - Eyes - Mild irritant Rabbit - Eyes - Severe irritant Rabbit - Skin - Mild irritant Rabbit - Rab	Eyes - Moderate irritant Skin - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Skin - Moderate irritant Eyes - Mild irritant Eyes - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Ey

**Conclusion/Summary Sensitisation** 

: Based on available data, the classification criteria are not met.

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

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## **SECTION 11: Toxicological information**

Mutagenicity

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

**Carcinogenicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

**Reproductive toxicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

**Teratogenicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-Butyl acetate	Category 3	-	Narcotic effects
Butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Formaldehyde	Category 3	-	Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes : Not available.

of exposure

Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: No known significant effects or critical hazards.

**Ingestion** : Can cause central nervous system (CNS) depression.

#### Symptoms related to the physical, chemical and toxicological characteristics

**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** : Adverse symptoms may include the following:

stomach pains

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

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## **SECTION 11: Toxicological information**

## Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

## Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

## 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**

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
-	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Butan-1-ol	Acute EC50 1983000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1730000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 μg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - <i>Gambusia holbrooki</i> - Larvae	12 weeks
Formaldehyde	Acute EC50 3.48 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 0.788 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 12.98 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 5800 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 1.41 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.005 mg/l Marine water	Algae - <i>Isochrysis galbana</i> - Exponential growth phase	96 hours
	Chronic NOEC 953.9 ppm Fresh water	Fish - Oncorhynchus tshawytscha - Egg	43 days

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

## 12.2 Persistence and degradability

**Conclusion/Summary**: This product has not been tested for biodegradation.

## 12.3 Bioaccumulative potential

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## **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
n-Butyl acetate	2.3	-	Low
Butan-1-ol	1	-	Low
Ethanol	-0.35	-	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** 

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** 

European waste catalogue (EWC)

: 08.01.11

**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.

: The classification of the product may meet the criteria for a hazardous waste.

**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.

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## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, butan-1-ol)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, butan-1-ol)	FLAMMABLE LIQUID, N.O.S. (2-methylpropan-1-ol)	FLAMMABLE LIQUID, N.O.S. (2-methylpropan-1-ol)

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## **SECTION 14: Transport information**

14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	Ш
14.5 Environmental hazards	No.	Yes.	No.	No.

## **Additional information**

ADR/RID : Tunnel code (D/E)

**ADN** : The product is only regulated as an environmentally hazardous substance when

transported in tank vessels.

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 Maritime transport in bulk according to IMO

instruments

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

## **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

Product/ingredient name	%	Designation [Usage]
TEKNOCOAT 1677-04	≥90	3
Formaldehyde	<0.1	72

Labelling

**Other EU regulations** 

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Air

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

**Explosive precursors** : Not applicable. Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

## **Persistent Organic Pollutants**

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## SECTION 15: Regulatory information

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

P<sub>5</sub>c

## International regulations

## Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

## **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

## Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

## **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

## 15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments are still required.

## **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

N/A = Not available

PBT = Persistent. Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification	
Eye Dam. 1, H318	On basis of test data Calculation method Calculation method	

## Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

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## **SECTION 16: Other information**

H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H341 Suspected of causing genetic defects.

H350 May cause cancer.

H413 May cause long lasting harmful effects to aquatic life.
EUH066 Repeated exposure may cause skin dryness or cracking.

## Full text of classifications [CLP/GHS]

Acute Tox. 3 ACUTE TOXICITY - Category 3
Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Chronic 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4

Carc. 1B CARCINOGENICITY - Category 1B

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3
Muta. 2 GERM CELL MUTAGENICITY - Category 2
Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITISATION - Category 1

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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FKNOCOAT 1677-04 All variant

#### **Notice to reader**

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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