

# SAFETY DATA SHEET

## Autoclear Rapid

# 1. Product and company identification

GHS product identifier : Autoclear Rapid

**SDS code** : 046926

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

Identified uses

Industrial use

Uses advised against

Consumer use

Manufacturer :

**Supplier**: Akzo Nobel Coatings K.K.

8-7, 4-chome, Izumi, Kunitachi, Tokyo

186-0012, Japan TEL: +81-42-843-0081 FAX: +81-42-577-7444 www.sikkensvr.com

e-mail address of person responsible for this SDS

: PSRA\_SSH@akzonobel.com

# 2. Hazards identification

**GHS Classification** : FLAMMABLE LIQUIDS - Category 2

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITISATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) -

Category 3

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

**GHS** label elements

Hazard pictograms :





Signal word : Danger

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

Causes serious eye irritation.

Causes skin irritation.

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

Harmful to aquatic life with long lasting effects.

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# 2. Hazards identification

### **Precautionary statements**

**Prevention** 

: Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapour. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call

a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

: Store locked up. Storage

**Disposal** : Dispose of contents and container in accordance with all local, regional, national or

international regulations.

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

# 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number	CSCL	ISHL
n-butyl acetate	≥25 - ≤50	123-86-4	2-731	2-(6)-226
xylene	15	1330-20-7	(3)-3; (3)-60	(3)-3; (3)-60
pentan-2-one	≤5.0	107-87-9	(2)-542	(2)-542
ethylbenzene	3.6	100-41-4	3-28; 3-60	(3)-28; (3)-60
butanone	≤3.0	78-93-3	2-542	2-542
solvent naphtha (petroleum), light arom.	≤1.3	64742-95-6	(9)-1700	(9)-1700
Methacrylates	<1.0	-	Not available.	Not available.
5-methylhexan-2-one	<1.0	110-12-3	(2)-542	(2)-542
4-methylpentan-2-one	<1.0	108-10-1	2-542	2-542
toluene	0.39	108-88-3	3-2; 3-60	2-(8)-869
Reaction mass of bis(1,2,2,6,6-pentamethyl-	≤0.30	1065336-91-5	Not available.	Not available.
4-piperidyl) sebacate and methyl				
1,2,2,6,6-pentamethyl-4-piperidyl sebacate				
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-	≤0.30	104810-48-2	(7)-2290	Not available.
benzotriazol-2-yl)-5-(1,1-dimethylethyl)				
-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-				
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-	≤0.30	104810-47-1	(7)-2290	Not available.
benzotriazol-2-yl)-5-(1,1-dimethylethyl)				
-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-				
benzotriazol-2-yl)-5-(1,1-dimethylethyl)				
-4-hydroxyphenyl]-1-oxopropoxy]-				

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 and hence require reporting in this section.

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

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# 4. First aid measures

## **Description of necessary first aid measures**

**Eye contact**: 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. Get medical attention.

**Inhalation**: 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. Get medical attention. If necessary, call a poison center or physician. 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.

**Skin contact**: 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before

reuse. Clean shoes thoroughly before reuse.

**Ingestion**: 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. Get medical attention. If necessary, call a poison center or 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.

## Most important symptoms/effects, acute and delayed

#### Potential acute health effects

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

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

dizziness.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

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

Short term exposure

Potential delayed effects : Not available.

Over-exposure signs/symptoms

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

pain or irritation 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:

irritation redness

**Ingestion**: No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

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## 4. First aid measures

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.

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

### See toxicological information (Section 11)

# 5. Firefighting measures

### 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.

Specific hazards arising from the chemical

: Highly 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide

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

# 6. Accidental release measures

#### 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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".

**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). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and material for containment and cleaning up

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# 6. Accidental release measures

### 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 7. Handling and storage

#### 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 ingest. Avoid breathing vapour or mist. Avoid release to the environment. 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.

### **Conditions for safe storage**

: 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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

# 8. Exposure controls/personal protection

### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
n-butyl acetate	Japan Society for Occupational Health (Japan, 5/2018).
	OEL-M: 475 mg/m³ 8 hours. OEL-M: 100 ppm 8 hours. ISHL (Japan, 10/2019).
xylene	TWA: 150 ppm 8 hours.  ISHL (Japan, 10/2019).  TWA: 50 ppm 8 hours.

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ethylbenzene

butanone

# 8. Exposure controls/personal protection

(Japan, 5/2018).

OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m<sup>3</sup> 8 hours.

Japan Society for Occupational Health (Japan, 5/2018).

OEL-M: 217 mg/m³ 8 hours. OEL-M: 50 ppm 8 hours. ISHL (Japan, 10/2019). TWA: 20 ppm 8 hours.

Japan Society for Occupational Health

Japan Society for Occupational Health

(Japan, 5/2018).

OEL-M: 590 mg/m³ 8 hours. OEL-M: 200 ppm 8 hours. ISHL (Japan, 10/2019). TWA: 200 ppm 8 hours.

Japan Society for Occupational Health

(Japan, 5/2018).

OEL-M: 200 mg/m³ 8 hours. OEL-M: 50 ppm 8 hours. ISHL (Japan, 10/2019). TWA: 20 ppm 8 hours.

Japan Society for Occupational Health (Japan, 5/2018). Absorbed through skin.

OEL-M: 188 mg/m³ 8 hours. OEL-M: 50 ppm 8 hours. ISHL (Japan, 10/2019). TWA: 20 ppm 8 hours.

4-methylpentan-2-one

toluene

# 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.

# 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.

#### **Individual protection measures**

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.

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.

**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.

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# 8. Exposure controls/personal protection

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.

Skin protection

**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.

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.

# 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Colour : Not available.

Odour : Not available.

Odour threshold : Not available.

pH : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

: 80°C

Flash point : Closed cup: 16°C
Evaporation rate : Not available.
Flammability (solid, gas) : Not available.

Upper/lower flammability or

explosive limits

: Greatest known range: Lower: 1.8% Upper: 11.5% (butanone)

Vapour pressure : Not available.

Vapour density : Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.71

(Air = 1)

Relative density : 0.967

Solubility(ies) : Not available.

Partition coefficient: n-octanol/ : Not available.

water

: Not available.

**Decomposition temperature**: Not available.

Viscosity : Kinematic (room temperature): 0.75 cm<sup>2</sup>/s

# 10. Stability and reactivity

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

**Chemical stability**: The product is stable.

Possibility of hazardous

**Auto-ignition temperature** 

reactions

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

**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.

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# 10. Stability and reactivity

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

oxidising materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# 11. Toxicological information

## Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
	LC50 Inhalation Vapour	Mouse	6 g/m³	2 hours
	LC50 Inhalation Vapour	Rat	390 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
	LD50 Intraperitoneal	Mouse	1548 mg/kg	- 110010
	LD50 Intraperitoneal	Mouse	1548 mg/kg	_
	LD50 Intraperitoneal	Rat	2459 mg/kg	_
	LD50 Oral	Mouse	2119 mg/kg	_
		Rat		-
	LD50 Oral		4300 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
	LD50 Subcutaneous	Rat	1700 mg/kg	-
pentan-2-one	LC50 Inhalation Vapour	Mouse	22000 mg/m³	2 hours
	LD50 Dermal	Rabbit	6500 mg/kg	-
	LD50 Intraperitoneal	Mouse	1600 mg/kg	-
	LD50 Intraperitoneal	Rat	800 mg/kg	-
	LD50 Oral	Mouse	1600 mg/kg	-
	LD50 Oral	Rat	1600 mg/kg	-
ethylbenzene	LC50 Inhalation Gas.	Rabbit	4000 ppm	4 hours
-	LC50 Inhalation Vapour	Mouse	35500 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapour	Rat	55000 mg/m <sup>3</sup>	2 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Dermal	Rabbit	17800 uL/kg	-
	LD50 Intraperitoneal	Mouse	2624 uL/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	_
butanone	LC50 Inhalation Vapour	Mouse	32 g/m³	4 hours
batarione	LC50 Inhalation Vapour	Rat	23500 mg/m <sup>3</sup>	8 hours
	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Intraperitoneal	Guinea pig	2 g/kg	
	LD50 Intraperitoneal	Mouse		_
	<u> </u>		616 mg/kg	-
	LD50 Intraperitoneal	Rat	607 mg/kg	-
	LD50 Oral	Mouse	3000 mg/kg	-
0 - 1 1 1 - 11 ( 1	LD50 Oral	Rat	2737 mg/kg	-
Solvent naphtha (petroleum), light arom.	LD50 Oral	Rat	8400 mg/kg	-
5-methylhexan-2-one	LC50 Inhalation Gas.	Rat	3813 ppm	6 hours
	LC50 Inhalation Vapour	Rat	17806 mg/m³	6 hours
	LD50 Dermal	Rabbit	10 mL/kg	_
	LD50 Intraperitoneal	Mouse	800 mg/kg	_
	LD50 Oral	Mouse	2542 mg/kg	<u>-</u>

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# 11. Toxicological information

	LD50 Oral	Rat	3200 mg/kg	-
	LD50 Oral	Rat	5657 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat - Male,	11.6 mg/l	4 hours
	·	Female		
	LD50 Intraperitoneal	Guinea pig	800 mg/kg	-
	LD50 Intraperitoneal	Mouse	268 mg/kg	-
	LD50 Intraperitoneal	Rat	400 mg/kg	-
	LD50 Oral	Guinea pig	1600 mg/kg	-
	LD50 Oral	Mouse	1900 mg/kg	-
	LD50 Oral	Mouse	2850 mg/kg	-
	LD50 Oral	Rat	2080 mg/kg	-
	LD50 Oral	Rat	4600 mg/kg	-
toluene	LC50 Inhalation Gas.	Mouse	400 ppm	24 hours
	LC50 Inhalation Vapour	Mouse	30000 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapour	Mouse	19900 mg/m³	7 hours
	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	14100 uL/kg	-
	LD50 Intraperitoneal	Guinea pig	500 mg/kg	-
	LD50 Intraperitoneal	Mouse	59 mg/kg	-
	LD50 Intraperitoneal	Rat	1332 mg/kg	-
	LD50 Intravenous	Rat	1960 mg/kg	-
	LD50 Oral	Rat	636 mg/kg	-
	LD50 Route of exposure	Mouse	2 g/kg	-
	unreported			
	LD50 Route of exposure	Rat	6900 mg/kg	-
	unreported			
	LD50 Subcutaneous	Mouse	2250 mg/kg	-

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
,	Skin - Moderate irritant	Rabbit	_	24 hours 500	-
				mg	
xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
pentan-2-one	Skin - Mild irritant	Rabbit	-	405 mg	-
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
butanone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 402	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Solvent naphtha (petroleum),	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
light arom.				UI	
5-methylhexan-2-one	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
				UI	
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				UI	
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	[-	24 hours 500	-
				mg	
toluene	Eyes - Mild irritant	Rabbit	[-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	[-	870 ug	-

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T	Evo	s - Severe irritant	Rabbit		24 hours 2	
	⊏ye:	s - Severe irritarit	Nappli	-	24 110ui 5 Z	-
					mg	
	Skin	n - Mild irritant	Rabbit	-	435 mg	-
	Skin	ı - Moderate irritant	Rabbit		24 hours 20	_
	Sitting Sitting	Moderate irritarit	rabbit			
					mg	
	Skin	ı - Moderate irritant	Rabbit	-	500 mg	-

### **Sensitisation**

Not available.

### **Mutagenicity**

Not available.

# Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	Not applicable.	Narcotic effects
xylene	Category 3	Not applicable.	Respiratory tract irritation
butanone	Category 3	Not applicable.	Narcotic effects
Solvent naphtha (petroleum), light arom.	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
4-methylpentan-2-one	Category 3	Not applicable.	Respiratory tract irritation
toluene	Category 3	Not applicable.	Narcotic effects

## Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene	Category 2		hearing organs
toluene	Category 2		Not determined

## **Aspiration hazard**

Name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

**Information on likely routes**: Not available.

of exposure

## Potential acute health effects

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

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

dizziness.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.Ingestion : Can cause central nervous system (CNS) depression.

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# 11. Toxicological information

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

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

pain or irritation

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:

irritation redness

**Ingestion**: No specific data.

### 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.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

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.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	8332.8 mg/kg
Dermal	7200.5 mg/kg
Inhalation (vapours)	58.37 mg/l

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# 12. Ecological information

# **Toxicity**

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
xylene	Acute EC50 90 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute LC50 8.5 ppm Marine water	Crustaceans - Palaemonetes	48 hours
	Acute LC50 8500 μg/l Marine water	pugio - Adult Crustaceans - Palaemonetes	48 hours
	Acute LC50 15700 μg/l Fresh water	pugio Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 20870 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
			96 hours
	Acute LC50 19000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	
	Acute LC50 16940 µg/l Fresh water	Fish - Carassius auratus	96 hours
pentan-2-one	Acute LC50 1240000 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 4600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 5400 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 13.3 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2.97 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8.78 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute LC50 13.3 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute LC50 40000 µg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 18.4 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 13.9 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 75000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5100 µg/l Marine water	Fish - Menidia menidia	96 hours
	Acute LC50 9090 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 9100 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 4.3 ul/L Marine water	Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling,	96 hours
		Weanling)	
butanone	Acute EC50 >500000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 >500 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 5091000 μg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours

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# 12. Ecological information

	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 5600 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
5-methylhexan-2-one	Acute LC50 159000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
4-methylpentan-2-one	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 540000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 537000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
	ловко 2000 облово р.д., г. тол. тако.	Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas -	
	Chilonic NOEC 100 mg/l Flesh water		33 days
L. L	A t. FOFO 10500!! F!	Embryo	70.1
toluene	Acute EC50 12500 μg/l Fresh water	Algae - Pseudokirchneriella	72 hours
	<u></u>	subcapitata	1
	Acute EC50 16500 µg/l Fresh water	Crustaceans - Gammarus	48 hours
		pseudolimnaeus - Adult	
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus	48 hours
		pseudolimnaeus - Adult	
	Acute EC50 6.88 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute EC50 6.56 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	J. 1. 1. 1. 1. 3.	Neonate	
	Acute EC50 19600 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	7 todio 2000 10000 µg/11 10011 Water	Larvae	10 Hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	Acute 2000 0000 µg/11 resit water	Juvenile (Fledgling, Hatchling,	40 Hours
		Weanling)	
	Acute EC50 6790 ug/l Freeh weter	Fish - Oncorhynchus mykiss -	96 hours
	Acute EC50 6780 µg/l Fresh water		90 110015
		Juvenile (Fledgling, Hatchling,	
		Weanling)	40.1
	Acute LC50 15.5 ppm Marine water	Crustaceans - Palaemonetes	48 hours
		pugio - Adult	
	Acute LC50 15500 μg/l Marine water	Crustaceans - Palaemonetes	48 hours
		pugio	
	Acute LC50 56.3 ppm Marine water	Crustaceans - Americamysis	48 hours
		bahia	
	Acute LC50 86.3 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 5500 μg/l Fresh water	Fish - Oncorhynchus kisutch -	96 hours
	1 9	Fry	
	Acute LC50 6410 µg/l Marine water	Fish - Oncorhynchus gorbuscha	96 hours
	reate 2000 of 10 µg/1 marine water	- Fry	00110410
	Acute LC50 5800 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 3800 µg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours
	Acute LOJO 07 00 µg/1 Flesh water	Juvenile (Fledgling, Hatchling,	30 Hours
	Observation NOTO O servation of the servation	Weanling)	04 -1
	Chronic NOEC 2 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	+	•	•

# Persistence/degradability

Not available.

## **Bioaccumulative potential**

# 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
xylene	3.12	8.1 to 25.9	low
pentan-2-one	0.91	-	low
ethylbenzene	3.6	-	low
butanone	0.3	-	low
Solvent naphtha (petroleum),	-	10 to 2500	high
light arom.			
5-methylhexan-2-one	1.88	-	low
4-methylpentan-2-one	1.9	-	low
toluene	2.73	90	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** : Not available.

Hazardous to the ozone

layer

: Not applicable.

Other adverse effects : No known significant effects or critical hazards.

# 13. Disposal considerations

### **Disposal methods**

: 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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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# 14. Transport information

	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	No.	No.

#### **Additional information**

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# 14. Transport information

IMDG : Emergency schedules F-E, \_S-E\_

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.

Transport in bulk according : Not available.

to IMO instruments

# 15. Regulatory information

### **Fire Service Law**

Category	71	Danger category	•	Designated quantity
Category IV	Class I petroleums	II	Flammable - Keep Fire Away	200 L

Fire Service Law - : Not listed

**Obstructive materials** 

**Designated combustibles**: Not available. **Designated quantity**: Not available.

**Maritime Safety Law** 

## Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

#### **Container class**

None of the components are listed.

#### **ISHL**

# Ordinance on the prevention of the hazard due to specified chemical substances

Ingredient name	%	Status	Reference number
ethylbenzene	≤5.0	Group-2 Substances under Supervision	3-3

### Substances requiring labelling

Ingredient name	%	Status	Reference number
xylene	≥10 - ≤18	Listed	136
ethylbenzene	≤5.0	Listed	70
toluene	<1.0	Listed	407
n-butyl acetate	≥25 - ≤50	Listed	181
pentan-2-one	≤5.0	Listed	590
butanone	≤3.0	Listed	570
Solvent naphtha (petroleum), light arom.	≤1.3	Listed	330

## **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
xylene	≥10 - ≤18	Listed	136
ethylbenzene	≤5.0	Listed	70
toluene	<1.0	Listed	407
n-butyl acetate	≥25 - ≤50	Listed	181
pentan-2-one	≤5.0	Listed	590
4-methylpentan-2-one	<1.0	Listed	569
butanone	≤3.0	Listed	570
Solvent naphtha (petroleum), light arom.	≤1.3	Listed	330

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# 15. Regulatory information

#### **Carcinogen**

Ingredient name	%	Status	Reference number
4-methylpentan-2-one	<1.0	Listed	-

#### <u>Mutagen</u>

None of the components are listed.

Corrosive liquid : Not listed

ISHL Enforcement Order

Appendix 1 - Dangerous

**Substances** 

Lead regulation : Not listed

Prevention of Tetraalkyl : Not listed

Lead Poisoning

Harmful Substances Subject to Obtaining

Permission for

Manufacturing

Harmful Substances,

Prohibited for

: Not listed

: Not listed

: Flammable liquid Class 3

Manufacturing

**Dangerous Substances** : Inflammable

Organic solvents poisoning prevention

: Class 2

## **Chemical Substances Control Law (CSCL)**

Ingredient name	%	Status	Reference number
octamethylcyclotetrasiloxane	<0.010	Monitoring	40
xylene	≥10 - ≤18	Priority assessment	125
ethylbenzene	≤5.0	Priority assessment	50
toluene	<1.0	Priority assessment	46
4-methylpentan-2-one	<1.0	Priority assessment	116
butanone	≤3.0	Priority assessment	115
1,2,4-trimethylbenzene	<1.0	Priority assessment	49
cumene	≤0.10	Priority assessment	126

## **Poisonous and Deleterious Substances**

None of the components are listed.

### Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%		Reference number
xylene ethylbenzene	15	Class 1	80
	3.6	Class 1	53

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# 15. Regulatory information

JSOH Carcinogen : Group 2B

Law Concerning Prevention : Not available.

of Pollution of the Ocean and Maritime Disaster

Road law : Not available.

List of Specially Controlled : Not listed

**Industrial Waste** 

## 16. Other information

#### **History**

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#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITISATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) -	Calculation method
Category 3	
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method

#### ✓ Indicates information that has changed from previously issued version.

## Notice to reader

#### FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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