

# **SAFETY DATA SHEET**

FRS-40 SEMI-GLOSS BASE CHAMPAGNE F12/2/8475

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013

### **Section 1. Identification** GHS product identifier : FRS-40 SEMI-GLOSS BASE CHAMPAGNE F12/2/8475 SDS code : 40928475B Relevant identified uses of the substance or mixture and uses advised against Identified uses Paint. Professional use Industrial use Uses advised against All other uses Product use : Solvent borne coating for interior use. Supplier's details MAPAERO SAS 10, Avenue de la Rijole CS30098 09103 PAMIERS Cedex France e-mail address : PSRA PAMIERS@akzonobel.com Emergency telephone : +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30 number (with hours of

### Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Emergency overview
Liquid.
Gold.
Characteristic.
Flammable liquid and vapor. Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer.
IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. If eye irritation persists: Get medical advice or attention. See Section 12 for environmental precautions.

operation)



# Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3</li> </ul>
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	<ul> <li>H226 - Flammable liquid and vapor.</li> <li>H316 - Causes mild skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H351 - Suspected of causing cancer.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, sparks and hot surfaces. No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P242 - Use non-sparking tools.</li> <li>P243 - Take action to prevent static discharges.</li> <li>P261 - Avoid breathing vapor.</li> </ul>
Response	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	<ul> <li>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403 + P235 - Keep cool.</li> </ul>
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Physical and chemical hazards	: Flammable liquid and vapor.
Health hazards	: Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture



# Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
n-butyl acetate	≥25 - ≤50	123-86-4
2-methoxy-1-methylethyl acetate	≥10 - ≤25	108-65-6
xylene	<10	1330-20-7
2-ethoxy-1-methylethyl acetate	≤5	54839-24-6
ethyl acetate	≤5	141-78-6
4-methylpentan-2-one	≤3	108-10-1
ethylbenzene	≤3	100-41-4

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.

### Section 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. 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	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. 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 effe	ects				
Inhalation Skin contact	: Causes serious eye i	Causes serious eye irritation.			
	: Can cause central ne dizziness.	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.</li> <li>Causes mild skin irritation.</li> </ul>			
	: Causes mild skin irrit				
	: Can cause central ne	: Can cause central nervous system (CNS) depression.			
Over-exposure signs/symptoms					
Eye contact	: Adverse symptoms n pain or irritation watering redness	watering			
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# Section 4. First aid measures

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 med	dical attention and special treatment needed, if necessary
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.
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.

See toxicological information (Section 11)

## Section 5. Fire-fighting 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	: Flammable liquid and vapor. 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 thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# Section 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor 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 specialized 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 spilled 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).		
Methods and materials for co	ntainment 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 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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, 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. Store locked up. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.



# Section 8. Exposure controls/personal protection

### Control parameters

### **Occupational exposure limits**

Ingredient name	Exposure limits
n-butyl acetate	GBZ 2.1 (China, 8/2019).
	PC-STEL: 300 mg/m <sup>3</sup> 15 minutes.
	PC-TWA: 200 mg/m <sup>3</sup> 8 hours.
xylene	GBZ 2.1 (China, 8/2019).
	PC-STEL: 100 mg/m <sup>3</sup> 15 minutes.
	PC-TWA: 50 mg/m <sup>3</sup> 8 hours.
ethyl acetate	GBZ 2.1 (China, 8/2019).
	PC-STEL: 300 mg/m <sup>3</sup> 15 minutes.
	PC-TWA: 200 mg/m <sup>3</sup> 8 hours.
4-methylpentan-2-one	ACGIH TLV (United States, 3/2020).
	Notes: Substances for which there is a
	Biological Exposure Index or Indices
	STEL: 75 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
ethylbenzene	GBZ 2.1 (China, 8/2019).
	PC-STEL: 150 mg/m <sup>3</sup> 15 minutes.
	PC-TWA: 100 mg/m <sup>3</sup> 8 hours.

Appropriate engineering controls	:	ventilation or other enginee contaminants below any red	tilation. Use process enclosure ring controls to keep worker exp commended or statutory limits. or or dust concentrations below ventilation equipment.	osure to airborne The engineering controls
Environmental exposure controls	:	they comply with the require cases, fume scrubbers, filter	or work process equipment shou ements of environmental protect ers or engineering modifications y to reduce emissions to accept	ion legislation. In some to the process
Individual protection measu	<u>res</u>			
Hygiene measures	:	eating, smoking and using t Appropriate techniques sho	face thoroughly after handling of the lavatory and at the end of the uld be used to remove potential g before reusing. Ensure that e the workstation location.	e working period. ly contaminated clothing.
Eye/face protection	:	assessment indicates this is gases or dusts. If contact is	with an approved standard shou s necessary to avoid exposure to s possible, the following protecti cates a higher degree of protect	o liquid splashes, mists, on should be worn,
Skin protection				
Hand protection	:	be worn at all times when h this is necessary. Consider check during use that the g should be noted that the tim different for different glove	ous gloves complying with an ap andling chemical products if a ri ing the parameters specified by loves are still retaining their prot ne to breakthrough for any glove manufacturers. In the case of m tection time of the gloves canno	sk assessment indicates the glove manufacturer, ective properties. It material may be nixtures, consisting of
Body protection	:	being performed and the ris before handling this produc wear anti-static protective c	ent for the body should be select ks involved and should be appro- t. When there is a risk of ignitio lothing. For the greatest protect include anti-static overalls, boot	oved by a specialist n from static electricity, tion from static
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# Section 8. Exposure controls/personal protection

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.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Gold.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: 28°C
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 2.2% Upper: 11.5% (ethyl acetate)
Vapor pressure	: Not available.
Vapor density	: Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.8 (Air = 1)
Relative density	: Not available.
Solubility(ies)	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (room temperature): 10.21 cm <sup>2</sup> /s Kinematic (40°C): 1.01 cm <sup>2</sup> /s

# Section 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 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 pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials

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# Section 10. Stability and reactivity

Hazardous decomposition<br/>products: Under normal conditions of storage and use, hazardous decomposition products

# Section 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 Vapor	Mouse	6 g/m³	2 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	6700 ppm	4 hours
	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
	LD50 Intraperitoneal	Mouse	1548 mg/kg	-
	LD50 Intraperitoneal	Mouse	1548 mg/kg	-
	LD50 Intraperitoneal	Rat	2459 mg/kg	-
	LD50 Oral	Mouse	2119 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	_
	LD50 Oral	Rat	4300 mg/kg	_
	LD50 Subcutaneous	Rat	1700 mg/kg	_
ethyl acetate	LC50 Inhalation Gas.	Rat	1600 ppm	8 hours
	LC50 Inhalation Vapor	Mouse	45 g/m <sup>3</sup>	2 hours
	LD50 Intraperitoneal	Mouse	709 mg/kg	2 110013
	LD50 Oral	Guinea pig	5.5 g/kg	-
	LD50 Oral	Guinea pig	5500 mg/kg	-
	LD50 Oral	Mouse	4.1 g/kg	-
	LD50 Oral	Mouse	4100 mg/kg	-
	LD50 Oral	Rabbit		-
			4935 mg/kg	-
	LD50 Oral	Rat	5620 mg/kg	-
4 methodocoten 2 ene	LD50 Subcutaneous	Guinea pig	3 g/kg	-
4-methylpentan-2-one	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	-
ethylbenzene	LC50 Inhalation Gas.	Rabbit	4000 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	35500 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapor	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	-

Irritation/Corrosion



# Section 11. Toxicological information

	-				
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 %	-
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	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	

### **Sensitization**

Not available.

### <u>Mutagenicity</u>

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	-	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
2-ethoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
ethyl acetate	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

### Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

# Information on the likely routes of exposure

: Not available.

# Section 11. Toxicological information

Section 11. Toxic	Diogical mormation
Potential acute health effect	<u>S</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes mild skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Symptoms related to the ph	vsical, 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 effe	cts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	

Potential delayed effects : Not available. Potential chronic health effects				
Not available.				
General	: No known significant effects or critical hazards.			
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.			
Mutagenicity	: No known significant effects or critical hazards.			
Reproductive toxicity	: No known significant effects or critical hazards.			

# Section 12. Ecological information

<u>Toxicity</u>

**Potential immediate** 

effects

: Not available.



# Section 12. Ecological information

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	48 hours
		subglobosa	
	Acute LC50 8.5 ppm Marine water	Crustaceans - Palaemonetes	48 hours
		pugio - Adult	
	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
		pugio	
	Acute LC50 15700 µg/l Fresh water	Fish - Lepomis macrochirus -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 20870 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 19000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 16940 µg/l Fresh water	Fish - Carassius auratus	96 hours
ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
-	Acute LC50 1600000 µg/l Fresh water	Crustaceans - Asellus aquaticus	48 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 175000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 560000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 230000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 295000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 230000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Acute LC50 484000 µg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours
	10	Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 425300 µg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours
	1.0	Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 12 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - Pimephales promelas -	32 days
		Embryo	0_ 00,70
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
		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 -	33 days
		Embryo	oo aayo
ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	70.1
			12 hours
ouryisonzono			72 hours 96 hours
	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
		Algae - Skeletonema costatum Algae - Pseudokirchneriella	
	Acute EC50 7700 µg/l Marine water Acute EC50 4600 µg/l Fresh water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata	96 hours 72 hours
	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella	96 hours
	Acute EC50 7700 μg/l Marine water Acute EC50 4600 μg/l Fresh water Acute EC50 5400 μg/l Fresh water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata	96 hours 72 hours 72 hours
	Acute EC50 7700 µg/l Marine water Acute EC50 4600 µg/l Fresh water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella	96 hours 72 hours
	Acute EC50 7700 μg/l Marine water Acute EC50 4600 μg/l Fresh water Acute EC50 5400 μg/l Fresh water Acute EC50 3600 μg/l Fresh water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata	96 hours 72 hours 72 hours 96 hours
	Acute EC50 7700 μg/l Marine water Acute EC50 4600 μg/l Fresh water Acute EC50 5400 μg/l Fresh water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Crustaceans - Artemia sp	96 hours 72 hours 72 hours
	Acute EC50 7700 µg/l Marine water Acute EC50 4600 µg/l Fresh water Acute EC50 5400 µg/l Fresh water Acute EC50 3600 µg/l Fresh water Acute EC50 6.53 mg/l Marine water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Crustaceans - Artemia sp Nauplii	96 hours 72 hours 72 hours 96 hours 48 hours
	Acute EC50 7700 μg/l Marine water Acute EC50 4600 μg/l Fresh water Acute EC50 5400 μg/l Fresh water Acute EC50 3600 μg/l Fresh water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Crustaceans - Artemia sp Nauplii Crustaceans - Artemia sp	96 hours 72 hours 72 hours 96 hours
	Acute EC50 7700 µg/l Marine water Acute EC50 4600 µg/l Fresh water Acute EC50 5400 µg/l Fresh water Acute EC50 3600 µg/l Fresh water Acute EC50 6.53 mg/l Marine water Acute EC50 13.3 mg/l Marine water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Crustaceans - Artemia sp Nauplii Crustaceans - Artemia sp Nauplii	96 hours 72 hours 72 hours 96 hours 48 hours 48 hours
	Acute EC50 7700 µg/l Marine water Acute EC50 4600 µg/l Fresh water Acute EC50 5400 µg/l Fresh water Acute EC50 3600 µg/l Fresh water Acute EC50 6.53 mg/l Marine water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Crustaceans - Artemia sp Nauplii Crustaceans - Artemia sp Nauplii Daphnia - Daphnia magna -	96 hours 72 hours 72 hours 96 hours 48 hours
	Acute EC50 7700 µg/l Marine water Acute EC50 4600 µg/l Fresh water Acute EC50 5400 µg/l Fresh water Acute EC50 3600 µg/l Fresh water Acute EC50 6.53 mg/l Marine water Acute EC50 13.3 mg/l Marine water Acute EC50 2.97 mg/l Fresh water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Crustaceans - Artemia sp Nauplii Crustaceans - Artemia sp Nauplii Daphnia - Daphnia magna - Neonate	96 hours 72 hours 72 hours 96 hours 48 hours 48 hours 48 hours
	Acute EC50 7700 µg/l Marine water Acute EC50 4600 µg/l Fresh water Acute EC50 5400 µg/l Fresh water Acute EC50 3600 µg/l Fresh water Acute EC50 6.53 mg/l Marine water Acute EC50 13.3 mg/l Marine water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Crustaceans - Artemia sp Nauplii Crustaceans - Artemia sp Nauplii Daphnia - Daphnia magna -	96 hours 72 hours 72 hours 96 hours 48 hours 48 hours
Date of issue/Date of revision	Acute EC50 7700 µg/l Marine water Acute EC50 4600 µg/l Fresh water Acute EC50 5400 µg/l Fresh water Acute EC50 3600 µg/l Fresh water Acute EC50 6.53 mg/l Marine water Acute EC50 13.3 mg/l Marine water Acute EC50 2.97 mg/l Fresh water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Crustaceans - Artemia sp Nauplii Crustaceans - Artemia sp Nauplii Daphnia - Daphnia magna - Neonate	96 hours 72 hours 72 hours 96 hours 48 hours 48 hours 48 hours

# Section 12. Ecological information

	Neonate	
Acute LC50 8.78 mg/l Marine water	Crustaceans - Artemia sp	48 hours
	Nauplii	
Acute LC50 13.3 mg/l Marine water	Crustaceans - Artemia sp	48 hours
	Nauplii	
Acute LC50 40000 µg/l Marine water	Crustaceans - Cancer magister -	48 hours
	Zoea	
Acute LC50 18.4 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	Neonate	
Acute LC50 13.9 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	Neonate	
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 -	96 hours
	Juvenile (Fledgling, Hatchling,	
	Weanling)	
	weaning)	

### Persistence/degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
2-methoxy-1-methylethyl acetate	1.2	-	low
xylene	3.12	8.1 to 25.9	low
2-ethoxy-1-methylethyl acetate	0.76	-	low
ethyl acetate	0.68	30	low
4-methylpentan-2-one ethylbenzene	1.9 3.6	-	low low

### Mobility in soil

Date of previous issue

Soil/water partition	: Not available.
coefficient (Koc)	

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

## Section 13. Disposal considerations

Disposal methods	: The generation of waste shou Disposal of this product, solut with the requirements of envir and any regional local authori recyclable products via a licer disposed of untreated to the s all authorities with jurisdiction. landfill should only be conside its container must be dispose handling emptied containers t containers or liners may retair may create a highly flammabl not cut, weld or grind used co internally. Avoid dispersal of s waterways, drains and sewers	ions and any by-products sho onmental protection and wast ty requirements. Dispose of s used waste disposal contracto wer unless fully compliant w . Waste packaging should be ered when recycling is not fease d of in a safe way. Care shou hat have not been cleaned or n some product residues. Vag e or explosive atmosphere ins ntainers unless they have bee spilled material and runoff and	uld at all times comply te disposal legislation surplus and non- r. Waste should not be ith the requirements of recycled. Incineration or sible. This material and Id be taken when rinsed out. Empty por from product residues side the container. Do en cleaned thoroughly
Date of issue/Date of revision	: 1-10-2022	Version : 1	
Date of previous issue	: No previous validation	12/15	AkzoNobel

: No previous validation

12/15

# Section 14. Transport information

			China	IMDG		ΙΑΤΑ
UN number	UN1263			UN1263	UN	11263
UN proper shipping name	PAINT			PAINT	PA	INT
Transport hazard class(es)	3			3	3	
Packing group				111		
Environmental hazards	No.			No.	No	
Additional informat	tion					
China		:				not subject to regulation in
				50 L according to 2.3.2.	5.	
IMDG		:				not subject to regulation in
Special precautions	for user	:		Ensure that persons tr		closed containers that are product know what to do ir
Extinguishing medi	<u>a</u>					
Suitable extinguis media	hing	:	Use dry chemical, (	CO <sub>2</sub> , water spray (fog) o	or foam.	
Unsuitable extingu media	lishing	:	Do not use water je	.t.		
Incompatible mater	ials	:	Reactive or incomp oxidizing materials	atible with the following	materials:	
Transport in bulk action to IMO instruments	cording	:	Not available.			

to IMO instruments

### Section 15. Regulatory information

### China inventory (IECSC) : Not determined.

### List of Goods banned for Importing

None of the components are listed.

### List of Goods banned for Exporting

None of the components are listed.

### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

### **Inventory of Highly Toxic Articles**

None of the components are listed.

### Catalogue of Hazardous Chemicals of Priority Management

toluene ethyl acetate

#### Listed Listed

### Catalogue of Occupational Disease Hazard Factors - Dust

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# Section 15. Regulatory information

### Ingredient name

Aluminium powder (stabilized)

### Catalogue of Occupational Disease Hazard Factors - Chemical Factors

Status
Listed
Listed
Listed
Listed

Status

Listed

### Section 16. Other information

<u>History</u>	
Date of printing	: 6 October 2022
Date of issue/ Date of revision	: 1 October 2022
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Version	: 1
Unique ID	:
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
SKIN CORROSION/IRRITATION - Category 3	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - 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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FRS-40 SEMI-GLOSS BASE CHAMPAGNE F12/2/8475

# Section 16. Other information

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