

SAFETY DATA SHEET

FRS-40 SEMI-GLOSS BASE GREY FS 26118

In accordance with the Standard for Classification and Labeling of Chemical Substance and Safety Data Sheet, Article 10 Paragraph 1

Section 1. Chemic	cal product and company identification
A. Product name	: FRS-40 SEMI-GLOSS BASE GREY FS 26118
SDS code	: 409Z6118B
B. <u>Relevant identified uses</u>	of the substance or mixture and uses advised against
	Identified uses
Paint. Professional use Indus	trial use
	Uses advised against
All other uses	
Product use	: Solvent borne coating for interior use.
C. Supplier's details	
MAPAERO SAS 10, Avenue de la Rij 09103 PAMIERS Ce France	
e-mail address of person responsible for this SDS	: PSRA_PAMIERS@akzonobel.com
Emergency telephone number (with hours of operation)	: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30

Section 2. Hazards identification

A. Hazard classification	 FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

B. GHS label elements, including precautionary statements



Signal word

Symbol

: Warning

Date of issue/Date of revision
Date of previous issue



Section 2. Hazards identification

Hazard statements	: H226 - Flammable liquid and vapor.
	H336 - May cause drowsiness or dizziness.
	H351 - Suspected of causing cancer.
	H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary stateme	ents
Prevention	 P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, sparks and hot surfaces. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P260 - Do not breathe vapor.
Response	: P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which d not result in classification	lo : None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	Identifiers	%
-butyl acetate	CAS: 123-86-4	≥20 - <25
titanium dioxide	CAS: 13463-67-7	≥10 - <15
Reaction mass of ethylbenzene and xylene	-	≥10 - <15
xylene	CAS: 1330-20-7	≥5 - <10
2-methoxy-1-methylethyl acetate	CAS: 108-65-6	<10
ethylbenzene	CAS: 100-41-4	≥0.1 - <5
carbon black, respirable powder	CAS: 1333-86-4	<10
silicon dioxide	CAS: 7631-86-9	<10
Talc , not containing asbestiform fibres	CAS: 14807-96-6	<10
cyclohexanone	CAS: 108-94-1	≥0.1 - <5
Distillates (petroleum), hydrotreated light	CAS: 64742-47-8	<10
toluene	CAS: 108-88-3	<0.3

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

Α.	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.
В.	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.



Section 4. First aid measures

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C.	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.
D.	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.
Е.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	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

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Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	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 halogenated compounds metal oxide/oxides
C.	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.
	Special precautions 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.



Section 6. Accidental release measures

Α.	Personal precautions, protective equipment and emergency procedures	:	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.
В.	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).
C.	Methods and materials fo	or c	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 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

A. 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 breathe vapor 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.
в.	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

A. <u>Control parameters</u>

Occupational exposure limits

Ingredient name	Exposure limits
🗝-butyl acetate	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m ³ 8 hours. Form: total dust
	with less than 1% of free SiO2
Reaction mass of ethylbenzene and xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
carbon black, respirable powder	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 3.5 mg/m ³ 8 hours. Form: inhalable
	fraction
cyclohexanone	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed through skin.
	TWA: 25 ppm 8 hours.
	STEL: 50 ppm 15 minutes.
Distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 3/2020).
Distillates (petroleum), mydrotreated light	Absorbed through skin.
	TWA: 200 mg/m ³ , (as total hydrocarbon
	vapor) 8 hours.
toluene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.

B. 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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
 : Environmental
 : Emissions from ventilation or work process equipment should be checked to ensure

exposure controls 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.

C. Personal protective equipment

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.

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Date of previous issue	: 1-10-2022	5/16	AkzoNobel

Section 8. Exposure controls/personal protection

Eye 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: safety glasses with side-shields.
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.
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.

Section 9. Physical and chemical properties

	<u> </u>				
Α.	<u>Appearance</u>				
	Physical state	:	Liquid.		
	Color	:	Gray.		
В.	Odor	:	Characteristic.		
C.	Odor threshold	:	Not available.		
D.	рН	:	Not available.		
Ε.	Melting/freezing point	:	Not available.		
F.	Boiling point/boiling range	:	Not available.		
G.	Flash point	:	Closed cup: 28°C (82.4°	'F)	
	Fire point	:	Not available.		
Н.	Evaporation rate	:	Not available.		
I.	Flammability (solid, gas)	:	Not available.		
J.	Lower and upper explosive (flammable) limits	:	Greatest known range: I	_ower: 1.4% Upper: 7.6% (n-butyl aceta	te)
Κ.	Vapor pressure	:	Not available.		
L.	Solubility	:	Insoluble in the following	g materials: cold water.	
	Solubility in water	:	Not available.		
М.	Vapor density	:	Highest known value: 4. average: 4.02 (Air = 1)	6 (Air = 1) (2-methoxy-1-methylethyl ac	etate). Weighted
N.	Density	:	1.311 g/cm³		
0.	Partition coefficient: n- octanol/water	:	Not available.		
Ρ.	Auto-ignition temperature	:	Not available.		
Q.	Decomposition temperature	:	Not available.		
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Section 9. Physical and chemical properties

R. Viscosity	: Kinematic (room temperature): 8.39 cm²/s (839 cSt) Kinematic (40°C (104°F)): 1.01 cm²/s (101 cSt)
Flow time (ISO 2431)	: Not available.
S. Molecular weight	: Not applicable.

S	Section 10. Stability and reactivity						
Α.	Chemical stability	:	The product is stable.				
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.				
В.	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.				
C.	Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials				
D.	Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.				

Section 11. Toxicological information

Α.	Information on the likely	:	Not available.
	routes of exposure		

Potential acute health effects

or

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	6 g/m ³	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	-
of issue/Date of revision	: 2-11-2022	Version	: 1.01	
of previous issue	: 1-10-2022	7/16		AkzoNobel

Section 11. Toxicological information

Reaction mass of ethylbenzene and xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
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
				4 110015
	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	-
ethylbenzene	LC50 Inhalation Gas.	Rabbit	4000 ppm	4 hours
,	LC50 Inhalation Vapor	Mouse	35500 mg/m ³	2 hours
	LC50 Inhalation Vapor	Rat	55000 mg/m ³	2 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Dermal	Rabbit	17800 uL/kg	
		Mouse	2624 uL/kg	-
	LD50 Intraperitoneal			-
	LD50 Oral	Rat	3500 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
carbon black, respirable powder	LD50 Oral	Rat	>15400 mg/kg	-
, cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
eyelenexamene	LD50 Dermal	Rabbit	1 mL/kg	-
	LD50 Intraperitoneal	Guinea pig	930 mg/kg	_
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
				-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Oral	Mouse	1400 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
	LD50 Oral	Rat	1620 uĽ/kg	-
	LD50 Subcutaneous	Rat	2170 mg/kg	
toluene	LC50 Inhalation Gas.	Mouse	400 ppm	24 hours
	LC50 Inhalation Vapor	Mouse	30000 mg/m ³	2 hours
	•	Mouse	19900 mg/m ³	7 hours
	LC50 Inhalation Vapor			
	LC50 Inhalation Vapor	Rat	49 g/m ³	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		- 9' ''B	
	LD50 Route of exposure	Rat	6000 malka	
		Παι	6900 mg/kg	-
		Maure	0050 ms = //	
	LD50 Subcutaneous	Mouse	2250 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
p -butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours	-
				500 mg	
Reaction mass of ethylbenzene and 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	-
of issue/Date of revision	: 2-11-2022		Version : 1.01		
of previous issue	: 1-10-2022		8/16		AkzoNobe

Section 11. Toxicological information

			-	-	
				500 mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
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 %	-
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
silicon dioxide	Eyes - Mild irritant	Rabbit	-	24 hours 25	-
				mg	
cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hours	-
				250 ug	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-

Sensitization

Not available.

CMR - ISHA Article 42 Occupational Exposure Limits

Product/ingredient name	Identifiers	Classification
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
ethylbenzene	CAS: 100-41-4	CARCINOGENICITY - Category 2
carbon black, respirable powder	CAS: 1333-86-4	CARCINOGENICITY - Category 2
cyclohexanone	CAS: 108-94-1	CARCINOGENICITY - Category 2
toluene	CAS: 108-88-3	TOXIC TO REPRODUCTION -
		Category 2

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP		ACGIH
titanium dioxide	-	2B	-		A4
Reaction mass of	-	3	-		A4
ethylbenzene and xylene					
xylene	-	3	-		A4
ethylbenzene	-	2B	-		A3
carbon black, respirable	-	2B	-		A3
powder					
silicon dioxide	-	3	-		-
Talc , not containing	-	3	-		A4
asbestiform fibres					
cyclohexanone	-	3	-		A3
Distillates (petroleum),	-	-	-		A3
hydrotreated light					
of issue/Date of revision	: 2-11-20	22		Version : 1.01	
of previous issue	: 1-10-20	22		9/16	AkzoNob

Section 11. Toxicological information

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toluene

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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
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Narcotic effects
2-methoxy-1-methylethyl acetate toluene	Category 3 Category 3		Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 2	-	-
xylene	Category 1	-	-
ethylbenzene	Category 2	-	hearing organs
toluene	Category 2	-	-

Aspiration hazard

Name	Result
ethylbenzene Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Potential chronic health effects

Chronic toxicity

Not available.

General Carcinogenicity	 May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity Reproductive toxicity	 No known significant effects or critical hazards. No known significant effects or critical hazards.

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
p -butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	a 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
titanium dioxide	Acute EC50 19.3 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 27.8 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 35.306 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
of issue/Date of revision	: 2-11-2022	Version : 1.01	
of previous issue	: 1-10-2022	10/16	AkzoNobe

Section 12. Ecological information

		I FISH - WORDE SAXAUIS -	
	Acute LC50 4200 µg/l Fresh wat Acute LC50 4.3 ul/L Marine wate		96 hours 96 hours
	Acute LC50 9100 µg/l Fresh wat		96 hours
	Acute LC50 9090 µg/l Fresh wat	er Fish - Pimephales promelas	96 hours
	Acute LC50 5100 µg/l Marine wa	ter Fish - Menidia menidia	96 hours
	Acute LC50 75000 µg/l Fresh wa		48 hours
	Acute LC50 13.9 mg/l Fresh wat	er Daphnia - Daphnia magna - Neonate	48 hours
		Neonate	
	Acute LC50 18.4 mg/l Fresh wat	- Zoea	48 hours
	Acute LC50 40000 µg/l Marine w	Nauplii ater Crustaceans - Cancer magiste	r 48 hours
	Acute LC50 13.3 mg/l Marine wa	ter Crustaceans - Artemia sp	48 hours
	Acute LC50 8.78 mg/l Marine wa	ter Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh wat	Neonate	48 hours
		Neonate	
	Acute EC50 2.97 mg/l Fresh wat	Nauplii	48 hours
	Acute EC50 13.3 mg/l Marine wa	Nauplii	48 hours
	Acute EC50 6.53 mg/l Marine wa	subcapitata ter Crustaceans - Artemia sp	48 hours
	Acute EC50 3600 µg/l Fresh wat		96 hours
	Acute EC50 5400 µg/l Fresh wat		72 hours
	Acute EC50 4600 µg/l Fresh wat	er Algae - Pseudokirchneriella	72 hours
	Acute EC50 7700 μ g/l Marine wa		
ethylbenzene	Acute EC50 4900 μ g/l Marine wa		
	Acute LC50 16940 µg/l Fresh wa		96 hour
	Acute LC50 13400 µg/l Fresh wa		96 hours
	Acute LC50 20070 µg/l Fresh wa		96 hours
	Acute LC50 20870 µg/l Fresh wa	Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 15700 µg/l Fresh wa	pugio Iter Fish - Lepomis macrochirus -	96 hours
	Acute LC50 8500 µg/l Marine wa		48 hours
	Acute LC50 8.5 ppm Marine wat	subglobosa	48 hours
ethylbenzene and xylene xylene	Acute EC50 90 mg/l Fresh water	Crustaceans - Cypris	48 hours
Reaction mass of	water Acute LC50 13400 µg/l Fresh wa	ter Fish - Pimephales promelas	96 hours
	Acute LC50 >1000 mg/l Fresh w Acute LC50 >1000000 µg/l Marin		96 hours 96 hours
	Acute LC50 13 mg/l Fresh water	Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh wate	r Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 15.9 mg/l Fresh wat	er Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 3.6 mg/l Fresh wate	r Crustaceans - Ceriodaphnia dubia - Neonate	48 hour
	Acute LC50 11 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
		dubia - Neonate	

Section 12. Ecological information

carbon black, respirable powderAcute EC50 37.563 mg/l Fresh waterJuvenile (Fledgling, Hatchling, Weanling) Daphnia - Daphnia magna - NeonatecyclohexanoneAcute LC50 61.547 mg/l Fresh waterDaphnia - Daphnia magna - NeonatecyclohexanoneAcute EC50 32.9 mg/l Fresh waterAlgae - Chlamydomonas reinhardtii - Exponential growth phaseAcute LC50 630000 μg/l Fresh waterFish - Pimephales promelas	48 hours 48 hours 72 hours 96 hours 96 hours
carbon black, respirable powderAcute EC50 37.563 mg/l Fresh water Acute LC50 61.547 mg/l Fresh waterDaphnia - Daphnia magna - NeonatecyclohexanoneAcute EC50 32.9 mg/l Fresh water Acute EC50 32.9 mg/l Fresh waterDaphnia - Daphnia magna - Neonate	48 hours 72 hours 96 hours
Acute LC50 61.547 mg/l Fresh waterDaphnia - Daphnia magna - NeonatecyclohexanoneAcute EC50 32.9 mg/l Fresh waterAlgae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours 96 hours
cyclohexanone Acute EC50 32.9 mg/l Fresh water Algae - Chlamydomonas reinhardtii - Exponential growth phase	96 hours
reinhardtii - Exponential growth phase	96 hours
	96 hours
Acute LC50 527000 µg/l Fresh water Fish - Pimephales promelas	
Acute LC50 732000 μg/l Fresh water Fish - Pimephales promelas	96 hours
Distillates (petroleum),Acute LC50 5900 μg/l Fresh waterFish - Lepomis macrochirushydrotreated lightFish - Lepomis macrochirus	4 days
Acute LC50 2200 µg/l Fresh water Fish - Lepomis macrochirus	4 days
Acute LC50 2400 µg/l Fresh water Fish - Oncorhynchus mykiss	4 days
Acute LC50 2600 µg/l Fresh water Fish - Oncorhynchus mykiss Acute LC50 2900 µg/l Fresh water Fish - Oncorhynchus mykiss	4 days 96 hours
toluene Acute EC50 2900 µg/l Fresh water Algae - Pseudokirchneriella	72 hours
subcapitata	
Acute EC50 16500 μg/l Fresh water Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
Acute EC50 11600 µg/l Fresh water Crustaceans - Gammarus	48 hours
pseudolimnaeus - Adult	
Acute EC50 6.88 mg/l Fresh water Daphnia - Daphnia magna - Neonate	48 hours
Acute EC50 6.56 mg/l Fresh water Daphnia - Daphnia magna - Neonate	48 hours
Acute EC50 19600 µg/l Fresh water Daphnia - Daphnia magna - Larvae	48 hours
Acute EC50 6000 µg/l Fresh water Juvenile (Fledgling, Hatchling, Weanling)	48 hours
Acute EC50 6780 µg/l Fresh water Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Acute LC50 15.5 ppm Marine water Crustaceans - Palaemonetes pugio - Adult	48 hours
Acute LC50 15500 µg/l Marine water Crustaceans - Palaemonetes pugio	48 hours
Acute LC50 56.3 ppm Marine water Crustaceans - Americamysis bahia	48 hours
Acute LC50 86.3 mg/l Fresh water Daphnia - Daphnia magna - Neonate	48 hours
Acute LC50 5500 µg/l Fresh water Fish - Oncorhynchus kisutch - Fry	96 hours
Acute LC50 6410 µg/l Marine water Fish - Oncorhynchus gorbuscha - Fry	96 hours
Acute LC50 5800 µg/l Fresh water Fish - Oncorhynchus mykiss	96 hours
Acute LC50 6780 µg/l Fresh water Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Chronic NOEC 2 mg/l Fresh water Daphnia - Daphnia magna	21 days
Chronic NOEC 1000 µg/l Fresh water Daphnia - Daphnia magna	21 days

B. Persistence and degradability

Not available.

C. Bioaccumulative potential



Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
p -butyl acetate	2.3	-	low
Reaction mass of ethylbenzene and xylene	3.12	8.1 to 25.9	low
xylene	3.12	8.1 to 25.9	low
2-methoxy-1-methylethyl acetate	1.2	-	low
ethylbenzene	3.6	-	low
cyclohexanone	0.86	-	low
toluene	2.73	90	low

D. Mobility in soil

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

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

Section 13. Disposal considerations

- A. Disposal methods : The generation of waste should be avoided or minimized 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.
- B. Disposal 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
A. UN number	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	III	111	Ш
E. Environmental hazards	No.	No.	No.
Additional information	<u>on</u>		
UN		ception This class 3 viscous liqui 50 L according to 2.3.2.5.1.	d is not subject to regulation in
IMDG	: <u>Emergency sched</u>	<u>ules</u> F-E, _S-E_	
Date of issue/Date of revis	ion : 2-11-2022	Version : 1.0	
Date of previous issue	: 1-10-2022	13/16	AkzoNobel

Section 14. Transport information

Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

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

Transport in bulk according : Not available. to IMO instruments

Date of previous issue

:1-10-2022

Section 15. Regulatory information

A. Regulation accor	rding to IS	<u>SHA</u>			
ISHA article 117 (Harmful substa prohibited from manufacture)	ances	: None of the cor	nponents are listed.		
ISHA article 118 (Harmful substa requiring permi	ances	: None of the cor	nponents are listed.		
Article 2 of Youth Protection Act or Substances Haza to Youth	n	: Not applicable.			
Exposure Limits	of Chemi	<u>cal Substances a</u>	nd Physical Factor	<u>s</u>	
The following con -butyl acetate titanium dioxide Reaction mass of xylene ethylbenzene carbon black, res cyclohexanone Distillates (petrol toluene	of ethylben spirable po	zene and xylene owder			
ISHA Enforceme Annex 19 (Expos standards establ for harmful facto	ure lished	: The following c	omponents are listed	d: toluene, cyclohexanor	ne
ISHA Enforcemer Annex 21 (Harmf factors subject to Environment Measurement)	ul	: The following car isomers, talc; s		d: n-butyl acetate, titaniu	m dioxide, Xylene, o,m,p-
ISHA Enforceme Annex 22 (Harmf Factors Subject t Special Health C up)	ul to	: The following c	omponents are listed	1: Xylene	
Standard of Indu Safety and Healtl Annex 12 (Hazard substances subj control)	h dous	: Phe following c	omponents are listed	d: n-butyl acetate, titaniu	m dioxide, Xylene
B. Regulation accor	rding to C	hemicals Control	Act		
CCA Article 11 ((TRI)	: The following c	omponents are listed	d: Xylene	
Date of issue/Date of revis	sion	: 2-11-2022		Version : 1.01	

14/16

AkzoNobe

Section 15. Regulatory information

CCA Article 18 Prohibited (K-Reach Article 27)	: None of the components are listed.
CCA Article 19 Subject to authorization (K- Reach Article 25)	: None of the components are listed.
CCA Article 20 Toxic Chemicals (K-Reach Article 20)	: Not applicable
CCA Article 20 Restricted (K-Reach Article 27)	: None of the components are listed.
CCA Article 39 (Accident Precaution Chemicals)	: None of the components are listed.
Existing Chemical Substances Subject to Registration	: ₱he following components are listed: Xylene; Dimethylbenzene, Quartz, Trizinc bis (orthophosphate
Dangerous Materials Safety Management Act	 Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
Wastes regulation	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Regulation according to	other foreign laws
International regulations	
<u>Chemical Weapon Conv</u>	rention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	

Not listed.

C.

D.

E.

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.

Section 16. Other information

A. References	: Not available.
B. Date of issue/Date of revision	: 2 November 2022
C. Version	: 1.01
Unique ID	:
Date of printing	: 2 November 2022

D. Other

 ${\ensuremath{\overline{/}}}$ Indicates information that has changed from previously issued version.

Section 16. Other information

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 = Intermediate 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	
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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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