

SAFETY DATA SHEET

FRS-40 MATT BASE DREAM GREY AIC2.49

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

Section 1. Chemical product and company identification

A. Product name : FRS-40 MATT BASE DREAM GREY AIC2.49

SDS code : 40780249B

B. 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.

C. Supplier's details

MAPAERO SAS

10, Avenue de la Rijole CS30098

09103 PAMIERS Cedex

France

e-mail address of

person responsible for

this SDS

Emergency telephone number (with hours of

operation)

: PSRA_PAMIERS@akzonobel.com

: +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

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

Category 3

SPEČIFÍC 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

Symbol :







Signal word : Warning

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Section 2. Hazards identification

Hazard statements : F226 - Flammable liquid and vapor.

H336 - May cause drowsiness or dizziness.

H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

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

sources. No smoking.

P260 - Do not breathe vapor.

Response: P314 - Get medical advice or attention if you feel unwell.

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.

C. Other hazards which do

not result in classification

: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	Common name	Identifiers	%
Manium dioxide	Titanium dioxide	CAS: 13463-67-7	≥20 - ≤25
n-butyl acetate	n-butyl acetate	CAS: 123-86-4	≥15 - ≤20
xylene	xylene	CAS: 1330-20-7	≤10
2-methoxy-1-methylethyl acetate	2-methoxy-1-methylethyl acetate	CAS: 108-65-6	≤10
silicon dioxide	silica, amorphous, fumed	CAS: 7631-86-9	≤5
ethylbenzene	ethylbenzene	CAS: 100-41-4	≤5
Talc , not containing asbestiform fibres	talc (non-asbestos form)	CAS: 14807-96-6	≤5
aluminium hydroxide	aluminum hydroxide	CAS: 21645-51-2	≤5
cyclohexanone	Cyclohexanone	CAS: 108-94-1	≤5
toluene	toluene	CAS: 108-88-3	≤5
methanol	methanol	CAS: 67-56-1	≤5

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

A. 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 following exposure or if feeling unwell.

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Section 4. First aid measures

B. 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 following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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. 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.

E. 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

A. Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

B. 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 firefighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Section 5. Fire-fighting measures

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

- A. 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.
- B. 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 for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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

: Fut on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.

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Section 7. Handling and storage

- B. 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. Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
n-butyl acetate	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Xylene]
	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.
cyclohexanone	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed
	through skin.
	TWA: 25 ppm 8 hours.
	STEL: 50 ppm 15 minutes.
toluene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
methanol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed
	through skin.
	STEL: 250 ppm 15 minutes.
	TWA: 200 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 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.

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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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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

A. Appearance

Physical state : Liquid. Color : Gray.

B. Odor : Characteristic. : Not available. C. Odor threshold

: Not available. [DIN EN 1262]

E. Melting/freezing point : Not available. F. Boiling point, initial : Not available.

boiling point, and boiling range

: Closed cup: 28°C (82.4°F) [Pensky-Martens]

: Not available. H. Evaporation rate Flammability (solid, gas) : Not available. Lower and upper

explosive (flammable)

limits

G. Flash point

: Not available.

K. Vapor pressure

	V	Vapor Pressure at 20°C			apor pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
methyl alcohol	126.96	16.9				
methyl methacrylate	27.75	3.7				
Toluene	23.17	3.1				
n-butyl acetate	11.25	1.5	DIN EN 13016-2			
ethylbenzene	9.3	1.2				
Xylene	6.7	0.89				

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Section 9. Physical and chemical properties

cyclohexanone	3.75	0.5				
cumene	3.72	0.5				
2-methoxy-1-methylethyl acetate	2.7	0.36				
Distillates (petroleum), hydrotreated light	0.23 to 0.45	0.031 to 0.06				
dimethyl succinate	0.18	0.024	EU A.4			
aluminium hydroxide	<0.075	<0.01				
dimethyl glutarate	0.062	0.0083	OECD 104			
2-hydroxyethyl methacrylate	0.06	0.008	OECD 104			
dimethyl adipate	0.021	0.0028				
2,6-di-tert-butyl-p-cresol	0.01	0.0013				
1,1'-(ethane-1,2-diyl)bis [pentabromobenzene]	<0.00000075	<0.0000001	OECD 104			
propylidynetrimethanol	0	0				
29H,31H-phthalocyaninato(2-)- N29,N30,N31,N32 copper	0	0	EU A.4			
[N,N,N',N',N",N"-hexaethyl-29H, 31H- phthalocyaninetrimethylaminato	0	0		0	0	
(2-)-N29,N30,N31,N32]copper						

L. Solubility(ies)

Media	Result
<mark>ø</mark> old water	Not soluble [OESO (TG 105)]

Solubility in water : Not available.

M. Vapor density :

N. Density : 7.403 g/cm³ [DIN EN ISO 2811-1]

O. Partition coefficient: n-

octanol/water

: Not applicable.

P. Auto-ignition temperature

Ingredient name	°C	°F	Method
N,N,N',N',N'',N''-hexaethyl-29H,31H-phthalocyaninetrimethylaminato(2-)-N29,N30,N31,N32]copper	192	377.6	
Distillates (petroleum), hydro- treated light	>220	>428	
8,18-dichloro-5,15-diethyl-5,15-dihydrodiindolo[3,2-b: 3',2'-m]triphenodioxazine	250	482	
5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione	280	536	VDI 2263
Ethene, homopolymer	330 to 410	626 to 770	
2-methoxy-1-methylethyl acetate	333	631.4	
3,3'-Dichlorobenzidine	350	662	
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	356	672.8	EU A.16
methyl methacrylate	400	752	DIN 51794
dimethyl adipate	400	752	DIN 51794
n-butyl acetate	415	779	EU A.15
cyclohexanone	420	788	

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Section 9. Physical and chemical properties

cumene	424	795.2	
Xylene	432	809.6	
ethylbenzene	432.22	810	
methyl alcohol	455	851	DIN 51794
Toluene	480	896	

Q. Decomposition

temperature

: Not available.

R. Viscosity

: Kinematic (room temperature): 784 mm²/s (784 cSt) [DIN EN ISO 3219] Kinematic (40°C (104°F)): 101 mm²/s (101 cSt) [DIN EN ISO 3219]

S. Molecular weight

: Not applicable.

Particle characteristics

Median particle size

: Not applicable.

Section 10. Stability and reactivity

A. Chemical stability

The product is stable.

reactions

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

B. 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

A. Information on the likely : Not available.

routes of exposure

Potential acute health effects

Inhalation

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

dizziness.

Ingestion

: Can cause central nervous system (CNS) depression.

Skin contact

: No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards. Over-exposure signs/symptoms

Inhalation

: Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Ingestion : No specific data. Skin contact : No specific data. Eye contact : No specific data.

B. <u>Health hazards</u>

Acute toxicity

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
r-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	
kylene	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
Aylerie			5000 ppm	4 hours
	LC50 Inhalation Gas.	Rat	5000 ppm	
	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	-
thylbenzene	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	
	LD50 Intraperitoneal	Mouse	2624 uL/kg	1_
			_	-
	LD50 Oral	Rat	3500 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	- -
yclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	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 uL/kg	
	LD50 Subcutaneous		_	-
-1		Rat	2170 mg/kg	04 5
oluene	LC50 Inhalation Gas.	Mouse	400 ppm	24 hours
	LC50 Inhalation Vapor	Mouse	30000 mg/m ³	2 hours
	LC50 Inhalation Vapor	Mouse	19900 mg/m ³	7 hours
	LC50 Inhalation Vapor	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	Wiodac	2 g/kg	
	LD50 Route of exposure	Rat	6900 mg/kg	
		Ivar	Uado Hig/kg	-
	unreported	N45	0050 "	
	LD50 Subcutaneous	Mouse	2250 mg/kg	-
nethanol	LC50 Inhalation Gas.	Mouse	61100 ppm	134 minutes
	LC50 Inhalation Gas.	Mouse	41000 ppm	6 hours
	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	8 hours

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	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Intraperitoneal	Rat	7529 mg/kg	-
	LD50 Intravenous	Mouse	4710 mg/kg	-
	LD50 Intravenous	Rat	2131 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
	LD50 Subcutaneous	Mouse	9800 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<mark>ਯ</mark> -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	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours	-
				500 mg	
silicon dioxide	Eyes - Mild irritant	Rabbit	-	24 hours 25	-
				mg	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
cyclohexanone	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours	-
				250 ug	
	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	-
	Olein Milalinitana	D. 1.1.26		mg	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
	Oldin Madamata imitanat	D = - - -		mg	
no other and	Skin - Moderate irritant	Rabbit	-	500 mg	-
methanol	Eyes - Moderate irritant	Rabbit	-	24 hours	-
	Eyes - Moderate irritant	Rabbit		100 mg	
	Skin - Moderate irritant	Rabbit	_	40 mg 24 hours 20	[
	Skiii - Woderate IIIItant	Kappil	-		-
				mg	

Sensitization

Not available.

CMR - ISHA Article 42 Occupational Exposure Limits

Product/ingredient name	Identifiers	Classification
tranium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
ethylbenzene	CAS: 100-41-4	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

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Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP	ACGIH
titanium dioxide	-	2B	-	A4
xylene	-	3	-	A4
silicon dioxide	-	3	-	-
ethylbenzene	-	2B	-	A3
Talc , not containing asbestiform fibres	-	3	-	A4
aluminium hydroxide	-	-	-	A4
cyclohexanone	-	3	-	A3
toluene	-	3	-	A4

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
xylene	Category 3	-	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
toluene	Category 3	-	Narcotic effects
methanol	Category 1	-	-

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
x ylene	Category 1	-	-
ethylbenzene	Category 2	-	hearing organs
toluene	Category 2	-	-

Aspiration hazard

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

Potential chronic health effects

Chronic toxicity

Not available.

General : May cause damage to organs through prolonged or repeated exposure.

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

Section 12. Ecological information

A. Ecotoxicity

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Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
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
	Acute LC50 13.4 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 11 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 3.6 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 15.9 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 13 mg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
	Acute LC50 >1000 mg/l Fresh water	Fish - Pimephales promelas	96 hours
n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
xylene	Acute EC50 90 mg/l Fresh water	Crustaceans - Cypris	48 hours
Aylerie		subglobosa	
	Acute LC50 8.5 ppm Marine water	Crustaceans - Palaemonetes pugio - Adult	48 hours
	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 16940 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Acute LC50 15700 μg/l Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	A custo I OFO 20070 um/l Freeb weter		96 hours
	Acute LC50 20870 µg/l Fresh water	Fish - Lepomis macrochirus	
	Acute LC50 19000 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	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 4900 μg/l Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 7700 μg/l Marine water	Algae - Skeletonema costatum	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	48 hours

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	Acute LC50 18.4 mg/l Fresh water	- Zoea Daphnia - Daphnia magna -	48 hours
	Acute LC50 13.9 mg/l Fresh water	Neonate Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 75000 μg/l Fresh water Acute LC50 5100 μg/l Marine water	Daphnia - Daphnia magna Fish - Menidia menidia	48 hours 96 hours
	Acute LC50 4.3 ul/L Marine water	Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 4200 μg/l Fresh water Acute LC50 9090 μg/l Fresh water	Fish - Oncorhynchus mykiss Fish - Pimephales promelas	96 hours 96 hours
cyclohexanone	Acute LC50 9100 µg/l Fresh water Acute EC50 32.9 mg/l Fresh water	Fish - Pimephales promelas Algae - Chlamydomonas reinhardtii - Exponential growth phase	96 hours 72 hours
	Acute LC50 630000 µg/l Fresh water Acute LC50 527000 µg/l Fresh water	Fish - Pimephales promelas Fish - Pimephales promelas	96 hours 96 hours
toluene	Acute LC50 732000 μg/l Fresh water Acute EC50 12500 μg/l Fresh water	Fish - Pimephales promelas Algae - Pseudokirchneriella subcapitata	96 hours 72 hours
	Acute EC50 16500 μg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 11600 μg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6.88 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 6.56 mg/l Fresh water Acute EC50 19600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate Daphnia - Daphnia magna -	48 hours 48 hours
	Acute EC50 6000 µg/l Fresh water	Larvae Daphnia - Daphnia magna -	48 hours
		Juvenile (Fledgling, Hatchling, Weanling)	
	Acute EC50 6780 μg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 56.3 ppm Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 15.5 ppm Marine water	Crustaceans - Palaemonetes pugio - Adult	48 hours
	Acute LC50 15500 µg/l Marine water Acute LC50 86.3 mg/l Fresh water	Crustaceans - Palaemonetes pugio	48 hours 48 hours
	Acute LC50 6410 µg/l Marine water	Daphnia - Daphnia magna - Neonate Fish - Oncorhynchus	96 hours
	Acute LC50 5500 µg/l Fresh water	gorbuscha - Fry Fish - Oncorhynchus kisutch -	96 hours
	Acute LC50 5800 µg/l Fresh water	Fry Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 6780 μg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 2 mg/l Fresh water Chronic NOEC 1000 µg/l Fresh water		21 days 21 days
methanol	Acute EC50 16.912 mg/l Marine wate Acute EC50 24500000 µg/l Fresh water	r Algae - Ulva pertusa Daphnia - Daphnia magna - Larvae	96 hours 48 hours
	Acute EC50 22200 mg/l Fresh water	Daphnia - Daphnia obtusa - Neonate	48 hours
	Acute EC50 12835 mg/l Fresh water Acute EC50 12700000 µg/l Fresh	Fish - Lepomis macrochirus Fish - Lepomis macrochirus -	96 hours 96 hours
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water	Juvenile (Fledgling, Hatchling, Weanling)	
Acute EC50 13000000 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Acute LC50 2500000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
Acute LC50 15.32 g/L Fresh water	Fish - Oreochromis mossambicus - Adult	96 hours
Chronic NOEC 24 ppm Fresh water	Algae - Eutreptiella sp.	96 hours
Chronic NOEC 71 ppm Fresh water	Algae - Heterosigma akashiwo	96 hours
	Algae - Prorocentrum minimum	96 hours
Chronic NOEC 1400 ppm Fresh water	Algae - Skeletonema costatum	96 hours
Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

B. Persistence and degradability

Not available.

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<mark>ଜ-</mark> butyl acetate	2.3	-	low
xylene	3.12	8.1 to 25.9	low
2-methoxy-1-methylethyl	1.2	-	low
acetate			
ethylbenzene	3.6	-	low
cyclohexanone	0.86	-	low
toluene	2.73	90	low
methanol	-0.77	<10	low

D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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.

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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	III	III
E. Environmental hazards	No.	No.	No.

Additional information

UN : Viscous liquid exception This class 3 viscous liquid is not subject to regulation in

packagings up to 450 L according to 2.3.2.5.1.

IMDG : Emergency schedules F-E, S-E

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. IMDG Code Segregation group Not applicable

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

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 117 (Harmful substances

: None of the components are listed.

manufacture) ISHA article 118 (Harmful substances

prohibited from

: None of the components are listed.

requiring permission) **Article 2 of Youth**

: Not applicable.

Protection Act on Substances Hazardous

to Youth

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

n-butyl acetate

xylene

ethylbenzene

cyclohexanone

toluene

methanol

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Section 15. Regulatory information

Annex 19 (Exposure standards established for harmful factors)

ISHA Enforcement Regs: The following components are listed: cyclohexanone, toluene, methanol

ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work

The following components are listed: titanium dioxide, n-butyl acetate, xylene, silica, ethyl benzene, talc / soapstone, aluminum and its compounds

Environment Measurement)

ISHA Enforcement Regs Annex 22 (Harmful **Factors Subject to** Special Health Check: The following components are listed: Xylene, Ethyl benzene, Aluminum and its compounds

up)

Standard of Industrial Safety and Health **Annex 12 (Hazardous** substances subject to control)

: The following components are listed: titanium dioxide, n-butyl acetate, xylene, ethyl benzene, aluminum and its compounds

B. Regulation according to Chemicals Control Act

: The following components are listed: Xylene including o-,m-,p- isomer, Article 11 (TRI)

Ethylbenzene, Aluminium and its compounds

Reach Article 27)

Article 18 Prohibited (K-: None of the components are listed.

: None of the components are listed.

Article 19 Subject to

authorization (K-Reach Article 25)

Article 20 Toxic

Chemicals (K-Reach

Article 20)

: Not applicable

Reach Article 27)

Article 20 Restricted (K- : None of the components are listed.

: None of the components are listed.

Article 39 (Accident

Precaution Chemicals)

Existing Chemical

Substances Subject to Registration

: The following components are listed: Xylene; Dimethylbenzene, Toluene, Quartz,

3,3'-Dichloro-(1,1'-biphenyl)-4,4'-diamine, Methanol; Methyl alcohol

C. 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

: Dispose of contents and container in accordance with all local, regional, national D. Wastes regulation

and international regulations.

E. Regulation according to other foreign laws

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed

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Section 15. Regulatory information

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 : - Registry of Toxic Effects of Chemical Substances

- United States Environmental Protection Agency ECOTOX

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D. Other

▼ Indicates information that has changed from previously issued version.

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,

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1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group UN = United Nations

Notice to reader

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