

SAFETY DATA SHEET

ISOMAP P21 BASE GREY RAL 7015

Section 1. Identification

GHS product identifier : ISOMAP P21 BASE GREY RAL 7015

SDS code : 12021000B

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 primer

Supplier's details

MAPAERO SAS

10, Avenue de la Rijole CS30098

09103 PAMIERS Cedex

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

2. Hazards identification

GHS Classification : FLAMMABLE LIQUIDS - Category 2

> EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

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

Category 3

AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms







Signal word : Danger

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

May cause an allergic skin reaction. Causes serious eye irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

Precautionary statements

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2. Hazards identification

General

: Not applicable.

Prevention

: Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks and hot surfaces. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges.

Avoid release to the environment. Avoid breathing vapor.

Response

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

advice or attention.

Storage

: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal

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

and international regulations.

3. Composition/information on ingredients

Substance/mixture

Ingredient name	%	CAS number	Official Gazette notice reference number	
			CSCL	ISHL
butanone	≥25 - ≤50	78-93-3	2-542	2-542
trizinc bis(orthophosphate)	≤10	7779-90-0	1-1181; 1-526	(1)-1181; (1) -526
titanium dioxide	≤10	13463-67-7	1-558; 5-5225	2-(3)-509
Barite (Ba(SO4))	≤5.0	13462-86-7	1-89	Not available.
Reaction mass of ethylbenzene and xylene	3.1	-	Not available.	Not available.
cyclohexanone	≤3.0	108-94-1	3-2376	Not available.
xylene	2.5	1330-20-7	3-3; 3-60	(3)-3; (3)-60
cyclohexanone	≤3.0	108-94-1	Not available.	Not available.
carbon black, respirable powder	≤1.0	1333-86-4	5-3328; 5-5222	Not available.
zinc oxide	≤0.30	1314-13-2	1-561	(1)-561
Fatty acids, C14-18 and C16-18-unsatd., maleated	≤0.30	85711-46-2	Not available.	Not available.
maleic anhydride	0.0010	108-31-6	2-1101	(2)-1101

4. First aid measures

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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.

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4. First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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

dizziness.

Skin contact: May cause an allergic skin reaction.

Eye contact : Causes serious eye irritation.

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

Over-exposure signs/symptoms

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

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

5. Fire-fighting measures

Suitable extinguishing

media

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

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

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

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5. Fire-fighting measures

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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.

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

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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material. kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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7. Handling and storage

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from 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.

8. Exposure controls/personal protection

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.

Occupational exposure limits

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mg/m³ 8 hours.
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mg/m³
1

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8. Exposure controls/personal protection

OEL-C: 0.2 ppm OEL-M: 0.4 mg/m³ 8 hours. OEL-M: 0.1 ppm 8 hours.

Individual protection measures

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.

: Chemical-resistant, impervious gloves complying with an approved standard should Hand protection

> 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.

: Safety eyewear complying with an approved standard should be used when a risk Eye protection

> assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash

goggles.

: Personal protective equipment for the body should be selected based on the task Skin protection

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.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

9. Physical and chemical properties

Appearance

Physical state : Liquid. Color : Gray.

Odor : Characteristic. Hq : Not available. Melting point/freezing point : Not available. : Not available. Boiling point, initial boiling

point, and boiling range

: Closed cup: 18°C

Upper/lower flammability or

explosive limits

Flash point

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

: Not available. Vapor pressure

Vapor density : Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate).

Weighted average: 2.96 (Air = 1)

Density : 1.122 g/cm³

Solubility(ies) : Insoluble in the following materials: cold water.

Partition coefficient: n-octanol/: Not available.

water

Auto-ignition temperature : Not available. **Decomposition temperature** : Not available.

Viscosity : Kinematic (room temperature): 4.72 cm²/s

Kinematic (40°C): 1.01 cm²/s

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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

Hazardous decomposition

products

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

should not be produced.

11. Toxicological information

Acute toxicity

Result	Species	Dose	Exposure
LC50 Inhalation Vapor	Mouse	32 g/m³	4 hours
LC50 Inhalation Vapor	Rat	23500 mg/m ³	8 hours
LD50 Dermal	Rabbit	6480 mg/kg	-
LD50 Intraperitoneal	Guinea pig	2 g/kg	-
LD50 Intraperitoneal	Mouse		-
LD50 Intraperitoneal	Rat	607 mg/kg	-
	Mouse	3000 mg/kg	-
LD50 Oral	Rat	2737 mg/kg	-
LD50 Intraperitoneal	Mouse	552 mg/kg	-
LD50 Intraperitoneal	Rat	551 mg/kg	-
LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
LD50 Dermal	Rabbit	1 mL/kg	-
LD50 Intraperitoneal	Guinea pig		-
LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	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	Rat	2170 mg/kg	-
LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
LC50 Inhalation Gas.	Rat		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		-
LD50 Oral	Rat	4300 mg/kg	-
LD50 Subcutaneous	Rat	1700 mg/kg	-
LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
LD50 Dermal	Rabbit	1 mL/kg	-
LD50 Intraperitoneal	Guinea pig	930 mg/kg	I -
	LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Oral LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Gas. LD50 Dermal LD50 Intraperitoneal LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Intraperitoneal LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Gas.	LC50 Inhalation Vapor LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Oral LD50 Oral LD50 Intraperitoneal LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Inhalation Gas. LC50 Inhalation Gas. Rat LC50 Inhalation Gas. Rat LC50 Inhalation Gas. Rat LD50 Intraperitoneal Rat LD50 Oral Rat LD50 Subcutaneous Rat LD50 Subcutaneous Rat LD50 Subcutaneous Rat LD50 Dermal Rat LD50 Dermal Rabbit	LC50 Inhalation Vapor LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Oral LD50 Intraperitoneal LD50 Oral LD50 Intraperitoneal LD50 Oral LD50 Oral LD50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Gas. LD50 Intraperitoneal LD50 Intraperiton

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11. Toxicological information

30 mg/kg 30 mg/kg	
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40 mg/kg	_
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20 uL/kg	-
70 mg/kg	-
5400 mg/kg	-
0 mg/kg	-
50 mg/kg	-
0 g/kg	-
20 mg/kg	-
mg/kg	-
0 mg/kg	-
5 mg/kg	-
5 mg/kg	-
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43300275 0502 1055	10 mg/kg 30 mg/kg 30 mg/kg 30 mg/kg 30 mg/kg 30 mg/kg 50 mg/kg 5400 mg/kg 50 mg/kg 50 mg/kg 50 mg/kg 50 mg/kg 50 mg/kg 50 mg/kg 50 mg/kg

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
\$\overline{\sigma}2/12021000B-GRY_SBPR_P21	N/A	44215.7	N/A	175.1	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100	5000	N/A	N/A
cyclohexanone	N/A	N/A	N/A	11	N/A
xylene	N/A	1100	N/A	11	N/A
cyclohexanone	N/A	N/A	N/A	11	N/A
maleic anhydride	500	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
b utanone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 402	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Reaction mass of	Eyes - Mild irritant	Rabbit	_	87 mg	-
ethylbenzene and xylene					
	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 %	-
cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
				ug	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	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 %	-

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cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
				ug	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 %	-

Respiratory sensitization/Skin sensitization

Not available.

Germ Cell Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
butanone Reaction mass of ethylbenzene and xylene	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene maleic anhydride	Category 2 Category 1	- inhalation	respiratory system

Aspiration hazard

Name	Result
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1

12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
b utanone	Acute EC50 >500000 μg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 >500 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 5091000 μg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 5600 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
trizinc bis(orthophosphate)	Acute LC50 90 µg/l Fresh water	Fish - Oncorhynchus mykiss	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	48 hours

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12. Loological IIII	Jimation		
		dubia - Neonate	
	Acute LC50 13.4 mg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
	3	dubia - Neonate	
	Acute LC50 11 mg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
	Troute 2000 11 mg/11 room water	dubia - Neonate	TO HOUIS
	Aguta I CEO 2.6 mg/l Fresh water		48 hours
	Acute LC50 3.6 mg/l Fresh water	Crustaceans - Ceriodaphnia	46 Hours
	1 1 1 0 5 0 4 5 0 11 5 1 1 1	dubia - Neonate	40.1
	Acute LC50 15.9 mg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
		dubia - Neonate	
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Daphnia pulex -	48 hours
		Neonate	
	Acute LC50 13 mg/l Fresh water	Daphnia - Daphnia pulex -	48 hours
		Neonate	
	Acute LC50 >1000 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 >1000000 µg/l Marine	Fish - Fundulus heteroclitus	96 hours
	water	Tion Tandad neteroontas	oo noars
Parita (Pa(SO4))	Acute LC50 76000000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Barite (Ba(SO4))			
Reaction mass of	Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene and xylene			
cyclohexanone	Acute EC50 32.9 mg/l Fresh water	Algae - Chlamydomonas	72 hours
		reinhardtii - Exponential growth	
		phase	
	Acute LC50 630000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 527000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 732000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
xylene	Acute EC50 90 mg/l Fresh water	Crustaceans - Cypris	48 hours
Aylerie	Acute LC30 90 mg/m resin water		40 110013
	A - vita I OFO O F many Manina vicatan	subglobosa	40 5
	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
		Fish - Carassius auratus	96 hours
	Acute LC50 16940 µg/l Fresh water		
cyclohexanone	Acute EC50 32.9 mg/l Fresh water	Algae - Chlamydomonas	72 hours
		reinhardtii - Exponential growth	
		phase	
	Acute LC50 630000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 527000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 732000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
carbon black, respirable	Acute EC50 37.563 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
powder	9	Neonate	
P 3 11 4 2 5 1	Acute LC50 61.547 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	Troute 2000 01:047 mg/11 reon water	Neonate	10 110013
zino ovido	Aguto EC50 1 mg/l Fresh water	. 10 01 10.10	48 hours
zinc oxide	Acute EC50 1 mg/l Fresh water	Daphnia - Daphnia magna -	46 Hours
	4 50500000 #5 4	Neonate	40.1
	Acute EC50 0.622 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 1.25 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	mg/// room water	Neonate	
	Acute LC50 2246000 μg/l Fresh water	Fish - Pimephales promelas -	96 hours
	Acute Lood 2240000 µg/I Flesii watel	Neonate	Journals
	Aguta I CEO 1 1 ppm Frackter		06 haura
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 3.969 mg/l Fresh water	Fish - Danio rerio - Adult	96 hours
1	1	1	

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12. Ecological information

	Acute LC50 2.525 mg/l Fresh water	Fish - Danio rerio - Adult	96 hours
maleic anhydride	Acute LC50 230 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

Persistence/degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
vutanone	0.3	-	low
trizinc bis(orthophosphate)	-	60960	high
Reaction mass of	3.12	8.1 to 25.9	low
ethylbenzene and xylene			
cyclohexanone	0.86	-	low
xylene	3.12	8.1 to 25.9	low
cyclohexanone	0.86	-	low
zinc oxide	-	28960	high
maleic anhydride	-2.78	-	low

Mobility in soil : Not available.

Hazardous to the ozone

<u>layer</u>

: Not applicable.

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

13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or 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. 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.

14. Transport information

	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	II	II	II

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14. Transport information

Environmental	Yes. The environmentally	Marine Pollutant(s):	Yes. The environmentally
hazards	hazardous substance mark is	trizinc bis(orthophosphate)	hazardous substance mark is
	not required.		not required.

Additional information

UN : Viscous liquid exception This class 3 material can be shipped as Packing Group

III in packagings up to 450 L.

IMDG : Emergency schedules F-E, S-E

The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Viscous liquid exception This class 3 material can be shipped as Packing Group

III in packagings up to 450 L.

IATA : The environmentally hazardous substance mark may appear if required by other

transportation regulations.

Viscous liquid exception This class 3 material can be shipped as Packing Group III in packagings up to 30 L (100 L for cargo aircraft). Transport in accordance with

this provision must be noted on the Shipper's Declaration.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

15. Regulatory information

Fire Service Law

Category	Substance name/Type	Danger category		Designated quantity
Category IV	Class I petroleums	II	Flammable - Keep Fire Away	200 L

Fire Service Law -: Listed

Obstructive materials

ISHL

Substances requiring labelling

Ingredient name	%	Status	Reference number
butanone	≥25 - ≤50	Listed	570
cyclohexanone	≤3.0	Listed	231
titanium dioxide	≤10	Listed	191
Reaction mass of ethylbenzene and xylene	≤5.0	Listed	136
xylene	≤3.0	Listed	136
cyclohexanone	≤3.0	Listed	231

Chemicals requiring notification

Ingredient name	%	Status	Reference number
b utanone	≥25 - ≤50	Listed	570
cyclohexanone	≤3.0	Listed	231
titanium dioxide	≤10	Listed	191
zinc oxide	≤0.30	Listed	188
Reaction mass of ethylbenzene and xylene	≤5.0	Listed	136
xylene	≤3.0	Listed	136
carbon black, respirable powder	≤1.0	Listed	130
cyclohexanone	≤3.0	Listed	231

Guideline for Preventing Health Hazard by chemical substances (Carcinogenicity)

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15. Regulatory information

Ingredient name	%		Reference number
ethylbenzene	<1.0	Listed	-

ISHL Appendix 1 : Flammable liquid Class 3

Organic solvents poisoning prevention

: Class 2

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
octamethylcyclotetrasiloxane	<0.010	Monitoring	40
butanone	≥25 - ≤50	Priority	115
		assessment	
cyclohexanone	≤3.0	Priority	131
		assessment	
2,6-di-tert-butyl-p-cresol	<0.10	Priority	64
		assessment	
Reaction mass of ethylbenzene and xylene	≤5.0	Priority	125
		assessment	
1,2,4-trimethylbenzene	≤0.30	Priority	49
		assessment	
xylene	≤3.0	Priority	125
		assessment	
cumene	≤0.10	Priority	126
		assessment	
cyclohexanone	≤3.0	Priority	131
		assessment	

Poisonous and Deleterious Substances

Ingredient name	%		Reference number
Barite (Ba(SO4))	≤5.0	Deleterious	79

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
Reaction mass of ethylbenzene and xylene xylene	3.1	Class 1	80
	2.5	Class 1	80

JSOH Carcinogen : Group 2B

16. Other information

History

Date of printing : 1 November 2022

Date of issue/ Date of : 1 November 2022

revision

Date of previous issue : 21 October 2022

Version : 1.02

Unique ID :

Date of issue/Date of revision: 1-11-2022Version: 1.02

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16. Other information

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

Procedure used to derive the classification

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

▼ Indicates information that has changed from previously issued version.

Notice to reader

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