

SAFETY DATA SHEET

PPG AQUACOVER 45 GREY 5163



Date of issue 16 February 2024

Version 23

1. Product and company identification

Product name : PPG AQUACOVER 45 GREY 5163
Product code : 00249288
Product type : Liquid.

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

Product use : Professional applications, Used by spraying.

**Use of the substance/
mixture** : Coating.

Uses advised against : Not applicable.

Supplier's details : PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe
652-0803 Japan; Tel: +81-78-574-2777

**Emergency telephone
number** : 078 574 2777

2. Hazards identification

GHS Classification : CARCINOGENICITY - Category 1A
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 2
HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -
Category 2

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : May cause cancer.
May cause damage to organs. (blood system, central nervous system (CNS))
Causes damage to organs through prolonged or repeated exposure. (central
nervous system (CNS), respiratory organs)
Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions
have been read and understood. Wear protective gloves, protective clothing and
eye or face protection. Avoid release to the environment. Do not breathe vapor.
Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response : Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor.

Storage : Store locked up.

2. Hazards identification

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation. Contains isothiazolinones. May cause allergic reaction.

3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

CAS number : Not applicable.

CSCL number : Not available.

Ingredient name	%	CAS number	CSCL
Titanium dioxide (excluding nanoparticle)	15 - <20	13463-67-7	1-558; 5-5225
Dipropylene glycol methyl ether	2 - <3	34590-94-8	2-426; 7-97
2,2,4-trimethylpentane-1,3-diol monoisobutyrate	2 - <3	25265-77-4	2-4161
Propane-1,2-diol	1 - <2	57-55-6	2-234
Distillates (petroleum), hydrotreated light paraffinic	0.5 - <1	64742-55-8	Not available.
Zirconium oxide	0.2 - <0.5	1314-23-4	1-563
Silica silicon dioxide containing crystalline and amorphous	0.1 - <0.2	7631-86-9	1-548
tetraamminezinc(2+) carbonate	0.1 - <0.2	38714-47-5	Not available.
propylidynetrimethanol	0.1 - <0.2	77-99-6	2-245
Ammonium hydroxide	0.1 - <0.2	1336-21-6	1-314
4,5-Dichloro-2-octylisothiazol-3(2H)-one	<0.1	64359-81-5	5-6165
3-iodo-2-propynyl butylcarbamate	<0.1	55406-53-6	2-3456
Zinc salt of 2-pyridinethiol 1-oxide	<0.1	13463-41-7	5-3725; 9-1110

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.

SUB codes represent substances without registered CAS Numbers.

4. First aid measures

Description of necessary first aid measures

- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause skin dryness and irritation.

4. First aid measures

Ingestion : May cause damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
dryness
cracking

Ingestion : No specific data.

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

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst. 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.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon oxides
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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. 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. 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. 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.

7. Handling and storage

Precautions for safe handling : 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. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage : Store between the following temperatures: 5 to 35°C (41 to 95°F). Store in accordance with local regulations. 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. 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

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated light paraffinic	Japan Society for Occupational Health (Japan, 9/2022). [Oil mist, mineral] OEL-M: 3 mg/m ³ 8 hours. Form: Mist
Ammonium hydroxide	Japan Society for Occupational Health (Japan, 9/2022). [Ammonia] OEL-M: 25 ppm 8 hours. OEL-M: 17 mg/m ³ 8 hours.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye protection : Safety glasses with side shields.

Skin protection

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.

Gloves

: For prolonged or repeated handling, use the following type of gloves:

Recommended: butyl rubber, Viton®, nitrile rubber

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.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

8. Exposure controls/personal protection

9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Gray.
Odor	: Amine-like.
pH	: 8
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: Not applicable.
Relative density	: 1.25

Solubility(ies)	Media	Result
	cold water	Partially soluble

Viscosity : > 100 s (ISO 6mm)

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 : When exposed to high temperatures may produce hazardous decomposition products.

Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products : Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide (excluding nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Dipropylene glycol methyl ether	LC50 Inhalation Vapor	Rat	500 ppm	4 hours
	LD50 Dermal	Rabbit	9.5 g/kg	-
2,2,4-trimethylpentane-1,3-diol monoisobutyrate	LD50 Oral	Rat	5.23 g/kg	-
	LD50 Dermal	Rabbit	>15.2 g/kg	-
Propane-1,2-diol	LD50 Oral	Rat	6.5 g/kg	-
	LD50 Dermal	Rabbit	20800 mg/kg	-

11. Toxicological information

Distillates (petroleum), hydrotreated light paraffinic	LD50 Oral	Rat	20 g/kg	-
	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
Silica silicon dioxide containing crystalline and amorphous	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-
propylidynetrimethanol	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
	LD50 Dermal	Rabbit	10 g/kg	-
Ammonium hydroxide	LD50 Oral	Rat	14000 mg/kg	-
	LD50 Oral	Rat	350 mg/kg	-
4,5-Dichloro-2-octylisothiazol-3(2H)-one	LC50 Inhalation Dusts and mists	Rat	0.16 mg/l	4 hours
	LD50 Dermal	Rabbit	3.9 g/kg	-
3-iodo-2-propynyl butylcarbamate	LD50 Oral	Rat	567 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	0.67 mg/l	4 hours
	LD50 Dermal	Rabbit	>2 g/kg	-
Zinc salt of 2-pyridinethiol 1-oxide	LD50 Oral	Rat	1470 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	0.14 mg/l	4 hours
	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	177 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
3-iodo-2-propynyl butylcarbamate	Eyes - Severe irritant	Rabbit	-	-	-
Zinc salt of 2-pyridinethiol 1-oxide	Eyes - Cornea opacity	Rabbit	4	24 hours	24 hours

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Diethylene glycol methyl ether	Category 3	-	Respiratory tract irritation
Propane-1,2-diol	Category 3	-	Narcotic effects blood system, central nervous system (CNS)
	Category 1		
Silica silicon dioxide containing crystalline and amorphous	Category 3	-	Narcotic effects Respiratory tract
	Category 3		

11. Toxicological information

Ammonium hydroxide	Category 1	-	irritation central nervous system (CNS), respiratory organs
4,5-Dichloro-2-octylisothiazol-3(2H)-one	Category 1 Category 3	-	respiratory organs Narcotic effects
3-iodo-2-propynyl butylcarbamate	Category 1	-	respiratory organs
Zinc salt of 2-pyridinethiol 1-oxide	Category 1	-	nervous system

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
Propane-1,2-diol	Category 1	-	central nervous system (CNS), respiratory organs
Silica silicon dioxide containing crystalline and amorphous	Category 1	-	immune system, kidneys, respiratory organs
4,5-Dichloro-2-octylisothiazol-3(2H)-one	Category 1	-	respiratory organs
3-iodo-2-propynyl butylcarbamate	Category 1	-	respiratory organs
Zinc salt of 2-pyridinethiol 1-oxide	Category 1	-	nervous system, respiratory system

Aspiration hazard

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

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : May cause damage to organs following a single exposure if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Ingestion** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

11. Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

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)
Dipropylene glycol methyl ether	5230	9500	N/A	N/A	N/A
2,2,4-trimethylpentane-1,3-diol monoisobutyrate	6500	N/A	N/A	N/A	N/A
Propane-1,2-diol	20000	20800	N/A	N/A	N/A
propylidynetrimethanol	14000	10000	N/A	N/A	N/A
Ammonium hydroxide	350	N/A	N/A	N/A	N/A
4,5-Dichloro-2-octylisothiazol-3(2H)-one	567	3900	N/A	N/A	0.16
3-iodo-2-propynyl butylcarbamate	1470	2500	N/A	N/A	0.67
Zinc salt of 2-pyridinethiol 1-oxide	177	2500	N/A	N/A	0.14

Other information :

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Contains isothiazolinones. May cause allergic reaction. Avoid contact with skin and clothing.

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Dipropylene glycol methyl ether	Acute EC50 1919 mg/l	Daphnia	48 hours
2,2,4-trimethylpentane-1,3-diol monoisobutyrate	Acute LC50 33 mg/l	Fish	96 hours
Propane-1,2-diol	Acute LC50 40613 mg/l	Fish	96 hours
Silica silicon dioxide containing crystalline and amorphous	Acute EC50 2.2 g/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 >10000 mg/l	Fish	96 hours
	Chronic NOEC 12.5 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours
4,5-Dichloro-2-octylisothiazol-3(2H)-one	Acute EC50 267.368 µg/l Marine water	Algae - <i>Nitzschia pungens</i>	96 hours
	Acute LC50 0.318 mg/l Marine water	Crustaceans - <i>Artemia sp.</i>	48 hours
	Acute LC50 0.0027 mg/l Fresh water	Fish	96 hours

12. Ecological information

3-iodo-2-propynyl butylcarbamate	Chronic NOEC 19.789 µg/l Marine water	Algae - <i>Nitzschia pungens</i>	96 hours
	Chronic NOEC 0.00056 mg/l Fresh water	Fish	97 days
	Acute EC50 0.186 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Zinc salt of 2-pyridinethiol 1-oxide	Acute LC50 0.067 mg/l	Fish	96 hours
	Chronic NOEC 0.049 mg/l	Fish	96 hours
	Acute EC50 5.513 µg/l Marine water	Algae - <i>Nitzschia pungens</i>	96 hours
	Acute LC50 0.0082 mg/l	Daphnia	48 hours
	Chronic NOEC 1.889 µg/l Marine water	Algae - <i>Nitzschia pungens</i>	96 hours
	Chronic NOEC 0.0027 mg/l	Daphnia	21 days

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2,2,4-trimethylpentane-1,3-diol monoisobutyrate	OECD 301B	>76 % - Readily - 28 days	-	-
3-iodo-2-propynyl butylcarbamate	-	25 % - Inherent - 28 days	-	-
Zinc salt of 2-pyridinethiol 1-oxide	-	39 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2,2,4-trimethylpentane-1,3-diol monoisobutyrate	-	-	Readily
Propane-1,2-diol	-	-	Readily
3-iodo-2-propynyl butylcarbamate	-	-	Inherent
Zinc salt of 2-pyridinethiol 1-oxide	-	50%; < 28 day(s)	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Dipropylene glycol methyl ether	0.004	-	Low
2,2,4-trimethylpentane-1,3-diol monoisobutyrate	3.2	-	Low
Propane-1,2-diol	-1.07	-	Low
propylidynetrimethanol	-0.47	-	Low
Zinc salt of 2-pyridinethiol 1-oxide	0.9	0.9	Low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	UN	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetraamminezinc(2+) carbonate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetraamminezinc(2+) carbonate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetraamminezinc(2+) carbonate)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(tetraamminezinc(2+) carbonate)	Not applicable.

Additional information

- UN** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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 to IMO instruments : Not applicable.

15. Regulatory information

Fire Service Law

None of the components are listed.

Pollutant Release and Transfer Registers (PRTR)

None of the components are listed.

Industrial Safety and Health Act

Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
Titanium(IV) oxide	≥10 - ≤20	Listed	191
1-(2-Methoxy-2-methylethoxy)-2-propanol	≤10	Listed	601
Crystalline silica	≤10	Listed	165-2

Chemicals requiring notification

Ingredient name	%	Status	Reference number
Titanium(IV) oxide	≥10 - ≤20	Listed	191
1-(2-Methoxy-2-methylethoxy)-2-propanol	≤10	Listed	601
Mineral oil	≤10	Listed	168
Crystalline silica	≤10	Listed	165-2
Ammonia	≤10	Listed	39

Carcinogens based on Article 577-2 of the Ordinance on ISH

None of the components are listed.

Mutagen

None of the components are listed.

- Corrosive liquid** : Not listed
- Occupational Safety and Health Law** : Oxidizing, Inflammable
- Regulations on the Prevention of Tetraalkyl Lead Poisoning** : Not listed
- Harmful Substances Subject to Obtaining Permission for Manufacturing** : Not listed
- Harmful Substances, Prohibited for Manufacturing** : Not listed
- ISHL Enforcement Order Appendix 1 - Dangerous Substances** : Oxidizing, Inflammable
- Lead regulation** : Not listed
- Organic solvents poisoning prevention** : Not applicable.

15. Regulatory information

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
Propane-1,2-diol	≤10	Priority assessment	106
[alpha-(Alkyl(C16-18))-omega-hydroxypoly(oxyethane-1,2-diyl) or alpha-(alkenyl(C16-18))-omega-hydroxypoly(oxyethane-1,2-diyl)] (It is limited that the number-average molecular weight of the polymer is less than 1,000.)	≤10	Priority assessment	250
4,5-Dichloro-2-octylisothiazol-3(2H)-one	≤10	Priority assessment	221
[alpha-(Alkyl(C16-18))-omega-hydroxypoly(oxyethane-1,2-diyl) or alpha-(alkenyl(C16-18))-omega-hydroxypoly(oxyethane-1,2-diyl)] (It is limited that the number-average molecular weight of the polymer is less than 1,000.)	≤10	Priority assessment	250
[alpha-(Alkyl(C16-18))-omega-hydroxypoly(oxyethane-1,2-diyl) or alpha-(alkenyl(C16-18))-omega-hydroxypoly(oxyethane-1,2-diyl)] (It is limited that the number-average molecular weight of the polymer is less than 1,000.)	≤10	Priority assessment	250
alpha-Alkyl(C9-11)-omega-hydroxypoly(oxyethylene) (It is limited that a number-average molecular weight of the polymer is less than 1,000.)	≤10	Priority assessment	188
2,2,4,4,6,6,8,8-Octamethyl-1,3,5,7,2,4,6,8-tetraoxatetrasiloxane	≤10	Monitoring	40
alpha-Alkyl(C9-11)-omega-hydroxypoly(oxyethylene) (It is limited that a number-average molecular weight of the polymer is less than 1,000.)	≤10	Priority assessment	188
(T-4)-Bis[2-(thioxo-kappaS)-pyridin-1(2H)-olato-kappaO]zinc(II)	≤10	Priority assessment	139
2,2,4,4,6,6,8,8,10,10,12,12-Dodecamethyl-1,3,5,7,9,11-hexaoxa-2,4,6,8,10,12-hexasilacyclododecane	≤10	Monitoring	41
[alpha-(Alkyl(C16-18))-omega-hydroxypoly(oxyethane-1,2-diyl) or alpha-(alkenyl(C16-18))-omega-hydroxypoly(oxyethane-1,2-diyl)] (It is limited that the number-average molecular weight of the polymer is less than 1,000.)	≤10	Priority assessment	250
2-Aminoethanol	≤10	Priority assessment	107
1,1'-Oxydi(propan-2-ol)	≤10	Priority assessment	240
Methacrylic acid	≤10	Priority assessment	35
Cyclohexane	≤10	Priority assessment	96
Styrene	≤10	Priority assessment	47
Sodium 1-oxo-1lambda(5)-pyridine-2-thiolate	≤10	Priority assessment	251
alpha-(Alkyl(C6-18))-omega-hydroxypoly[oxyethane-1,2-diyl/oxy(methylethane-1,2-diyl)] (It is limited that the number-average molecular weight of the polymer is less than 1,000.)	≤10	Priority assessment	271
2-Butoxyethanol	≤10	Priority assessment	109
Acrylonitrile	≤10	Priority assessment	39
2-(2-Ethoxyethoxy)ethanol	≤10	Priority assessment	110
Formaldehyde	≤10	Priority assessment	25
1,4-Dioxane	≤10	Priority assessment	80
Ethylene oxide	≤10	Priority assessment	19
Ethylbenzene	≤10	Priority assessment	50
Acetaldehyde	≤10	Priority assessment	26
Toluene	≤10	Priority assessment	46
Cumene	≤10	Priority assessment	126

High Pressure Gas Control : Not available.

Law

15. Regulatory information

Explosives Control Law

None of the components are listed.

Law concerning prevention of pollution of the ocean : Not available.

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

None of the components are listed.

JSOH Carcinogen : Group 1

List of Specially Controlled Industrial Waste : Not listed

Japan inventory : At least one component is not listed.

Road law : Not available.

16. Other information

History

Date of issue/Date of revision : 16 February 2024

Date of previous issue : 6/27/2022

Version : 23

Prepared by : EHS

Key to abbreviations : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
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)
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
UN = United Nations

📌 Indicates information that has changed from previously issued version.

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