

SAFETY DATA SHEET



WaterShield Pro

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	: WaterShield Pro
Product code	: 60022
Product description	: Paint.
Product type	: Liquid.
Other means of identification	: Not available.

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

Use in coatings - Professional use

1.3 Details of the supplier of the safety data sheet

Jotun Boya Sanayi ve Ticaret A.Ş.
Maslak Mahallesi, Yelkovan Sokak
Maslak Square Sitesi No:2
İç Kapı No: 121
Sarıyer / İstanbul

Date of previous issue : No previous validation

1.4 Emergency telephone number

- a. IN CASE OF POISONING: National Poison Information Center (UZEM) – 114
b. GENERAL EMERGENCY CALL (Ambulance, Fire Department, Police, Gendarmerie, AFAD, etc.) – 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to regulation SEA: RG.-10/12/2020-31330

Flam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H335
STOT RE 2, H373 (hearing organs)
Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation SEA: RG.-10/12/2020-31330.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Warning.

SECTION 2: Hazards identification

Hazard statements	: H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (hearing organs) H411 - Toxic to aquatic life with long lasting effects.
<u>Precautionary statements</u>	
General	: Not applicable.
Prevention	: P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P260 - Do not breathe vapour.
Response	: P391 - Collect spillage. P314 - Get medical advice/attention if you feel unwell. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P302 + P352 - IF ON SKIN: Wash with plenty of water. P362 + P364 - Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
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.
Hazardous ingredients	: xylene ethylbenzene
Supplemental label elements	: Contains fatty acids, C18-unsatd., trimers, compds. with oleylamine and Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction.
Annex 17 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
<u>Special packaging requirements</u>	
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB :

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

: Mixture

Product/ingredient name	Identifiers	%	SEA: RG.-10/12/2020-31330	Type
xylene	EC: 215-535-7 CAS: 1330-20-7	≤41	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
talc (non-asbestos form)	EC: 238-877-9 CAS: 14807-96-6	≤25	Not classified.	[2]
ethylbenzene	EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤13	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
zinc oxide	EC: 215-222-5 CAS: 1314-13-2	≤3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
hydrocarbons, C9, aromatics	EC: 918-668-5 CAS: 128601-23-0	≤3	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
fatty acids, C18-unsatd., trimers, compds. with oleylamine	CAS: 147900-93-4	≤0.3	Acute Tox. 4, H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 2, H411	[1]
Fatty acids, tall-oil, compds. with oleylamine	CAS: 85711-55-3	≤0.3	Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 See Section 16 for the full text of the H statements declared above.	[1]

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, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures**4.1 Description of first aid measures****Eye contact**

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

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

SECTION 4: First aid measures

- waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- 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.

4.2 Most important symptoms and effects, both acute and delayed**Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Flammable liquid and vapour. 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.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
metal oxide/oxides

5.3 Advice for firefighters

SECTION 5: Firefighting 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised 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".

6.2 Environmental precautions

- : Avoid dispersal of spilt 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.

6.3 Methods and material 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. Absorb with an inert 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 the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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

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SECTION 7: Handling and storage

Advice on general occupational hygiene

: reuse container.
: 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.

Liquid paint and washing water with paint residues must not be emptied into drains or watercourses. It must be delivered to an approved local environmental protection station.

7.2 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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
See Technical Data Sheet / packaging for further information.

Regulation on the prevention of major industrial accidents and reduction of their effects - Reporting thresholds

Danger criteria		
Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonnes	50000 tonnes
E2	200 tonnes	500 tonnes

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
xylene	TR ISGGM OEL (Turkey, 10/2023) [Ksilen] Absorbed through skin. TWA 8 hours: 221 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 442 mg/m³. STEL 15 minutes: 100 ppm.
talc (non-asbestos form)	ACGIH TLV (United States, 1/2025) A4. TWA 8 hours: 2 mg/m³. Form: Respirable fraction.
ethylbenzene	TR ISGGM OEL (Turkey, 10/2023) Absorbed through skin. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm.
zinc oxide	ACGIH TLV (United States, 1/2025) TWA 8 hours: 2 mg/m³. Form: Respirable fraction. STEL 15 minutes: 10 mg/m³. Form: Respirable fraction.

Biological exposure indices

No exposure indices known.

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs**Product/ingredient name**

xylene

Result**DNEL - General population - Long term - Oral**

5 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Inhalation**65.3 mg/m³Effects: Local**DNEL - General population - Long term - Inhalation**65.3 mg/m³Effects: Systemic**DNEL - General population - Long term - Dermal**

125 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Long term - Dermal**

212 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Long term - Inhalation**221 mg/m³Effects: Local**DNEL - Workers - Long term - Inhalation**221 mg/m³Effects: Systemic**DNEL - General population - Short term - Inhalation**260 mg/m³Effects: Local**DNEL - General population - Short term - Inhalation**260 mg/m³Effects: Systemic**DNEL - Workers - Short term - Inhalation**442 mg/m³Effects: Local**DNEL - Workers - Short term - Inhalation**442 mg/m³Effects: SystemicTalc (Mg₃H₂(SiO₃)₄)**DNEL - General population - Short term - Inhalation**1.08 mg/m³Effects: Systemic**DNEL - General population - Long term - Inhalation**1.08 mg/m³Effects: Systemic

SECTION 8: Exposure controls/personal protection

	DNEL - General population - Short term - Inhalation 1.8 mg/m³ <u>Effects:</u> Local DNEL - General population - Long term - Inhalation 1.8 mg/m³ <u>Effects:</u> Local DNEL - Workers - Short term - Inhalation 2.16 mg/m³ <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 2.16 mg/m³ <u>Effects:</u> Systemic DNEL - General population - Long term - Dermal 2.27 mg/cm² <u>Effects:</u> Local DNEL - Workers - Short term - Inhalation 3.6 mg/m³ <u>Effects:</u> Local DNEL - Workers - Long term - Inhalation 3.6 mg/m³ <u>Effects:</u> Local DNEL - Workers - Long term - Dermal 4.54 mg/cm² <u>Effects:</u> Local DNEL - General population - Long term - Dermal 21.6 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Dermal 43.2 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Short term - Oral 160 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Long term - Oral 160 mg/kg bw/day <u>Effects:</u> Systemic DMEL - Workers - Long term - Inhalation 442 mg/m³ <u>Effects:</u> Local DMEL - Workers - Short term - Inhalation 884 mg/m³ <u>Effects:</u> Systemic DNEL - General population - Long term - Oral 1.6 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Long term - Inhalation 15 mg/m³ <u>Effects:</u> Systemic
ethylbenzene	

SECTION 8: Exposure controls/personal protection**DNEL - Workers - Long term - Inhalation**77 mg/m³Effects: Systemic**DNEL - Workers - Long term - Dermal**

180 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Short term - Inhalation**293 mg/m³Effects: Local

zinc oxide

DNEL - Workers - Long term - Dermal

83 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Long term - Inhalation**5 mg/m³Effects: Systemic**DNEL - General population - Consumers - Long term - Dermal**

83 mg/kg bw/day

Effects: Systemic**DNEL - General population - Consumers - Long term - Inhalation**2.5 mg/m³Effects: Systemic**DNEL - General population - Consumers - Long term - Oral**

0.83 mg/kg bw/day

Effects: Systemic

hydrocarbons, C9, aromatics

DNEL - General population - Long term - Oral

7.5 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Dermal**

7.5 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Long term - Dermal**

12.5 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Inhalation**32 mg/m³Effects: Systemic**DNEL - Workers - Long term - Inhalation**151 mg/m³Effects: Systemicfatty acids, C18-unsatd., trimers, compds.
with oleylamine**DNEL - General population - Long term - Oral**

0.012 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Dermal**

0.012 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Long term - Dermal**

0.024 mg/kg bw/day

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SECTION 8: Exposure controls/personal protection

	<u>Effects</u> : Systemic
Fatty acids, tall-oil, compds. with oleylamine	DNEL - General population - Long term - Oral 0.012 mg/kg bw/day <u>Effects</u> : Systemic DNEL - General population - Long term - Dermal 0.012 mg/kg bw/day <u>Effects</u> : Systemic DNEL - Workers - Long term - Dermal 0.024 mg/kg bw/day <u>Effects</u> : Systemic
<u>PNECs</u>	Result
Product/ingredient name	Fresh water
xylene	0.327 mg/l Marine 0.327 mg/l Sewage Treatment Plant 6.58 mg/l Fresh water sediment 12.46 mg/kg dwt Marine water sediment 12.46 mg/kg dwt Soil 2.31 mg/kg dwt
ethylbenzene	Fresh water 0.1 mg/l Marine 0.01 mg/l Sewage Treatment Plant 9.6 mg/l Fresh water sediment 13.7 mg/kg dwt Soil 2.68 mg/kg dwt Secondary Poisoning 20 mg/kg
zinc oxide	Fresh water 20.6 µg/l Marine 6.1 µg/l Sewage Treatment Plant 52 µg/l Fresh water sediment 117.8 mg/kg dwt

SECTION 8: Exposure controls/personal protection**Marine water sediment**

56.5 mg/kg dwt

Soil

35.6 mg/kg dwt

8.2 Exposure controls**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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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/face protection

- : Safety eyewear complying to EN 166 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: chemical splash goggles.

Skin protection**Hand protection**

- : There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. Wear suitable gloves tested to EN 374. Not recommended, gloves(breakthrough time) < 1 hour: butyl rubber (> 0.4 mm), PVC (> 0.5 mm) May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm) Recommended, gloves(breakthrough time) > 8 hours: 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm), nitrile rubber (> 0.75 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection

- : Use chemical-resistant protective suit / disposable overall. 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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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.

SECTION 8: Exposure controls/personal protection

- 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.
- 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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties**Appearance**

- Physical state** : Liquid.
- Colour** : Black, Blue.
- Odour** : Hydrocarbon.
- Odour threshold** : Not applicable.
- Melting point/freezing point** : Not applicable.
- Initial boiling point and boiling range** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Upper/lower flammability or explosive limits** : Not available.
- Flash point** : Closed cup: 25°C (77°F)
- Auto-ignition temperature** : Not available.

Ingredient name	°C	°F	Method
xylene	432	809.6	
ethylbenzene	432.22	810	

- Decomposition temperature** : Not available.
- pH** : Not applicable.
- Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): >20.5 mm²/s

Solubility(ies)

Media	Result
cold water	Not soluble
hot water	Not soluble

Partition coefficient: n-octanol/ water : Not applicable.

Vapour pressure : Not available.

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
ethylbenzene	9.30076	1.2				
xylene	6.7	0.89				
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	0	0				

Not available.

- Density** : 1.144 to 1.157 g/cm³
- Vapour density** : Not available.
- Explosive properties** : Not available.

SECTION 9: Physical and chemical properties**Oxidising properties** : Not available.**Particle characteristics****Median particle size** : Not applicable.**9.2 Other information**

No additional information.

SECTION 10: Stability and reactivity**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.**10.2 Chemical stability** : The product is stable.**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.**10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.**10.5 Incompatible materials** : Reactive or incompatible with the following materials:
oxidising materials**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.**Shelf life at 23 °C** : 48 month(s)**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Product/ingredient name**

xylene

Result**Rat - Oral - LD50**

4300 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes**Rabbit - Dermal - TDLo**

4300 mg/kg

Toxic effects: Skin After topical exposure - Corrosive**Rat - Inhalation - LC50 Vapour**

11 mg/l [4 hours]

ethylbenzene

Rat - Oral - LD50

3500 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes**Rabbit - Dermal - LD50**

>5000 mg/kg

Rat - Male - Inhalation - LC50 Vapour

11 mg/l [4 hours]

Conclusion/Summary [Product] : Not available.**Acute toxicity estimates**

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SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
WaterShield Pro	N/A	3329.6	N/A	25.0	N/A
xylene	4300	1100	N/A	11	N/A
ethylbenzene	3500	N/A	N/A	11	N/A
fatty acids, C18-unsatd., trimers, compds. with oleylamine	500	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name	Result
xylene	Rat - Skin - Mild irritant Duration of treatment/exposure: 8 hours Amount/concentration applied: 60 microliters
zinc oxide	Rabbit - Skin - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
xylene	Rabbit - Eyes - Mild irritant Amount/concentration applied: 87 milligrams
zinc oxide	Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
Fatty acids, tall-oil, compds. with oleylamine	Mammal - species unspecified - Eyes - Irritant
Conclusion/Summary [Product] : Not available.	

Respiratory corrosion/irritation

Not available.
Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name	Result
fatty acids, C18-unsatd., trimers, compds. with oleylamine	Mammal - species unspecified - skin Result: Sensitising
Fatty acids, tall-oil, compds. with oleylamine	Mammal - species unspecified - skin Result: Sensitising

Skin

Conclusion/Summary [Product] : Not available.	
Ingredient name	Conclusion/Summary
fatty acids, C18-unsatd., trimers, compds. with oleylamine	May cause an allergic skin reaction.
Fatty acids, tall-oil, compds. with oleylamine	May cause an allergic skin reaction.

Respiratory

SECTION 11: Toxicological information**Conclusion/Summary [Product]** : Not available.**Germ cell mutagenicity**

Not available.

Conclusion/Summary [Product] : Not available.**Carcinogenicity**

Not available.

Conclusion/Summary [Product] : Not available.**Reproductive toxicity**

Not available.

Conclusion/Summary [Product] : Not available.**Specific target organ toxicity (single exposure)****Product/ingredient name**xylene
hydrocarbons, C9, aromatics**Result**STOT SE 3, H335 (Respiratory tract irritation)
STOT SE 3, H335 (Respiratory tract irritation)
STOT SE 3, H336 (Narcotic effects)**Specific target organ toxicity (repeated exposure)****Product/ingredient name**ethylbenzene
fatty acids, C18-unsatd., trimers, compds.
with oleylamine
Fatty acids, tall-oil, compds. with oleylamine**Result**STOT RE 2, H373 (hearing organs)
STOT RE 2, H373
STOT RE 2, H373**Aspiration hazard****Product/ingredient name**xylene
ethylbenzene
hydrocarbons, C9, aromatics**Result**ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1**Information on likely routes of exposure**

Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : May cause respiratory irritation.

Skin contact : Causes skin irritation.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing

Skin contact : Adverse symptoms may include the following:
irritation
redness

SECTION 11: Toxicological information**Ingestion** : No specific data.Delayed and immediate effects as well as chronic effects from short and long-term exposure**Short term exposure****Potential immediate effects** : Not available.**Potential delayed effects** : Not available.**Long term exposure****Potential immediate effects** : Not available.**Potential delayed effects** : Not available.Potential chronic health effects

Not available.

Conclusion/Summary [Product] : 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.Other information

Not available.

SECTION 12: Ecological information**12.1 Toxicity****Product/ingredient name****Result**

xylene

Acute - LC50 - Marine waterCrustaceans - Daggerblade grass shrimp - *Palaemonetes pugio*
8500 µg/l [48 hours]
Effect: Mortality**Acute - LC50 - Fresh water**Fish - Fathead minnow - *Pimephales promelas*
Age: 31 days; Size: 18.4 mm; Weight: 0.077 g
13400 µg/l [96 hours]
Effect: Mortality

ethylbenzene

Acute - EC50Daphnia
2.93 mg/l [48 hours]
Effect: Intoxication**Acute - LC50**Fish
4.2 mg/l [96 hours]
Effect: Mortality**Acute - EC50 - Marine water**Algae - Diatom - *Skeletonema costatum*
7700 µg/l [96 hours]
Effect: Population

zinc oxide

Chronic - NOEC - Fresh waterAlgae - Green algae - *Pseudokirchneriella subcapitata* -
Exponential growth phase
0.02 mg/l [72 hours]
Effect: Growth

SECTION 12: Ecological information**Acute - LC50 - Fresh water**

US EPA

Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*Weight: 0.78 g

1.1 ppm [96 hours]

Effect: Mortality

hydrocarbons, C9, aromatics

Acute - LC50

Fish

<10 mg/l [96 hours]

Acute - EC50

Daphnia

<10 mg/l [48 hours]

Acute - IC50

Algae

<10 mg/l [72 hours]

Conclusion/Summary [Product] : Not available.**12.2 Persistence and degradability**

Not available.

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
ethylbenzene	-	-	Readily
zinc oxide	-	-	Not readily
hydrocarbons, C9, aromatics	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
xylene	3.12	8.1 to 25.9	Low
ethylbenzene	3.6	-	Low
zinc oxide	-	28960	High
hydrocarbons, C9, aromatics	-	10 to 2500	High

12.4 Mobility in soil**Soil/water partition coefficient** : Not available.**Mobility** : Not available.**12.5 Results of PBT and vPvB assessment**

SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
xylene	No	N/A	No	No	No	N/A	No
talc (non-asbestos form)	No	No	No	No	No	No	No
ethylbenzene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
zinc oxide	No	No	No	No	No	No	No
hydrocarbons, C9, aromatics	No	N/A	No	No	No	N/A	No
fatty acids, C18-unsatd., trimers, compds. with oleylamine	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Fatty acids, tall-oil, compds. with oleylamine	N/A	N/A	N/A	Yes	N/A	N/A	N/A

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods**Product**

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : Yes.

Waste list

Waste code	Waste code definition
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint	Paint	Paint. Marine pollutant (zinc oxide)	Paint
14.3 Transport hazard class(es)	3  	3  	3  	3 

SECTION 14: Transport information

14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information**ADR/RID**

- : **Hazard identification number** 30
Viscous liquid exception This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, 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 according to 2.2.3.1.5.2.
Tunnel code (D/E)

ADN

- : **Viscous liquid exception** This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, 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 according to 2.2.3.1.5.2.

IMDG

- : **Emergency schedules** F-E, S-E
Viscous liquid exception This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, 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 according to 2.3.2.5.

IATA

- : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Marking

- : The environmental hazardous / marine pollutant mark is only applicable for packages containing more than 5 litres for liquids and 5 kg for solids.

14.6 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.

14.7 Transport in bulk according to IMO instruments

- : Not available.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Turkey Regulation No. 30105, KKDIK****Annex 14 - List of substances subject to authorization****Annex 14**

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex 17 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

- : Not applicable.

Ozone depleting substances

Not listed.

Regulation on the prevention of major industrial accidents and reduction of their effects

This product is controlled under the Regulation on the prevention of major industrial accidents and reduction of their effects.

SECTION 15: Regulatory information**Danger criteria****Category**P5c
E2**EU regulations****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

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.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
 EUH statement = SEA-specific Hazard statement
 N/A = Not available
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 SGG = Segregation Group
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to regulation SEA: RG.-10/12/2020-31330

SECTION 16: Other information

Classification	Justification
Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (hearing organs) Aquatic Chronic 2, H411	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [SEA/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of printing : 17.09.2026
Date of issue/ Date of revision : 17.09.2026
Date of previous issue : No previous validation
Version : 1

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Notice to reader

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Users should always consult Jotun for specific guidance on the general suitability of this product for their

WaterShield Pro

SECTION 16: Other information

needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.