Conforms to UN GHS (Rev.7) (2017)

# SAFETY DATA SHEET



## Jotashield TileGlo

## Section 1. Identification

Product identifier	: Jotashield TileGlo
Product code	: 45442
Product type	: Liquid.
Product description	: Waterborne paint.
Other means of identification	: Not available.

#### Recommended use of the chemical and restrictions on use

Use in coatings - Consumer use: Apply this product only as specified on the label.

Supplier's details	:	Jotun India Pvt. Ltd. Fulcrum, A wing – 601(II) / 602, Next to Hyatt Regency, Sahar Road, Andheri – East, Mumbai – 99 India
		Manufacturing site address:
		Jotun India Pvt. Ltd. Plot No. D-280, Ranjangaon MIDC, Village - Karegaon, Taluka - Shirur, Dist- Pune, PIN: 412220 India
		SDSJotun@jotun.com
Emergency telephone number	:	Jotun India Pvt Ltd +91 2138 671300

## Section 2. Hazard identification

Classification of the substance or mixture	<ul> <li>SKIN SENSITISATION - Category 1 GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 2 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1</li> </ul>
GHS label elements Hazard pictograms	
Signal word	: Danger.
Date of issue/Date of revision	: 19.12.2023 Date of previous issue : No previous validation Version : 1 1/12

## Section 2. Hazard identification

Hazard statements	:	H317 - May cause an allergic skin reaction. H340 - May cause genetic defects. H351 - Suspected of causing cancer. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements		
General	:	P102 - Keep out of reach of children.
Prevention	:	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapour.</li> </ul>
Response	:	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> </ul>
Storage	:	P405 - Store locked up.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not	:	None known.

result in classification

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	%	CAS number
diuron	≤3	330-54-1
Alcohols, C16-18 and C18-unsatd., ethoxylated	≤0.3	68920-66-1
carbendazim (iso)	<0.3	10605-21-7
2-octyl-2h-isothiazol-3-one (OIT)	≤0.1	26530-20-1
C(M)IT/MIT (3:1)	<0.003	55965-84-9

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

## Section 4. First aid measures

<b>Description of necessary fi</b>	rst 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 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 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## Section 4. First aid measures

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.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. 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 e	ffects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sy	<u>imptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate	medical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>

**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)

## Section 5. Firefighting 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 very 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.

## Section 5. Firefighting measures

	-	
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides	
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incide there is a fire. No action shall be taken involving any personal risk or without suitable training.	nt if
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.	

## Section 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 spilt material. 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".
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.
Methods and material for con	nta	inment 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 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. 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 spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

Protective	e meas	sures

: 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. 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 ingest. Avoid breathing vapour or mist. 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.

## Section 7. Handling and storage

	U	6
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, including any incompatibilities	:	Store in accordance with local regulations. <b>Notes on joint storage</b> Keep away from: oxidising agents, strong alkalis, strong acids. <b>Additional information on storage conditions</b> Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
		Leaders for first and for a state of the

See Technical Data Sheet / packaging for further information.

## Section 8. Exposure controls/personal protection

Control parameters						
Occupational exposure limit None.	t <u>s</u>					
Biological exposure indices No exposure indices known.						
Appropriate engineering controls	enclosure	es, local exhaus	t ventilation or	s, gas, vapour or mist, r r other engineering con ow any recommended	trols to keep	
Environmental exposure controls	they com cases, fu	ply with the requine scrubbers, f	uirements of e filters or engin	cess equipment should nvironmental protection eering modifications to emissions to acceptab	n legislation. the process	
Individual protection measure	<u>es</u>					
Hygiene measures	eating, sr Appropria Contamir contamin	noking and usir Ite techniques s Iated work cloth	ng the lavatory should be used ning should no efore reusing.	ughly after handling che and at the end of the w d to remove potentially t be allowed out of the w Ensure that eyewash s potation.	vorking period contaminated workplace. W	d. I clothing. ∕ash
Eye/face protection	assessm gases or	ent indicates thi dusts. If contac e assessment i	s is necessary ct is possible, t	21-1:2022 should be use / to avoid exposure to li the following protection her degree of protectior	quid splashe should be wo	s, mists, orn,
Skin protection						
Hand protection	resistanc The brea The instru- storage, I Gloves sl material. Always e	e to any individu kthrough time n uctions and info naintenance ar nould be replace	ual or combina nust be greate rmation provio id replacemen ed regularly ar	bination of materials that ation of chemicals. In than the end use time ded by the glove manufa the must be followed. Ind if there is any sign of m defects and that they	of the produ acturer on us damage to t	ct. e, he glove
		ormance or effe and poor mainte		ne glove may be reduce	d by physical	/chemical
Date of issue/Date of revision	: 19.12.20	23 Date of previ	ous issue	: No previous validation	Version :1	5/12

## Section 8. Exposure controls/personal protection

		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 ISO 374-1:2016. Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber (> 0.75 mm) May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 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	:	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	:	If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387(as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

# Section 9. Physical and chemical properties and safety characteristics

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

Appearance				
Physical state	: Lic	quid.		
Colour	: W	White.		
Odour	: Ch	Characteristic.		
Odour threshold	: No	Not applicable.		
рН	: No	ot applicable.		
Melting point/freezing point	: 0			
Boiling point	: Lo	west known value: 100°C (212°F) (water). Weighted average: 104.1°C (219.4°F)		
Flash point	: No	ot available.		
Evaporation rate	: 0.3	36 (water) compared with butyl acetate		
Flammability	: No	ot applicable.		
Lower and upper explosion limit/flammability limit	: 0.6	0.6 - 4.2%		
Vapour pressure		Highest known value: 2.3 kPa (17.5 mm Hg) (at 20°C) (water). Weighted average: 2.24 kPa (16.8 mm Hg) (at 20°C)		
Vapour density		Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol).		
Density	: 1.1	123 g/cm³		
Solubility(ies)	:			
Media		Result		
cold water hot water		Easily soluble Easily soluble		
Partition coefficient: n- octanol/water	: No	t available.		
Auto-ignition temperature	: No	ot applicable.		

6/12

# Section 9. Physical and chemical properties and safety characteristics

Decomposition temperature	1	Not available.
Viscosity	1	Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
Particle characteristics		
Median particle size	:	Not applicable.

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
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: oxidising agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## Section 11. Toxicological information

#### Information on toxicological effects

<u>Acu</u>	te	tox	<u>icity</u>
			_

Product/ingredient name	Result	Species	Dose	Exposure
2-octyl-2h-isothiazol-3-one (OIT)	LD50 Dermal	Rabbit	690 mg/kg	-
	LD50 Dermal	Rabbit	690 mg/kg	-
	LD50 Oral	Rat	550 mg/kg	-
C(M)IT/MIT (3:1)	LD50 Oral	Rat	53 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Alcohols, C16-18 and C18-unsatd., ethoxylated		Mammal - species unspecified	-	-	-

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
2-octyl-2h-isothiazol-3-one (OIT)	skin	Mammal - species unspecified	Sensitising
Č(M)IT/MIT (3:1)	skin	Mammal - species unspecified	Sensitising

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

# Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Product/ingredient name		Route of exposure	Target organs
diuron	Category 2	-	-

#### Aspiration hazard

Not available.

Information on likely routes is Not available. Potential acute health effects Eye contact is No known significant effects or critical hazards. Inhalation is No known significant effects or critical hazards. Skin contact is May cause an allergic skin reaction. Ingestion is No known significant effects or critical hazards. Symptoms related to the physical. chemical and toxicological characteristics Eye contact is No specific data. Inhalation is No specific data. Inhalation is No specific data. Skin contact is Adverse symptoms may include the following: irritation redness Ingestion is No specific data. Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure Potential delayed effects is Not available. effects Potential delayed effects is Not available. effects Potential chronic health effects Not available. effects Not available. effects Not available. effects Not available. effects Not available. effects Not available. effects Not available. effects Not available. effects Not available. effects N			
Eye contact       : No known significant effects or critical hazards.         Inhalation       : No known significant effects or critical hazards.         Skin contact       : May cause an allergic skin reaction.         Ingestion       : No known significant effects or critical hazards.         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       : No specific data.         Inhalation       : No specific data.         Inhalation       : No specific data.         Skin contact       : Adverse symptoms may include the following: irritation redeness         Ingestion       : No specific data.         Delayed and immediate effects as well as chronic effects from short and long-term exposure         Short term exposure       Potential immediate iffects : Not available.         effects       : Not available.         Long term exposure       Potential delayed effects : Not available.         Potential delayed effects       : Not available.         Potential delayed effects       : Not available.         Potential immediate       : Not available.         Potential chronic health effects       : Not available.         Potential chronic health effects       : Not available.         General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. <th></th> <th>1</th> <th>Not available.</th>		1	Not available.
Inhalation:No known significant effects or critical hazards.Skin contact:May cause an allergic skin reaction.Ingestion:No known significant effects or critical hazards.Symptoms related to the physical. chemical and toxicological characteristicsEye contact:No specific data.Inhalation:No specific data.Skin contact:Adverse symptoms may include the following: irritation rednessIngestion:No specific data.Delayed and immediate effects as well as chronic effects from short and long-term exposurePotential immediate:Not available.Long term exposure Potential delayed effects:Not available.Potential delayed effects:Not available.Potential delayed effects:Not available.Potential delayed effects:Not available.Potential chronic health effects:Not available.Potential chronic health effects:Not available.Potential chronic health effects:Suspected of causing cancer. Risk of cancer depends on duration and level of to very low levels.Carcinogenicity:May cause genetic defects.	Potential acute health effects	2	
Skin contact       :       May cause an allergic skin reaction.         Ingestion       :       No known significant effects or critical hazards.         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 redness         Ingestion       :       No specific data.         Delayed and immediate effects as well as chronic effects from short and long-term exposure         Short term exposure       Potential immediate         Potential delayed effects       :       Not available.         effects       :       Not available.         Potential delayed effects       :       Not available.         effects       :       Not available.         Potential delayed effects       :       Not available.         Potential chronic health effects       :       Not available.         General       :       :       Once sens	Eye contact	:	No known significant effects or critical hazards.
Ingestion       : No known significant effects or critical hazards.         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 redness         Ingestion       : No specific data.         Delayed and immediate effects as well as chronic effects from short and long-term exposure         Short term exposure       Potential immediate         Potential delayed effects       : Not available.         effects       Potential delayed effects         Potential delayed effects       : Not available.         effects       : Not available.         Potential chronic health effects       : Not available.         General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Inhalation	:	No known significant effects or critical hazards.
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 redness         Ingestion       : No specific data.         Delayed and immediate effects as well as chronic effects from short and long-term exposure         Short term exposure         Potential immediate       : Not available.         effects       : Not available.         Potential delayed effects       : Not available.         effects       : Not available.         Potential delayed effects       : Not available.         effects       : Not available.         Potential delayed effects       : Not available.         Potential delayed effects       : Not available.         Potential chronic health effects       : Not available.         Potential chronic health effects       : Not available.         Potential chronic health effects       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Skin contact	:	May cause an allergic skin reaction.
Eye contact       : No specific data.         Inhalation       : No specific data.         Skin contact       : Adverse symptoms may include the following: irritation redness         Ingestion       : No specific data.         Delayed and immediate effects as well as chronic effects from short and long-term exposure         Potential immediate       : Not available.         effects       : Not available.         Potential delayed effects       : Not available.         Long term exposure       : Not available.         Potential delayed effects       : Not available.         Potential delayed effects       : Not available.         Potential delayed effects       : Not available.         Potential chronic health effects       : Not available.         Potential chronic health effects       : Not available.         Carcinogenicity       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Ingestion	1	No known significant effects or critical hazards.
Inhalation:No specific data.Skin contact:Adverse symptoms may include the following: irritation rednessIngestion:No specific data.Delayed and immediate effectsas well as chronic effects from short and long-term exposureShort term exposure.Potential immediate:Not available.effects.Not available.Potential delayed effects:Not available.Potential immediate:Not available.Potential delayed effects:Not available.Potential delayed effects:Not available.Potential delayed effects:Not available.Potential chronic health effects:Not available.Potential chronic health effects:Not available.Reneral::Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity::Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.Mutagenicity:May cause genetic defects.	Symptoms related to the phy	<u>sio</u>	cal, chemical and toxicological characteristics
Skin contact       : Adverse symptoms may include the following: irritation redness         Ingestion       : No specific data.         Delayed and immediate effects as well as chronic effects from short and long-term exposure         Short term exposure         Potential immediate       : Not available.         effects       : Not available.         Potential delayed effects       : Not available.         effects       : Not available.         Potential delayed effects       : Not available.         effects       : Not available.         Potential delayed effects       : Not available.         Potential delayed effects       : Not available.         Potential chronic health effects       : Not available.         General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Eye contact	:	No specific data.
irritation redness         Ingestion       : No specific data.         Delayed and immediate effects as well as chronic effects from short and long-term exposure         Short term exposure         Potential immediate       : Not available.         effects       : Not available.         Long term exposure       Potential delayed effects         Potential immediate       : Not available.         effects       : Not available.         Potential delayed effects       : Not available.         effects       : Not available.         Potential chronic health effects       : Not available.         Potential chronic health effects       : Not available.         General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Inhalation	:	No specific data.
Delayed and immediate effects as well as chronic effects from short and long-term exposure         Short term exposure         Potential immediate       : Not available.         effects         Potential delayed effects       : Not available.         Long term exposure         Potential immediate       : Not available.         Long term exposure         Potential immediate       : Not available.         effects         Potential delayed effects       : Not available.         effects         Potential delayed effects       : Not available.         Potential chronic health effects         Not available.         General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Skin contact	:	irritation
Short term exposure         Potential immediate       : Not available.         effects         Potential delayed effects       : Not available.         Long term exposure         Potential immediate       : Not available.         effects         Potential delayed effects       : Not available.         effects         Potential delayed effects       : Not available.         Potential chronic health effects         Not available.         General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Ingestion	:	No specific data.
Potential immediate       : Not available.         effects       Potential delayed effects       : Not available.         Long term exposure       Potential immediate       : Not available.         Potential delayed effects       : Not available.       effects         Potential delayed effects       : Not available.       Potential chronic health effects         Potential chronic health effects       : Not available.       Potential chronic health effects         Not available.       General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Delayed and immediate effect	:ts	as well as chronic effects from short and long-term exposure
effects       Potential delayed effects : Not available.         Long term exposure         Potential immediate : Not available.         effects         Potential delayed effects : Not available.         Potential delayed effects : Not available.         Potential chronic health effects         Not available.         General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Short term exposure		
Long term exposure       Potential immediate       : Not available.         effects       : Not available.         Potential delayed effects       : Not available.         Potential chronic health effects       : Not available.         Not available.       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.		:	Not available.
Potential immediate effects       : Not available.         effects       Potential delayed effects       : Not available.         Potential chronic health effects       Not available.         Not available.       General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Potential delayed effects	:	Not available.
effects         Potential delayed effects       : Not available.         Potential chronic health effects         Not available.         General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Long term exposure		
Potential chronic health effects         Not available.         General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.		:	Not available.
Not available.         General       : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.         Mutagenicity       : May cause genetic defects.	Potential delayed effects	1	Not available.
General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.Mutagenicity: May cause genetic defects.	Potential chronic health effe	ect	<u>s</u>
Carcinogenicityto very low levels.Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.Mutagenicity: May cause genetic defects.	Not available.		
Mutagenicity       : May cause genetic defects.	General	1	
	Carcinogenicity	1	
<b>Reproductive toxicity</b> : No known significant effects or critical hazards.	Mutagenicity	:	May cause genetic defects.
	Reproductive toxicity	1	No known significant effects or critical hazards.

#### Numerical measures of toxicity Acute toxicity estimates

# 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)
Jotashield TileGlo	58786.1	N/A	N/A	N/A	N/A
diuron	1017	N/A	N/A	N/A	N/A
Alcohols, C16-18 and C18-unsatd., ethoxylated	500	N/A	N/A	N/A	N/A
2-octyl-2h-isothiazol-3-one (OIT)	125	311	N/A	N/A	0.27
C(M)IT/MIT (3:1)	53	50	N/A	0.5	N/A

# Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
diuron	Acute EC50 0.022 mg/l	Algae	72 hours
	Acute EC50 1.4 mg/l	Daphnia	48 hours
	Acute LC50 14.7 mg/l	Fish	96 hours
	Chronic NOEC 0.0032 mg/l	Algae	96 hours
	Chronic NOEC 0.56 mg/l	Daphnia	21 days
	Chronic NOEC 0.41 mg/l	Fish	28 days
Alcohols, C16-18 and C18-unsatd., ethoxylated	Acute LC50 1.3 mg/l	Fish	96 hours
carbendazim (iso)	Acute EC50 19.0562 mg/l Fresh water	Algae - Scenedesmus acutus var. acutus	96 hours
	Acute EC50 4948 µg/l Fresh water	Crustaceans - Simocephalus vetulus - Sub-adult	48 hours
	Acute EC50 20 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Chronic NOEC 37.5 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
2-octyl-2h-isothiazol-3-one (OIT)	Acute EC50 0.084 mg/l	Algae - Scenedesmus subspicatus	72 hours
( )	Acute EC50 0.32 mg/l	Daphnia	48 hours
	Acute LC50 0.047 mg/l	Fish	96 hours
C(M)IT/MIT (3:1)	Acute EC50 0.048 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.0052 mg/l	Algae - Skeletonema costatum	48 hours
	Acute EC50 0.1 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.22 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC 0.00064 mg/l	Algae - Skeletonema costatum	48 hours
	Chronic NOEC 0.0012 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.004 mg/l	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.098 mg/l	Fish - Oncorhynchus mykiss	28 days

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
diuron carbendazim (iso) C(M)IT/MIT (3:1)		-	Not readily Not readily Not readily

#### **Bioaccumulative potential**

## Section 12. Ecological information

	0		
Product/ingredient name	LogPow	BCF	Potential
diuron Alcohols, C16-18 and C18-unsatd., ethoxylated carbendazim (iso) 2-octyl-2h-isothiazol-3-one	2.84 4.2 1.52 2.45	5.2 - 2.51 -	low high low low
(OIT) C(M)IT/MIT (3:1)	-	3.16	low

#### <u>Mobility in soil</u>

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods : 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. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN3082	UN3082	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (diuron)	Environmentally hazardous substance, liquid, n.o.s. (diuron). Marine pollutant (diuron)	Environmentally hazardous substance, liquid, n.o.s. (diuron)
Transport hazard class(es)	9	9	e e
Packing group	Ш	Ш	Ш
Environmental hazards	Yes.	Yes.	Yes.
Additional informat	ion		
<ul> <li>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.</li> </ul>			
IMDG	<ul> <li>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.</li> <li>Emergency schedules F-A, S-F</li> </ul>		

## Section 14. Transport information

•	
ΙΑΤΑ	: 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.
ADR/RID	<ul> <li>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.</li> <li><u>Hazard identification number</u> 90</li> <li><u>Tunnel code</u> (-)</li> </ul>
Special precautions for user	: <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

## Section 15. Regulatory information

#### 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.

## Section 16. Other information

<u>History</u>	
Date of printing	: 19.12.2023
Date of issue/Date of revision	: 19.12.2023
Date of previous issue	: No previous validation
Version	: 1
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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</li> </ul>
Procedure used to derive th	a classification

Procedure used to derive the classification

## Section 16. Other information

Classification	Justification
SKIN SENSITISATION - Category 1	Calculation method
GERM CELL MUTAGENICITY - Category 1B	Calculation method
CARCINOGENICITY - Category 2	Calculation method
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	Calculation method

References

: Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

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