

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## KATHON™ FP 1.5 Biocide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.04.2024	203000021543	Country / Language: GB / 6N (EN)

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

#### 1.1 Product identifier

Trade name : KATHON™ FP 1.5 Biocide  
Product code : 000000000062632577

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

Use of the Sub-  
stance/Mixture : Biocide for industrial application

#### 1.3 Details of the supplier of the safety data sheet

Company : LANXESS Limited  
Tenax Road, Trafford Park  
M17 1WT, Manchester  
Great Britain

Responsible Department : +49 221 8885 2288  
infosds@lanxess.com

#### 1.4 Emergency telephone number

Emergency telephone number : For 24/7 multilingual emergency please call  
CHEMTREC EMEA: +44 20 3885 0382 and mention CCN  
1001748.

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Skin corrosion, Sub-category 1C	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

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### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms :



Signal word : Danger

Hazard statements :  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH071 Corrosive to the respiratory tract.

Precautionary statements :  
**Prevention:**  
P261 Avoid breathing mist or vapours.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

Hazardous components which must be listed on the label:

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9  613-167-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	>= 1 - < 2.5

For explanation of abbreviations see section 16.

### Specific Concentration limits (Regulation EC) No 1272/2008)

Chemical name	CAS-No. EC-No.	Classification	Concentration (%)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	Skin Corr.1C; H314 Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1A; H317 Eye Dam.1; H318	>= 0.6 % 0.06 - < 0.6 % 0.06 - < 0.6 % >= 0.0015 % >= 0.6 %

For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Consult a physician.  
Move out of dangerous area.  
Do not leave the victim unattended.  
Show this safety data sheet to the doctor in attendance.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- If inhaled : Move to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
If symptoms persist, call a physician.
- In case of skin contact : IMMEDIATELY get under a safety shower.  
Remove contaminated clothing.  
Wash off with soap and water.  
Immediate medical attention is required.  
Wash contaminated clothing before re-use.  
Do not take clothing home to be laundered.  
Discard contaminated shoes, belts, and other articles made of leather.
- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.  
Immediate medical attention is required.
- If swallowed : Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
Drink 1 or 2 glasses of water.  
IMMEDIATELY see a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : May cause an allergic skin reaction.  
Causes serious eye damage.  
Corrosive to the respiratory tract.  
Causes severe burns.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : MATERIAL IS SEVERELY IRRITATING. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage.
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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
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Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : No information available.

Hazardous combustion products : Combustion generates toxic fumes of the following:

Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Metal oxides  
Sulphur oxides  
Halogenated compounds

### 5.3 Advice for firefighters

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

Further information : Isolate the area immediately for at least 100 meters in all directions.  
Cool containers/tanks with water spray.  
Minimize exposure.  
Do not breathe fumes.  
Contain run-off.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear respiratory protection.  
MATERIAL IS CORROSIVE. Protective clothing, including chemical splash goggles, nitrile or butyl rubber full length gloves, rubber apron, or clothing made of nitrile or butyl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of this material. If material comes in contact with the skin during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See SECTION 4, First Aid Measures, for further information.

### 6.2 Environmental precautions

Environmental precautions : Do not allow material to contaminate ground water system.  
Prevent product from entering drains.

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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Adsorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated materials to suitable containers for disposal. Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water. Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient. Let stand for 30 minutes. Flush the spill area with copious amounts of water to chemical sewer (if in accordance with local procedures, permits and regulations). DO NOT add deactivation solution to the waste pail to deactivate the adsorbed material. See Section 13, "Disposal Considerations", for information regarding the disposal of contained materials.

### 6.4 Reference to other sections

For personal protection see section 8.  
For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : This material is corrosive. See SECTION 8, Exposure Controls/Personal Protection, prior to handling. Do not handle material near food, feed or drinking water.

Hygiene measures : General industrial hygiene practice. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a cool, well-ventilated place. The product as supplied may evolve gas (largely carbon dioxide) slowly. To prevent the buildup of pressure the product is packaged in specially vented containers, where necessary. Keep this product in the original container when not in use. Container must be stored and transported in an upright position to prevent spilling the contents through the vent, where fitted. Do not store this material in containers made of the following: steel Do not store near food, feed or fertilizers.

Further information on storage conditions : CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all (M)SDS and label warnings even after container is emptied. Expiration date based only on retention of >95% actives during storage at 20°C-25°C (68°F-77°F).

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Recommended storage temperature : 1 - 55 °C

Further information on storage stability : Stable under recommended storage conditions.

### 7.3 Specific end use(s)

Specific use(s) : No data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering measures

Use engineering controls to maintain airborne level below exposure limit requirements or guidelines.

If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation.

Local exhaust ventilation may be necessary for some operations.

#### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection

Remarks : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber - IIR Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Neoprene Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride - PVC NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Skin and body protection : Wear as appropriate:  
Chemical resistant apron  
Complete suit protecting against chemicals

Respiratory protection : Use appropriate respiratory protection if there is a risk of exceeding any exposure limits.

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If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. The following should be effective types of air-purifying respirators:

Filter type	:	Combined particulates and organic vapour type (A-P)
Protective measures	:	Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Physical state	:	liquid
Colour	:	colourless to light-yellow, clear
Odour	:	aromatic
Odour Threshold	:	No data available
Freezing point	:	< -20 °C
Boiling point/boiling range	:	229.00 °C (1,013 hPa) Solvent
Flammability	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	138 °C Method: Pensky-Martens closed cup
Ignition temperature	:	No data available

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Decomposition temperature : No data available

pH : 4.4  
Concentration: 100 %

Viscosity

    Viscosity, dynamic : 97.800 mPa,s (25.00 °C)

    Viscosity, kinematic : No data available

Solubility(ies)

    Water solubility : completely soluble

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : log Pow: ca. -0.486 - 0.401

Vapour pressure : 0.08 hPa  
solvent-like

Relative density : 1.044 (25 °C)

Density : 1.04 g/cm<sup>3</sup> (20 °C)

Relative vapour density : 0.6500  
(Air = 1.0)

### 9.2 Other information

Explosives : No data available

Oxidizing properties : No data available

Self-ignition : No data available

Evaporation rate : < 1.00  
(Butyl Acetate=1.0)

Surface tension : No data available

Molecular weight : No data available

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### 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

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Polymerization will not occur.

#### 10.4 Conditions to avoid

Conditions to avoid : No data available

#### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents  
Amines  
Reducing agents  
mercaptan

#### 10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
hydrogen chloride

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Not classified based on available information.

##### Product:

Acute oral toxicity : LD50 (Rat, female): 3,723 mg/kg

LD50 (Rat, male): 3,600 mg/kg

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Acute toxicity estimate: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit, female): > 3,600 mg/kg

LD50 (Rabbit, male): 3,500 mg/kg

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### Components:

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Acute oral toxicity : LD50 (Rat): 64 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.33 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 87.12 mg/kg

### **Skin corrosion/irritation**

Causes severe burns.

### Components:

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Result : Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Remarks : Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### Product:

Species : Rabbit

Result : Irreversible effects on the eye

Remarks : In eye damage/eye irritation tests conducted in compliance with GLP standards the product caused effects which were not reversible within 21 days. Based on these observations the product is considered as causing serious damage to eyes.

### Components:

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Remarks : Risk of serious damage to eyes.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

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### Respiratory sensitisation

Not classified based on available information.

#### Product:

Exposure routes : Skin contact  
Result : Causes sensitisation.

Exposure routes : Inhalation  
Remarks : For respiratory sensitization:  
No relevant data found.

#### Components:

##### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.  
GLP : Yes

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitiser, sub-category 1A.  
GLP : Yes

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

### Carcinogenicity

Not classified based on available information.

#### Components:

##### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

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### Reproductive toxicity

Not classified based on available information.

### Components:

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Reproductive toxicity - Assessment : No toxicity to reproduction

### STOT - single exposure

Corrosive to the respiratory tract.

### Components:

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Assessment : Material is corrosive. Upper respiratory tract irritation or corrosivity may be expected.

### STOT - repeated exposure

Not classified based on available information.

### Components:

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Aspiration toxicity

Not classified based on available information.

### Components:

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

No aspiration toxicity classification

### Further information

#### Product:

Remarks : No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.19 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 0.16 mg/l  
Exposure time: 48 h  
Test Type: flow-through test  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.027 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- NOEC (Skeletonema costatum (marine diatom)): 0.0014 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test
- EC50 (Skeletonema costatum (marine diatom)): 0.0063 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 100
- Toxicity to fish (Chronic toxicity) : NOEC: 0.05 mg/l  
Exposure time: 14 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test
- NOEC: 0.02 mg/l  
Exposure time: 36 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test
- M-Factor (Chronic aquatic toxicity) : 100

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toxicity)

### 12.2 Persistence and degradability

#### Components:

#### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Biodegradability : Result: Biodegradation (aquatic metabolism):5-Chloro-2-methyl-4-isothiazolin-3-one (CMIT): t ½ anaerobic = 0.2 day. t ½ aerobic = 0.38 – 1.3 day2-Methyl-4-isothiazolin-3-one(MIT): t ½ aerobic = 0.38 – 1.4 day  
Remarks: Considered rapidly degradable in the environment.

Biodegradation: < 50 %  
Exposure time: 10 d

Result: Biodegradable  
Biodegradation: 62 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

Biodegradation: 98 %  
Exposure time: 48 d  
Method: Simulation study  
Test substance: CAS 2682-20-4 (2-methylisothiazol-3(2H)-one)  
Remarks: Considered rapidly degradable in the environment.

Result: Not readily biodegradable.  
Biodegradation: 50 %  
Exposure time: 29 d  
Method: OECD Test Guideline 301B  
Test substance: CAS 2682-20-4 (2-methylisothiazol-3(2H)-one)  
GLP: Yes

Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
Test substance: CAS 2682-20-4 (2-methylisothiazol-3(2H)-one)  
GLP: Yes

Test substance: CAS 26172-55-4 (5-chloro-2-methyl-2H-isothiazol-3-one)  
Remarks: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

Test Type: aerobic

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Concentration: 6 mg/l  
Result: Readily biodegradable.  
Biodegradation: 98 %  
Exposure time: 2 d  
Method: OECD Test Guideline 302B  
Test substance: CAS 26172-55-4 (5-chloro-2-methyl-2H-isothiazol-3-one)  
Remarks: 10-day Window: Not applicable

Photodegradation : Degradation (direct photolysis):  
Degradation half life: 0.2 d  
Degradation (indirect photolysis):  
Degradation half life: 0.38 - 1.3 d

### 12.3 Bioaccumulative potential

#### Components:

#### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Test substance: CAS 2682-20-4 (2-methylisothiazol-3(2H)-one)  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

log Pow: -0.486  
Method: measured  
Remarks: 2-Methyl-4-isothiazolin-3-one(MIT):

log Pow: 0.401  
Method: measured  
Remarks: 5-Chloro-2-methyl-4-isothiazolin-3-one

### 12.4 Mobility in soil

#### Components:

#### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Distribution among environmental compartments : Remarks: Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Koc: 28  
Method: estimated  
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

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### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Components:**

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : Very toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

Contaminated packaging : Empty containers retain product residues. Follow label warnings even after container is emptied. Improper disposal or reuse of this container may be dangerous and illegal. Refer to applicable federal, state and local regulations.

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## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 3265

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**ADR** : UN 3265  
**RID** : UN 3265  
**IMDG** : UN 3265  
**IATA** : UN 3265

### 14.2 UN proper shipping name

**ADN** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(MIXTURE OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1))

**ADR** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(MIXTURE OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1))

**RID** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(MIXTURE OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1))

**IMDG** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(MIXTURE OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1))

**IATA** : Corrosive liquid, acidic, organic, n.o.s.  
(MIXTURE OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1))

### 14.3 Transport hazard class(es)

**ADN** : 8  
**ADR** : 8  
**RID** : 8  
**IMDG** : 8  
**IATA** : 8

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8



**ADR**  
Packing group : III  
Classification Code : C3  
Hazard Identification Number : 80

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Labels : 8



Tunnel restriction code : (E)

### RID

Packing group : III  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8



### IMDG

Packing group : III  
Labels : 8



EmS Code : F-A, S-B

### IATA (Cargo)

Packing instruction (cargo aircraft) : 856 : 60.00 L  
Packing group : III  
Labels : 8



### IATA (Passenger)

Packing instruction (passenger aircraft) : 852 : 5.00 L  
Packing group : III  
Labels : 8



## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

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### ADR

Environmentally hazardous : yes



### RID

Environmentally hazardous : yes



### IMDG

Marine pollutant : yes



### IATA (Passenger)

Environmentally hazardous : yes



### IATA (Cargo)

Environmentally hazardous : yes



### 14.6 Special precautions for user

Hazard and Handling Notes. : Slightly corrosive.  
Environmentally hazardous substance.  
Keep separated from foodstuffs.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

- |   |   |   |
|---|---|---|
| UK REACH List of restrictions (Annex 17)  | : | Conditions of restriction for the following entries should be considered:<br>Number on list 3 |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation   | : | Not applicable  |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)                                 | : | Not applicable  |
| International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors   | : | Not applicable  |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer   | : | Not applicable  |
| Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors. | : | Neither banned nor restricted   |
| UK REACH List of substances subject to authorisation (Annex XIV)  | : | Not applicable  |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation   | : | Not applicable  |

Control of Major Accident Hazards Regulations 2015 (COMAH)

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

### SECTION 16: Other information

#### Full text of H-Statements

H301	: Toxic if swallowed.
H310	: Fatal in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.

#### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet;

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SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Corr. 1C	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Calculation method
Based on product data or assessment
Calculation method
Calculation method
Calculation method

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.