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

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

### 1.1 Product identifier

Trade name : HTH SPA BROME MULTI-ACTION 4

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

Use of the Substance/Mixture : Biocide

<p><b>1.3 Details of the supplier of the safety data sheet</b>  Innovative Water Care Europe SAS  9 Avenue Marie Curie  37700 La Ville-aux-Dames  France</p> <p>Innovative Water Care Ltd  Cleckheaton Road - Low Moor  Esholt - Bradford  BD12 0JZ  United Kingdom</p> <p><b>E-mail address of person responsible for the SDS:</b>  HazardCommunication@solenis.com</p> <p><b>Product Information</b>  Innovative Water Care Europe: +33 (0)2 47 23 43 00, Innovative Water Care Ltd: +44 (0) 1274 417776</p>	<p><b>1.4 Emergency telephone</b>  Europe: NCEC +44 (0)1235 239 670, Africa, and Middle East: NCEC +44 (0)1235 239 671 , or contact your local emergency telephone number at 112</p>
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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)**


Oxidizing solids, Category 3

H272: May intensify fire; oxidizer.

Acute toxicity, Category 4

H302: Harmful if swallowed.



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with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391 Collect spillage.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

Bromochloro-5,5-dimethylimidazolidine-2,4-dione  
ALUMINUM SULPHATE, HYDRATE

**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.

Ecological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.


Toxicological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f), at levels of 0.1% or higher.

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

**3.2 Mixtures**

**Components**

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Bromochloro-5,5-dimethylimidazolidine-2,4-dione	32718-18-6 251-171-5	Ox. Sol. 3; H272 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 EUH031  M-Factor (Acute aquatic toxicity): 1	>= 90 - <= 100
ALUMINUM	16828-12-9	Eye Dam. 1; H318	>= 3 - < 5

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SULPHATE, HYDRATE			
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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 : Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
If breathed in, move person into fresh air.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.  
If on clothes, remove clothes.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Get medical attention immediately.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

- Symptoms : No symptoms known or expected.
- Risks : Harmful if swallowed.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Causes severe burns.

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

Treatment : No hazards which require special first aid measures.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Water spray  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire fighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Bromine  
Chlorine  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides

#### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.


Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.

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### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

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Comply with all applicable federal, state, and local regulations.

## 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).  
Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid dust formation.  
Do not breathe vapors/dust.  
Do not smoke.  
Container hazardous when empty.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.


Advice on protection against fire and explosion : Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Keep away from combustible material.  
Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : Avoid breathing dust. Wash hands before breaks and at the end of workday. When using do not eat or drink. Ensure that eyewash stations and safety showers are close to the workstation location. When using do not smoke.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on : No decomposition if stored and applied as directed.

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storage stability

### 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

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Provide appropriate exhaust ventilation at places where dust is formed.

**Appropriate organisational controls:** : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

#### Personal protective equipment

Eye protection (EN ISO 16321) : Wear chemical splash goggles and face shield to protect eyes and skin from airborne dust.  
Maintain eye wash station in immediate work area.

Hand protection (EN ISO 374)

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.


Skin and body protection (EN 14605) : Wear as appropriate:  
Chemical resistant apron  
Safety shoes  
Dust impervious protective suit  
Flame-resistant clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment supplier).  
Discard gloves that show tears, pinholes, or signs of wear.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : Pastilles

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Color : white

Odor : characteristic

Odor Threshold : No data available

pH : 3,5  
Concentration: 0,15 %

Melting point/freezing point : No data available

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : No data available

Flammability : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1,9 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available


Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

## 9.2 Other information

Particle size : No data available

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Self-ignition : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

### 10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture.  
Exposure to light.

Keep away from heat, flame, sparks and other ignition sources.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Oxidizing agents  
Reducing agents  
Strong bases

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Bromine  
Chlorine  
Nitrogen oxides (NO<sub>x</sub>)  
hydrogen bromide  
Hydrogen chloride gas

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## SECTION 11: Toxicological information


### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Harmful if swallowed.

#### Components:

**Bromochloro-5,5-dimethylimidazolidine-2,4-dione:**

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Acute oral toxicity : LD50 (Rat): 578 mg/kg

**ALUMINUM SULPHATE, HYDRATE:**

Acute oral toxicity : LD50 (Rat): 6.207 mg/kg

**Skin corrosion/irritation**

Causes severe burns.

**Product:**

Remarks : May cause skin irritation in susceptible persons.  
Causes severe skin burns and eye damage.

**Components:**

**Bromochloro-5,5-dimethylimidazolidine-2,4-dione:**

Result : Causes burns.

**ALUMINUM SULPHATE, HYDRATE:**

Result : Not irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks : May cause irreversible eye damage.

**Components:**

**Bromochloro-5,5-dimethylimidazolidine-2,4-dione:**

Result : Corrosive to eyes

**ALUMINUM SULPHATE, HYDRATE:**

Species : Rabbit

Result : Risk of serious damage to eyes.

**Respiratory or skin sensitization**

**Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**


Not classified due to lack of data.

**Product:**

Remarks : May cause allergic skin reaction.

**Components:**

**Bromochloro-5,5-dimethylimidazolidine-2,4-dione:**

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Result : May cause sensitization by skin contact.

**Germ cell mutagenicity**

Not classified due to lack of data.

**Carcinogenicity**

Not classified due to lack of data.

**Reproductive toxicity**

Not classified due to lack of data.

**STOT-single exposure**

Not classified due to lack of data.

**STOT-repeated exposure**

Not classified due to lack of data.

**Aspiration toxicity**

Not classified due to lack of data.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

**Product:**

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f), at levels of 0.1% or higher.

**Further information**

**Product:**

Remarks : No data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**


**Components:**

**Bromochloro-5,5-dimethylimidazolidine-2,4-dione:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,87 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,46 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 1

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## 12.2 Persistence and degradability

### Components:

#### **Bromochloro-5,5-dimethylimidazolidine-2,4-dione:**

Biodegradability : Result: Readily biodegradable.

#### **ALUMINUM SULPHATE, HYDRATE:**

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

## 12.3 Bioaccumulative potential

### Components:

#### **Bromochloro-5,5-dimethylimidazolidine-2,4-dione:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 0,35

## 12.4 Mobility in soil

No data available

## 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..

## 12.6 Endocrine disrupting properties


### Product:

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

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

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.
- Dispose of in accordance with local regulations.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

### 14.1 UN number or ID number

**ADR:** UN3085

**ADN:** UN3085

**RID:** UN3085

**IMDG-Code:** UN3085

**IATA-DGR:** UN3085

### 14.2 UN proper shipping name

**ADR:** OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)

**ADN:** OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)

**RID:** OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)

**IMDG-Code:** OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)


**IATA-DGR:** Oxidizing solid, corrosive, n.o.s. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)

### 14.3 Transport hazard class(es)

**ADR:** 5.1 (8)

**ADN:** 5.1 (8)

**RID:** 5.1 (8)

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**IMDG-Code:** 5.1 (8)

**IATA-DGR:** 5.1 (8)

#### 14.4 Packing group

**ADR:** III

**ADN:** III

**RID:** III

**IMDG-Code:** III

**IATA-DGR:** III

#### 14.5 Environmental hazards

**ADR:** Not applicable

**ADN:** Not applicable

**RID:** Not applicable

**IMDG-Code:** Not applicable

**IATA-DGR:** Not applicable

#### 14.6 Special precautions for user

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.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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## 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

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

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

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GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) P8 OXIDISING LIQUIDS AND SOLIDS

E1 ENVIRONMENTAL HAZARDS

#### 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.

#### Ingredients which must be listed on the label

#### The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory  
TSCA : Exempt  
AIIC : Not in compliance with the inventory  
DSL : Exempt  
ENCS : On the inventory, or in compliance with the inventory  
KECI : Not in compliance with the inventory  
PICCS : On the inventory, or in compliance with the inventory  
IECSC : On the inventory, or in compliance with the inventory

#### 15.2 Chemical Safety Assessment

No data available

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### SECTION 16: Other information

#### Further information


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#### Classification of the mixture:

Ox. Sol. 3 H272  
Acute Tox. 4 H302

#### Classification procedure:

Calculation method  
Calculation method

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Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Acute 1	H400	Calculation method


#### Full text of H-Statements

H272	:	May intensify fire; oxidizer.
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H400	:	Very toxic to aquatic life.

#### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Eye Dam.	:	Serious eye damage
Ox. Sol.	:	Oxidizing solids
Skin Corr.	:	Skin corrosion
Skin Sens.	:	Skin sensitization

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 Standardization; 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 Organization 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, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; 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 -

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United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 a 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. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

GB / EN