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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 CHLORE MULTIFONCTION

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

Use of the Substance/Mixture : Biocide

1.3 Details of the supplier of the safety data sheet Innovative Water Care Europe SAS Z.I. LA BOITARDIERE BP 219 37400 Amboise France Innovative Water Care Ltd Cleckheaton Road - Low Moor Esholt - Bradford BD12 0JZ United Kingdom E-mail address of person responsible for the SDS: EHSPProductSafetyTeam@solenis.com Product Information Innovative Water Care Europe: +33 (0)2 47 23 43 00, Innovative Water Care Ltd: +44 (0) 1274 417776	1.4 Emergency telephone 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
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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)

Acute toxicity, Category 4

H302: Harmful if swallowed.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Specific target organ toxicity - single exposure, Category 3, Respiratory

H335: May cause respiratory irritation.

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system
Short-term (acute) aquatic hazard, Category 1
Long-term (chronic) aquatic hazard, Category 1

H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms :  

Signal Word : Warning

Hazard Statements : H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH031 Contact with acids liberates toxic gas.

Precautionary Statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.

Prevention:
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370 + P378 In case of fire: Use water spray 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:

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symclosene

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).

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),

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
symclosene	87-90-1 201-782-8	Ox. Sol. 2; H272 Acute Tox. 4; H302 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH031	>= 90 - <= 100
ALUMINUM SULFATE	10043-01-3 233-135-0	Met. Corr. 1; H290 Eye Dam. 1; H318	>= 1 - < 2,5
adipic acid	124-04-9 204-673-3	Eye Irrit. 2; H319	>= 1 - < 2,5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : Move out of dangerous area.
Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
If unconscious, place in recovery position and seek medical

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advice.
If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.

If swallowed : IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
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.
Causes serious eye irritation.
May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water

Unsuitable extinguishing media : Dry extinguishers containing ammonium compounds.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : May intensify fire, oxidizer.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Chlorine
nitrogen chloride
nitrogen compounds
toxic fumes

5.3 Advice for firefighters

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

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for fire-fighters

Further information : Use water to cool containers exposed to fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
 Ensure adequate ventilation.
 Avoid dust formation.
 Avoid breathing dust.
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
 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 : Sweep up and shovel using a clean broom or shovel.
 Shovel material into clean dry containers.
 All spills of this product should be treated as contaminated.
 Contaminated product may initiate a chemical reaction that may spontaneously ignite any combustible material present, resulting in a fire.
 Avoid getting spilled product wet.
 Do not seal disposal containers tightly. Immediately remove all product in disposal containers to an isolated area outdoors.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid dust formation.
 Provide sufficient air exchange and/or exhaust in work rooms.
 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

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regulations.

Advice on protection against fire and explosion : 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. 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.

Store in original container.

Recommended storage temperature : $\leq 35^{\circ}\text{C}$

Further information on storage stability : Do not store next to a heat source, in direct sunlight, or elevated temperatures. Do not store where the daily average temperature exceeds prescribed storage temperature for 7 consecutive days. Prevent ingress of humidity and moisture into container or package. Keep containers tightly closed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ALUMINUM SULFATE	10043-01-3	TWA	2 mg/m ³ (Aluminum)	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
adipic acid	Workers	Inhalation	Long-term systemic effects	264 mg/m ³
Remarks:	Repeated dose toxicity			
	Workers	Inhalation	Systemic, short-term	264 mg/m ³
Remarks:	Repeated dose toxicity			
	Workers	Inhalation	Long-term local effects	5 mg/m ³

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Remarks:	respiratory tract irritation			
	Workers	Inhalation	Local, short-term	5 mg/m3
Remarks:	respiratory tract irritation			
	Workers	Dermal	Long-term systemic effects	38 mg/kg
Remarks:	Repeated dose toxicity			
	Workers	Dermal	Systemic, short-term	38 mg/kg
Remarks:	Repeated dose toxicity			
	General population	Inhalation	Long-term systemic effects	65 mg/m3
Remarks:	Repeated dose toxicity			
	General population	Inhalation	Systemic, short-term	65 mg/m3
Remarks:	Repeated dose toxicity			
	General population	Dermal	Long-term systemic effects	19 mg/kg
Remarks:	Repeated dose toxicity			
	General population	Dermal	Systemic, short-term	19 mg/kg
Remarks:	Repeated dose toxicity			
	General population	Oral	Long-term systemic effects	19 mg/kg
Remarks:	Repeated dose toxicity			
	General population	Oral	Systemic, short-term	19 mg/kg
Remarks:	Repeated dose toxicity			

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.

Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Hand protection

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

Skin and body protection : Wear as appropriate:
Safety shoes
Dust impervious protective suit
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).

Respiratory protection : In the case of dust or aerosol formation use respirator with an

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approved filter.
Dust safety masks are recommended when the dust concentration is more than 10 mg/m³.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: tablet
Color	: white
Odor	: chlorine-like
Odor Threshold	: No data available
pH	: 2,7 - 3,3 (25 °C) Concentration: 1 %
Melting point/freezing point	: Not applicable
Boiling point/boiling range	: Not applicable
Flash point	: does not flash
Evaporation rate	: Not applicable
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: Not applicable
Lower explosion limit / Lower flammability limit	: Not applicable
Vapor pressure	: Not applicable
Relative vapor density	: No data available
Relative density	: 1,65 (25 °C)
Density	: No data available
Solubility(ies)	
Water solubility	: 10 g/l (25 °C)
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Decomposition temperature	: No data available

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Viscosity
 Viscosity, dynamic : No data available

 Viscosity, kinematic : No data available

 Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Particle size : No data available

 Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.
 May be unstable at temperatures above 225 Deg. C (437 Deg. F).

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : excessive heat
 Heat, flames and sparks.

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

10.5 Incompatible materials

Materials to avoid : Do not allow product to come in contact with other materials, including e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc. A chemical reaction with such substances can cause a fire.

If product is exposed to small amounts of water, it can react violently to produce heat and toxic gases and spatter.

10.6 Hazardous decomposition products

Hazardous decomposition products : Chlorine
 nitrogen chloride
 nitrogen compounds
 toxic fumes

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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:

symclosene:

Acute oral toxicity : LD50 (Rat): 490 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

ALUMINUM SULFATE:

Acute oral toxicity : LD50 (Rat, female): > 2.000 - < 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

adipic acid:

Acute oral toxicity : LD50 (Rat): 5.560 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 7,7 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): > 7.940 mg/kg

Skin corrosion/irritation

Not classified due to lack of data.

Product:

Remarks : May cause skin irritation in susceptible persons.

Components:

ALUMINUM SULFATE:

Species : Rabbit

Result : Not irritating to skin

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : Product dust may be irritating to eyes, skin and respiratory

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system.
Causes serious eye irritation.

Components:

symclosene:

Species : Rabbit
Result : Severely irritating to eyes

ALUMINUM SULFATE:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Corrosive to eyes

adipic acid:

Result : Irritation to eyes, reversing within 21 days
Remarks : Severe eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

ALUMINUM SULFATE:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: Escherichia coli
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

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Test Type: Micronucleus test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: negative
GLP: yes

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

May cause respiratory irritation.

Components:

symclosene:

Target Organs : Respiratory Tract
Assessment : May cause respiratory irritation.

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),

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

symclosene:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,23 mg/l
End point: mortality

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Exposure time: 96 h

GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,24 mg/l

End point: mortality

Exposure time: 96 h

GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,17 mg/l
Exposure time: 48 h

ALUMINUM SULFATE:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on similar product.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l
Exposure time: 180 min
Test Type: Static
Method: OECD Test Guideline 209
GLP: yes
Remarks: Based on similar product.

adipic acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 97 mg/l
Exposure time: 96 h
Method: Static
Remarks: Mortality

LC50 (Danio rerio (zebra fish)): 1.000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 85,6 mg/l
Exposure time: 48 h

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12.2 Persistence and degradability

Components:

symclosene:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 2 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

ALUMINUM SULFATE:

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

adipic acid:

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

symclosene:

Partition coefficient: n-octanol/water : log Pow: 0,94

ALUMINUM SULFATE:

Bioaccumulation : Species: Atlantic salmon (Salmo salar)
Exposure time: 60 d
Bioconcentration factor (BCF): 76 - 190
Method: Flow through

Species: Atlantic salmon (Salmo salar)
Exposure time: 45 d
Concentration: 0,264 mg/l
Bioconcentration factor (BCF): 362
Method: Flow through

adipic acid:

Partition coefficient: n-octanol/water : log Pow: 0,08

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

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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).

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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.

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.

SECTION 14: Transport information

14.1 UN number or ID number

ADR: UN3077

ADN: UN3077

RID: UN3077

IMDG-Code: UN3077

IATA-DGR: UN3077

14.2 UN proper shipping name

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ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 (TRICHLOROISOCYANURIC ACID)
ADN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 (TRICHLOROISOCYANURIC ACID)
RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 (TRICHLOROISOCYANURIC ACID)
IMDG-Code: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 (TRICHLOROISOCYANURIC ACID)
IATA-DGR: Environmentally hazardous substance, solid, n.o.s. (TRICHLOROISOCYANURIC ACID)

14.3 Transport hazard class(es)

ADR: 9
ADN: 9
RID: 9
IMDG-Code: 9
IATA-DGR: 9

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

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

Control of Major Accident Hazards Regulations 2015 (COMAH) E1 ENVIRONMENTAL HAZARDS

Biocides

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

TCSI : On the inventory, or in compliance with the inventory

TSCA : Exempt

AIIC : On the inventory, or in compliance with the inventory

DSL : Exempt

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or 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:

Acute Tox. 4	H302
Eye Irrit. 2	H319
STOT SE 3	H335
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

Full text of H-Statements

H272	: May intensify fire; oxidizer.
H290	: May be corrosive to metals.
H302	: Harmful if swallowed.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H335	: May cause respiratory irritation.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

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
Eye Irrit.	: Eye irritation
Met. Corr.	: Corrosive to Metals
Ox. Sol.	: Oxidizing solids
STOT SE	: Specific target organ toxicity - single exposure
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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

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	SDS Number: R1620067
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- 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; 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

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.

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