		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL 251253		Version: 1.1

## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : SIRONA SPA CARE SIMPLY METAL CONTROL

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

Use of the Substance/Mixture : Water treatment chemical

<b>Details of the supplier of the safety data sheet</b> Innovative Water Care, LLC D/B/A GLB Pool & Spa 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America (USA)  EHSProductSafetyTeam@solenis.com	<b>Emergency telephone number</b> 1-800-654-6911 (Outside the USA:1-423-780-2970)  <b>Product Information</b> 1-800-511-6737 (Outside the USA:1-423-780-2347)
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)


Acute toxicity (Inhalation) : Category 4  
 Skin corrosion : Category 1  
 Serious eye damage : Category 1  
 Specific target organ toxicity : Category 2 (Respiratory Tract)  
 - repeated exposure (Inhalation)

### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.  
 H332 Harmful if inhaled.  
 H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL 251253		Version: 1.1

Precautionary statements : **Prevention:**  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face 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/ shower.  
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.  
P314 Get medical advice/ attention if you feel unwell.  
P363 Wash contaminated clothing before reuse.

**Storage:**  
P405 Store locked up.

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

**Other hazards**  
None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Classification	Concentration (%)
tetrasodium ethylene diamine tetraacetate	64-02-8	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT RE 2; H373	>= 40 - < 50
sodium hydroxide	1310-73-2	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 1.5 - < 5

Actual concentration is withheld as a trade secret

		Page: 3
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL		Version: 1.1
251253		

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#### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.  
Wash contaminated clothing before re-use.
- 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.
- Most important symptoms and effects, both acute and delayed : Causes serious eye damage.  
Harmful if inhaled.  
May cause damage to organs through prolonged or repeated exposure if inhaled.  
Causes severe burns.  
Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
Cough  
lung edema (fluid buildup in the lung tissue)  
Difficulty in breathing
- Notes to physician : No hazards which require special first aid measures.

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#### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO2)

		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL		Version: 1.1
251253		

Dry chemical

- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Ammonia  
toxic fumes  
Nitrogen oxides (NOx)  
Carbon monoxide  
Carbon dioxide (CO2)  
corrosive vapors  
Sodium oxides
- 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.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
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.
- 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.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.

		Page: 5
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL		Version: 1.1
251253		

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.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
 Observe label precautions.  
 Electrical installations / working materials must comply with the technological safety standards.

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

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters


Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sodium hydroxide	1310-73-2	C	2 mg/m3	ACGIH
		C	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		C	2 mg/m3	OSHA P0

**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.

### Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

		Page: 6
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL		Version: 1.1
251253		

Hand protection

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

Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.  
Maintain eye wash station in immediate work area.

Skin and body protection : Wear as appropriate:  
Impervious clothing  
Chemical resistant apron  
Safety shoes  
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.

Hygiene measures : 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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : yellow

Odour : amine-like

Odour Threshold : No data available

pH : 11.5  
Concentration: 1 %


Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL		Version: 1.1
251253		

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 1.26 - 1.28

Density : No data available

Solubility(ies)

Water solubility : completely miscible

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

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## SECTION 10. STABILITY AND REACTIVITY


Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat  
Exposure to sunlight.

Incompatible materials : Acids  
aluminum  
Copper  
Copper alloys  
halogenated hydrocarbons  
Metals  
Nickel  
organic nitro compounds

		Page: 8
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL		Version: 1.1
251253		

Oxidizing agents  
 reactive metals such as aluminum and magnesium  
 steel  
 Zinc

Hazardous decomposition products : Ammonia  
 Nitrogen oxides (NOx)  
 toxic fumes  
 Carbon monoxide  
 Carbon dioxide (CO2)  
 corrosive vapors  
 Sodium oxides

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if inhaled.

### Components:

#### **tetrasodium ethylene diamine tetraacetate:**

Acute oral toxicity : LD50 (Rat, female): 1,780 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1 - 5 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

#### **sodium hydroxide:**

Acute oral toxicity : LDLo (Rabbit): 500 mg/kg

### **Skin corrosion/irritation**

Causes severe burns.

### Product:

Remarks : Causes severe skin burns and eye damage.  
 The feeling of irritation or pain may be delayed.

### Components:


#### **tetrasodium ethylene diamine tetraacetate:**

Species : Rabbit  
 Result : Not irritating to skin

#### **sodium hydroxide:**

Result : Causes severe burns.



	Page: 9
<b>SAFETY DATA SHEET</b>	Revision Date: 11/03/2022
	Print Date: 06/03/2024
	SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL  251253	Version: 1.1

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks : May cause irreversible eye damage.

**Components:**

**tetrasodium ethylene diamine tetraacetate:**

Result : Corrosive to eyes

**sodium hydroxide:**

Result : Corrosive to eyes

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**tetrasodium ethylene diamine tetraacetate:**

Test Type : Maximisation Test  
 Species : Guinea pig  
 Method : OECD Test Guideline 406  
 Remarks : Information given is based on data obtained from similar substances.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**tetrasodium ethylene diamine tetraacetate:**


Genotoxicity in vitro : Test Type: Ames test  
 Test system: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Result: negative

**Carcinogenicity**

Not classified based on available information.

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

		Page: 10
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL		Version: 1.1
251253		

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

**Components:**

**tetrasodium ethylene diamine tetraacetate:**

Exposure routes : Inhalation  
 Target Organs : Respiratory Tract  
 Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks : No data available

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

**Ecotoxicology Assessment**

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.


**Components:**

**tetrasodium ethylene diamine tetraacetate:**

Toxicity to fish : LC50 (Bluegill (*Lepomis macrochirus*)): 792 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 140 mg/l  
 Exposure time: 48 h  
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic : NOEC (*Desmodesmus subspicatus* (green algae)): > 100 mg/l

		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL		Version: 1.1
251253		

plants  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): >= 25.7 mg/l  
 Exposure time: 35 d  
 Test Type: flow-through test  
 Method: OECD Test Guideline 210  
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 25 mg/l  
 Exposure time: 21 d  
 Test Type: semi-static test  
 Remarks: Information given is based on data obtained from similar substances.

**sodium hydroxide:**

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l  
 Exposure time: 96 h  
 Method: Static  
 Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 34.59 - 47.13 mg/l  
 Exposure time: 48 h  
 Remarks: Intoxication

**Persistence and degradability**

**Components:**

**tetrasodium ethylene diamine tetraacetate:**

Biodegradability : Result: Not readily biodegradable.  
 Biodegradation: < 10 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301E


Biodegradation: 90 - 100 %  
 Exposure time: 72 d  
 Method: OECD Test Guideline 301E

**Bioaccumulative potential**

**Components:**

**tetrasodium ethylene diamine tetraacetate:**

Partition coefficient: n-octanol/water : log Pow: < 3

		Page: 12
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL		Version: 1.1
251253		

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**

Additional ecological information : No data available

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
  
Dispose of in accordance with all applicable local, state and federal 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**

**International Regulations**

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.


**National Regulations**

**49 CFR**

Not regulated as a dangerous good

**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.

		Page: 13
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL		Version: 1.1
251253		

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydroxide	1310-73-2	1000	52631

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
 Specific target organ toxicity (single or repeated exposure)  
 Skin corrosion or irritation  
 Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Massachusetts Right To Know

sodium hydroxide 1310-73-2

#### Pennsylvania Right To Know


WATER 7732-18-5  
 tetrasodium ethylene diamine tetraacetate 64-02-8  
 sodium hydroxide 1310-73-2

#### New Jersey Right To Know

WATER 7732-18-5  
 tetrasodium ethylene diamine tetraacetate 64-02-8  
 sodium hydroxide 1310-73-2

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

TCSI : On the inventory, or in compliance with the inventory  
 TSCA : All substances listed as active on the TSCA inventory  
 AIIC : Not in compliance with the inventory  
 DSL : All components of this product are on the Canadian DSL  
 ENCS : Not in compliance with the inventory  
 KECI : Not in compliance with the inventory

		Page: 14
<b>SAFETY DATA SHEET</b>		Revision Date: 11/03/2022
		Print Date: 06/03/2024
		SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL		Version: 1.1
251253		

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

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

#### TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:

GLYCINE, N-(CARBOXYMETHYL)-N-[2-[(19019-43-3  
CARBOXYMETHYL)]

No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

### Further information

Revision Date : 11/03/2022


### Full text of H-Statements

H290 : May be corrosive to metals.  
H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.  
H332 : Harmful if inhaled.  
H373 : May cause damage to organs through prolonged or repeated exposure if inhaled.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Met. Corr. : Corrosive to metals  
Skin Corr. : Skin corrosion  
STOT RE : Specific target organ toxicity - repeated exposure  
ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
NIOSH REL : USA. NIOSH Recommended Exposure Limits  
OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
ACGIH / C : Ceiling limit  
NIOSH REL / C : Ceiling value not be exceeded at any time.  
OSHA P0 / C : Ceiling limit  
OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -

	Page: 15
<b>SAFETY DATA SHEET</b>	Revision Date: 11/03/2022
	Print Date: 06/03/2024
	SDS Number: R1600851
SIRONA SPA CARE SIMPLY METAL CONTROL  251253	Version: 1.1

Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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 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.

US / EN