SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.
Product Name: CTX-12 Chlorine and bromine Neutralizer
Chemical Name: sodium sulphite
CAS No: 7757-83-7
EC No: 231-821-4
Registration No: 01-2119537420-49-XXXX

1.2 Relevant identified uses of the substance and uses advised against.
Chlorine and bromine neutralizer
Uses advised against:
Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.
Company: Fluidra Comercial España
Address: Pintor Velazquez 10
City: 08213 Polinyà
Province: (Barcelona) Spain
Telephone: 902 42 32 22
Fax: +34 93 713 41 11
E-mail: clientes@fluidra.es

1.4 Emergency telephone number:
Anti poisoning centre:
ITALY (Rome): 06/305 43 43
ITALY (Milan): 02/66 10 10 29
SPAIN: +34 91 562 04 20
FRANCE (Paris): 01 40 05 48 48
FRANCE (Tolousse): 05 61 77 74 47
FRANCE (Marseille): 04 91 75 25 25
PORTUGAL: 808 250 143

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance.
The product is not classified as hazardous within the meaning of Regulation (EU) No 1272/2008.

2.2 Label elements.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

2.3 Other hazards.
In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.
Chemical Name: sodium sulphite
CAS No: 7757-83-7

-Continued on next page.-
4.1 Description of first aid measures.
Due to the composition and type of the substances present in the product, no particular warnings are necessary.

Inhalation.
Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Eye contact.
If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.
Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.
If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed.
No known acute or delayed effects from exposure to the product.

4.3 Indication of any immediate medical attention and special treatment needed.
In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.
6.2 Environmental precautions.
Product not classified as hazardous for the environment, avoid spillage as much as possible.

6.3 Methods and material for containment and cleaning up.
The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.
For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.
The product does not require special handling measures, the following general measures are recommended:
For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers.
In the application area, smoking, eating, and drinking must be prohibited.
Follow legislation on occupational health and safety.
Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.
The product does not require special storage measures.
As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided.
Keep away from oxidising agents and from highly acidic or alkaline materials.
Store the containers between 5 and 35º C, in a dry and well-ventilated place.
Store according to local legislation. Observe indications on the label.
The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).
None in particular.

SECTION 8: EXPOSURE CONTROLS/PERSOAL PROTECTION.

8.1 Control parameters.
The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.
Concentration levels DNEL/DMEL:

<table>
<thead>
<tr>
<th>Name</th>
<th>DNEL/DMEL</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium sulphite</td>
<td>DNEL</td>
<td>Inhalation, Long-term, Systemic effects</td>
<td>298 (mg/m³)</td>
</tr>
<tr>
<td>: 7757-83-7</td>
<td>(Workers)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>: 231-821-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

8.2 Exposure controls.

Measures of a technical nature:
Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

<table>
<thead>
<tr>
<th>Concentration:</th>
<th>100 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uses:</td>
<td>Chlorine and bromine neutralizer</td>
</tr>
<tr>
<td>Breathing protection:</td>
<td>If the recommended technical measures are observed, no individual protection equipment is necessary.</td>
</tr>
</tbody>
</table>
**Hand protection:**
If the product is handled correctly, no individual protection equipment is necessary.

**Eye protection:**
If the product is handled correctly, no individual protection equipment is necessary.

**Skin protection:**

<table>
<thead>
<tr>
<th>PPE:</th>
<th>Work footwear.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Characteristics:</td>
<td>«CE» marking, category II.</td>
</tr>
<tr>
<td>CEN standards:</td>
<td>EN ISO 13287, EN 20347</td>
</tr>
</tbody>
</table>

**Maintenance:**
This product adapts to the first user’s foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.

**Observations:**
Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.**

9.1 Information on basic physical and chemical properties.

- **Appearance:** Cristallyne solid
- **Colour:** White
- **Odour:** Odourless
- **Odour threshold:** N.A./N.A.
- **pH:** 9 - 10 (5%)
- **Melting point:** N.A./N.A.
- **Boiling Point:** N.A./N.A.
- **Flash point:** N.A./N.A.
- **Evaporation rate:** N.A./N.A.
- **Inflammability (solid, gas):** N.A./N.A.
- **Lower Explosive Limit:** N.A./N.A.
- **Upper Explosive Limit:** N.A./N.A.
- **Vapour pressure:** N.A./N.A.
- **Vapour density:** N.A./N.A.
- **Relative density:** 1.5 - 1.7 g/cm³
- **Solubility:** N.A./N.A.
- **Partition coefficient (n-octanol/water):** - 4.0
- **Auto-ignition temperature:** N.A./N.A.
- **Decomposition temperature:** N.A./N.A.

**Oxidizing properties:** No

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

9.2. Other information.

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**SECTION 10: STABILITY AND REACTIVITY.**

10.1 Reactivity.
The product does not present hazards by their reactivity.

10.2 Chemical stability.
Unstable in contact with:
- Acids.

10.3 Possibility of hazardous reactions.
Neutralization can occur on contact with acids.

10.4 Conditions to avoid.
- Avoid contact with acids.

**10.5 Incompatible materials.**
Avoid the following materials:
- Acids.

**10.6 Hazardous decomposition products.**
Depending on conditions of use, can be generated the following products:
- Corrosive vapors or gases.

**SECTION 11: TOXICOLOGICAL INFORMATION.**

**11.1 Information on toxicological effects.**
Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.
Splatters in the eyes can cause irritation and reversible damage.

**Toxicological information.**

<table>
<thead>
<tr>
<th>Name</th>
<th>Acute toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium sulphite</td>
<td></td>
</tr>
<tr>
<td>CAS No: 7757-83-7</td>
<td>EC No: 231-821-4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Test</th>
<th>Kind</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>Rat</td>
<td>3560 mg/kg bw [1]</td>
</tr>
</tbody>
</table>


- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard;

- Not conclusive data for classification.

-Continued on next page.-
SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

<table>
<thead>
<tr>
<th>Name</th>
<th>Ecotoxicity</th>
<th>Type</th>
<th>Test</th>
<th>Kind</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium sulphite</td>
<td>Fish</td>
<td>LC50</td>
<td>Fish</td>
<td>220-460 mg/l (96h)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic invertebrates</td>
<td>EC50</td>
<td>Daphnia magna</td>
<td>273 mg/l (50h)</td>
<td></td>
</tr>
</tbody>
</table>

CAS No: 7757-83-7   EC No: 231-821-4

12.2 Persistence and degradability.
No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.
No information is available regarding the bioaccumulation.

12.4 Mobility in soil.
No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.
No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.
No information is available about other adverse effects for the environment.

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.
Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product’s spillage, proceed in accordance with point 6.

14.1 UN number.
Transportation is not dangerous.

14.2 UN proper shipping name.
Transportation is not dangerous.

14.3 Transport hazard class(es).
Transportation is not dangerous.

14.4 Packing group.
Transportation is not dangerous.

14.5 Environmental hazards.
Transportation is not dangerous.
14.6 Special precautions for user.
Transportation is not dangerous.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code.
Transportation is not dangerous.

SECTION 15: REGULATORY INFORMATION.

15.1 Safety, health and environmental regulations/legislation specific for the substance.

The product is not affected by Directive 2012/18/EU (SEVESO III).
The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.
The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

15.2 Chemical safety assessment.
There has been no evaluation a chemical safety assessment of the product.

SECTION 16: OTHER INFORMATION.

It is recommended that the product only be employed for the purposes advised.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>7757-83-7</td>
<td>sodium sulphite</td>
<td>Registered</td>
</tr>
</tbody>
</table>

Abbreviations and acronyms used:
CEN: European Committee for Standardization.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.

Key literature references and sources for data:
http://eur-lex.europa.eu/homepage.html
http://echa.europa.eu/


The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.