



Chemifloc Ltd.

SAFETY DATA SHEET Sodium Thiosulphate 20% Solution

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Section 1: Identification of the substance and of the company/undertaking

Identification of the substance or mixture

Product Name: Sodium Thiosulphate 20% Solution
Chemical Name: Sodium Thiosulphate
Registration Number: 01-2119531537-38-xxxx
Synonyms: None.
Date of first issue: 07-03-2013
Version number: 03
Revision date: 24-03-2016
Supersedes date: 04-03-2016

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

Identified uses: As a dechlorination agent in water and wastewater treatment.
In swimming pool water treatment.
Uses advised against: None.

Details of the supplier of the safety data sheet

Manufacturer: Chemifloc Ltd
Smithstown, Shannon,
Co. Clare,
Rep. of Ireland.
Tel: 00353 61 708699
Fax: 00353 61 708698
e-mail: info@chemifloc.ie

**Emergency Telephone Number: National Poison Information Centre,
00353 1 8379964**

Section 2: Hazards Identification

Classification of the substance

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) no 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Physical hazards: Not classified for physical hazards.
Health hazards: Not classified for health hazards.
Environmental hazards: Not classified for hazards to the environment.
Specific hazards: Not available.
Main symptoms: Not available.

Label elements
Label according to Regulation (EC) No. 1272/2008 as amended

Hazard statements

The mixture does not meet the criteria for classification.

Precautionary statements

Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Supplemental label information.	Not applicable.
Other hazards	Not assigned.

Section 3: Composition/Information on Ingredients

Substance

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Sodium Thiosulphate	20	7772-98-7 231-867-5	01-2119531537-38- XXXX		#
Water	80	7732-18-5			

Classification: CLP: Not Classified.

Section 4: First Aid Measures

General information No special measures required.

Description of first aid measures

Inhalation	Move to fresh air. Call a physician in case of complaints.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor.
Ingestion	Rinse mouth thoroughly. Drink plenty of water. IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
Most important symptoms and effects, both acute and delayed	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	No further relevant information available.

Section 5: Firefighting measures

General fire hazards	Non-combustible, substance itself does not burn. Do not inhale combustion gases. Fire may result in decomposition and release of harmful vapours including Sulphur dioxide.
Extinguishing media	
Suitable extinguishing Media	Foam (preferred), dry chemical, water. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing Media	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from Advice for firefighters	Fire may produce irritating, corrosive and/or toxic gases. Sulphur Oxides (SO _x).
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective clothing.
Special firefighting Procedures	Move containers from fire area if you can do so without risk. In case of fire and/or explosion do not breathe fumes.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Local authorities should be advised if significant spillages cannot be contained. Avoid contact with spilled material. Do not touch or walk through spilled material. spillages cannot be contained. Stay upwind.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Avoid subsoil penetration. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Methods and material for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.
Reference to other sections	For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

Precautions for safe handling	Do not get this material in contact with eyes. Do not taste or swallow. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a well-ventilated place. Keep out of the reach of children. Segregate from acids, oxidants and acid forming substances. Do not store with: sodium nitrate, sodium nitrite, sodium sulphide.
Specific end use(s)	The specified uses for this material are shown in section 1 of this document.

Section 8: Exposure controls / personal protection

Control parameters

Occupational exposure limits

Ireland

United Kingdom

ComponentsSodium Thiosulphate
(7772-98-7)**Type**

OEL

Value

None

Biological limit values**Recommended monitoring procedures**

No biological exposure limits noted for the ingredient(s).

DNEL

DNEL**Components**

Sodium Thiosulphate (7772-98-7)

Type

Consumer

Route

Oral

Value14 mg/kg
bw/day**Form**Long term,
systemic

Inhalation

110 mg/m³Long term,
systemic

Industry

Inhalation

374 mg/m³Long term,
systemic**PNEC****Components**

Sodium Thiosulphate (7772-98-7)

Type

Not applicable

Route

STP

Value

102.6 mg/l

Form

Water

0.8 mg/l

Freshwater

Exposure Controls**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide adequate general and local exhaust ventilation.

Individual protection measures, such as personal protective equipment.**General information**

Eye wash fountain is recommended.

Eye/face protection

Do not get in eyes. Wear safety glasses with side shields (or goggles). Chemical goggles are recommended. (EN166)

Skin protection**- Hand protection**

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Replace damaged gloves.

- Other

Normal work clothing (long sleeved shirts and long pants) is recommended. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory protection

No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards

Not available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

General information (Appearance, odour)

Physical State	Aqueous solution
Colour	Colourless
Odour	Odour of sulphur dioxide

Important health safety and environmental information

pH	7.0 ó 10.0
Boiling point / range	> 100 °C (>212 °F)
Crystallisation Point	-17.8°C (-0.4 °F)
Flash point	not applicable.
Flammibility (solid, gas)	not applicable.
Explosive properties	
- Lower explosive limit	not applicable
- Upper explosive limit	not applicable
Vapour Pressure	Not available.
Density	1.1 g/cm ³
Solubility(ies)	
- Water solubility	miscible
Partition coefficient (n-octanol/water)	not applicable.
Thermal Decomposition	100°C.
Other information	No relevant additional information available.

Section 10: Stability and reactivity

Reactivity	Avoid contact with acids.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	None under normal conditions. Thermal decomposition can take place above 150°C.
Incompatible materials	This product reacts with acids. Also can react with nitrites, nitrates and oxidizing agents.
Hazardous decomposition products	sulphur oxides (SOx)
Thermal decomposition	100°C.

Section 11: Toxicological information

General Information	Data given in this section refers to the undiluted substance. There is no toxicological data available on the preparation itself.
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Information on likely routes of exposure

Ingestion	May be harmful if swallowed.
Inhalation	Not available.
Skin Contact	Not available.
Eye Contact	Not available.

Symptoms	Not available.
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Information on toxicological effects

Acute toxicity	May be harmful if swallowed.
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Product

Sodium metabisulphite (7681-57-4)

Test results

Acute Dermal LD50 Rat: > 2000 mg/kg bw
Acute Inhalation LC50 Rat: > 505 mg/l 4.00 hours
Acute Oral LD50 Rat: 1420 ó 1630 mg/kg bw Female - Male

Skin corrosion/irritation	Not irritating.
Serious eye damage/eye irritation	No irritating effect.
Skin Sensitisation	No sensitization responses were observed.
Respiratory Sensitisation	Not available .
Germ Cell mutagenicity	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Carcinogenicity	Did not cause cancer in long-term animal studies.
Reproductive toxicity	In vivo tests did not show mutagenic effects.
STOT - single exposure	Not available.
STOT- repeated exposure	Not available.
Aspiration hazard	Not classified.

Section 12: Ecological information

Toxicity

Product	Test results
Sodium Thiosulphate	LC50 Daphnia: 230 mg/l

* Estimates for product may be based on additional component data not shown.

Persistence and degradability

The product solely consists of inorganic compounds which are not biodegradable.

Bioaccumulative potential

Does not bioaccumulate.

Mobility in soil

Mobility Not available.

Results of PBT and Not available.

vPvB assessment

Other adverse effects No further relevant information available.

Section 13: Disposal considerations

Waste treatment methods

Residual waste Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information

This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14: Transport information

ADR/RID:

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Section 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER)

Not listed

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

Not listed.

National regulations Not available.

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. No restrictions identified other than those already covered in regulations.

Chemical Safety Assessment

Chemical Safety Assessments have been carried out for the components of the mixture.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes

Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances(PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Section 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Not available.

Training advice Not available

Further information

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