



BASIC CHEMICALS LIMITED

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HEALTH AND SAFETY DATA

SODIUM THIOSULPHATE PENTAHYDRATE

1. IDENTIFICATION

PRODUCT NAME: SODIUM THIOSULPHATE PENTAHYDRATE

COMPANY IDENTIFICATION: BASIC CHEMICALS LTD
Hillbottom Road
Sands Industrial Estate
High Wycombe
Bucks HP12 4HJ
TELEPHONE NO: 01494-450701

EMERGENCY TEL NO: 07747 014855
(out of office hours)

2. COMPOSITION / INFORMATION ON INGREDIENTS

SYNONYMS: Antichlor
CAS NO.: 10102-17-7
M: 248.18 g/mol
EC NO.: 231-867-5
FORMULA HILL: $\text{Na}_2\text{O}_3\text{S}_2 \cdot 5 \text{H}_2\text{O}$

3. HAZARDS IDENTIFICATION

Not hazardous product as specified in Directive 67/548/EEC

4. FIRST AID MEASURES

INHALATION: Fresh air.

SKIN CONTACT: Wash off with plenty of water. Remove contaminated clothing.

EYE CONTACT: Rinse out with water.

INGESTION: (Large amounts) Consult a doctor if feeling unwell.

5. FIRE FIGHTING MEASURES SUITABLE EXTINGUISHING MEDIA:

In adaptation to materials stored in the immediate neighborhood.

SPECIAL RISKS:	Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: Sulphur Oxides.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:	Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.
OTHER INFORMATION:	Contain escaping vapors with water. Prevent fire fighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

PERSON-RELATED PRECAUTIONARY MEASURES:	Avoid generation of dusts; do not inhale dusts.
ENVIRONMENTAL PROTECTION MEASURES:	Do not allow to enter sewerage system.
PROCEDURES FOR CLEANING/ ABSORPTION:	Take up dry. Forward for disposal. Clean up affected area.

7. HANDLING AND STORAGE

HANDLING:	No further requirements.
STORAGE:	Tightly closed. Dry. Storage temperature: no restrictions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

RESPIRATORY PROTECTION:	Required when dusts are generated.
EYE PROTECTION:	Required.
HAND PROTECTION:	Use recommended.
INDUSTRIAL HYGIENE:	Change contaminated clothing. Wash hands after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Solid.
COLOUR:	Colourless
ODOUR:	Odourless
PH VALUE:	m 100 g/l H ₂ O (20°C) 6.0-8.4
MELTING POINT:	48°C
BOILING POINT:	Not applicable
IGNITION TEMPERATURE:	Not combustible
FLASH POINT:	Not flammable
EXPLOSION LIMITS (lower):	Not applicable
EXPLOSION LIMITS (upper):	Not applicable
DENSITY:	(20°C) 1.74 g/cm ³
BULK DENSITY:	- 1000 kg/m ³
SOLUBILITY IN WATER:	(20°C) 701
SOLUBILITY IN ETHANOL:	insoluble
THERMAL DECOMPOSITION:	100°C (release of crystalline water)

10. STABILITY AND REACTIVITY

CONDITIONS TO BE AVOIDED:	Heating (decomposition)
SUBSTANCES TO BE AVOIDED:	Strong oxidising agents, heavy metals; increased reactivity with nitrites and peroxi compounds (risk of explosion!)
FORMED COULD BE:	With acids sulphur dioxide.
HAZARDOUS DECOMPOSITION PRODUCTS:	In the event of fire: See chapter 5.
FURTHER INFORMATION:	Releases water of crystallization when heated. Dust explosion possible.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	LD50 (oral, rat): > 8000 mg/kg
SUBACUTE TO CHRONIC TOXICITY:	Bacterial mutagenicity: negative.
FURTHER TOXICOLOGICAL INFORMATION:	After swallowing of large amounts: Nausea, vomiting, No description of any further symptoms is available.
FURTHER DETAILS:	The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

ECOTOXIC EFFECTS:	
BIOLOGICAL EFFECTS:	
FISH TOXICITY:	P.promoles LC50: > 10000 mg/l 96h; Gambusia affinis LC50: 26000 mg/l/48 h.
DAPHNIA TOXICITY:	Daphnia Magna EC50: 1223 mg/l 48h
FURTHER ECOLOGICAL DATA:	COD: 0.322 g/g COD: 99% from TOD.

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. DISPOSAL CONSIDERATIONS

PRODUCT

Chemicals must be disposed of in compliance with the respective national regulations.

PACKAGING

Product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

14. TRANSPORT INFORMATION

UN NUMBER: N/C

Not regulated for transport.

15. REGULATORY INFORMATION

SYMBOL:	Not classified
RISK PHRASES:	Not classified
SAFETY PHRASE:	Not classified

16. OTHER INFORMATION

LEGAL DISCLAIMER:

The data given above is based upon information received by us and believed to be correct as general guidance for our customers who should, nonetheless, seek confirmation regarding the application of such information as well as safety and or/suitability in relation to the product supplied either alone or in combination with other products. Given that the above information is for general guidance only, users (customers and otherwise) assume all responsibility and liability of whatsoever nature arising from the handling and use of the product and the application of such information (whether or not the product is used alone or in combination with another product) and users must satisfy themselves by specific enquiries and confirmation as to application of the above information and/or the safety and/or suitability of the product and by reference to their own tests and knowledge.