SODIUM THIOSULFATE (PENTA), EXTRA PURE

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: SODIUM THIOSULFATE (PENTA), EXTRA PURE
Product Code: 469
CAS#: 10102-17-7
Synonym: SODIUM THIOSULFATE
Chemical Name: Not available
Chemical Formula: $Na_2S_2O_3.5H_2O$
Formula weight: 248.18

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition:
Name: SODIUM THIOSULFATE (PENTA) EXTRA PURE
Toxicological Data on Ingredients: Not available

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
Potential Acute Health Effects: Not available
Potential Chronic Health Effects : Not available
Carcinogenic Effects: Not available
Mutagenic Effects: Not available.
Teratogenic Effects: Not available.
Developmental Toxicity: Not Available
Specific target organ toxicity - Not available

SECTION 4: FIRST AID MEASURES

Description of first aid measures
General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled If breathed in: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact Wash off with soap and plenty of water. Consult a physician.
In case of eye contact: Flush eyes with water as a precaution.
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delay: No data available
Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5: FIRE AND EXPLOSION DATA

Extinguishing media
Suitable extinguishing media:
Water Foam Carbon dioxide (CO2) Dry powder.
Special hazards arising from the substance or mixture
Sodium oxides
Molybdenum oxides
Not combustible.

Ambient fire may liberate hazardous vapours.
Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
Environmental precautions Do not let product enter drains.
Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Work under hood. Do not inhale substance/mixture.
Conditions for safe storage, including any incompatibilities
Tightly closed. Dry.
Do not store near acids.
Keep in a dry place.
Storage Class:
Not available.
Specific end use(s) A part from the uses:
No other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls
Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form	: Colorless crystals
Colour	: Colorless
Odour	: Not available
Odour Threshold	: Not available
pH	: 6.0 – 8.5
Melting point/freezing point	: Not available
Initial boiling point and boiling range	: Not available
Flash point	: Not available

Evaporation rate	: Not available
Flammability (solid, gas)	: Not available
Upper/lower flammability or explosive limits	: Not available
Vapour pressure	: Not available
Vapour density	: Not available
Relative density	: Not available
Water solubility	: Soluble in water
Partition coefficient	: Not available
Auto-ignition temperature	: Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity no data available
Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions
Risk of explosion with: nitrates nitrites peroxide compounds Strong oxidizing agents
Violent reactions possible with: Fluorine acids
Conditions to avoid: Not available
Incompatible materials: Strong oxidizing agents
Hazardous decomposition products Other decomposition products: In the event of fire

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute Toxicity:
LD50 Oral - Rat - female - > 2.000 mg/kg
LC50 Inhalation - Rat - male and female - 4 h - > 2,6 mg/l
The value is given in analogy to the following substances: potassium thiosulphate
LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg
Skin corrosion/irritation no data available
Serious eye damage/eye irritation no data available
Respiratory or skin sensitization no data available
Carcinogenicity no data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish	static test LC50 - Lepomis macrochirus (Bluegill sunfish) - 510 mg/l- 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 230 mg/l - 48 h
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - > 100 mg/l - 72 h
Toxicity to bacteria	static test EC50 - activated sludge - > 1.000 mg/l - 3 h

Persistence and degradability:
The methods for determining biodegradability are not applicable to inorganic substances.

Chemical Oxygen Demand (COD)	405 mg/g

Bioaccumulative potential :no data available
Mobility in soil no data available
Results of PBT and vPvB assessment PBT/vPvB assessment not available
Other adverse effects: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

UN number:
ADR/RID: **IMDG: NA** **IATA: NA**
UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
Transport hazard class(es):
ADR/RID: **IMDG: NA** **IATA: NA**
Packaging group:
ADR/RID: **IMDG: NA** **IATA: NA**
Environmental hazards:
ADR/RID: NA **IMDG Marine pollutant: NA** **IATA: NA**

SECTION 15: OTHER REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations Take note of Dir 94/33/EC on the protection of young people at work.

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements.
Not available.
Special Considerations: Not available

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