



SAFETY DATA SHEET : INODOSE 5

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

Commercial name and synonym : Inodose (with different levels of concentration), sulphur tablets.

Manufacturer / supplier identification :

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2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS number : 7773-03-7

CE number : 231-870-1

Molecular formula : $K^+ + HSO_3^-$

3. HAZARD IDENTIFICATION

Health risk : Irritating to respiratory system and eyes. Contact with acid liberates toxic gas (SO_2).

Ecological risk : .May cause a reduction of the oxygen level and an increase of the level of ammoniac if poured in water, with negative effects on living organisms.

Chemical and physical hazard : Non flammable product– limited risk.

Fire and explosion : A close fire may liberate a toxic gas : sulphur dioxyde (SO_2).

4. FIRST AID MEASURES

Inhalation : Remove from exposure, stay outside. If breathing remains difficult, provide oxygen or use artificial respiration.

Skin contact : Take contaminated clothes off. Wash off skin thoroughly for at least 15 minutes.

Eye contact :Irrigate thoroughly with water for at least 15 minutes. OBTAIN MEDICAL ATTENTION

Ingestion : Give plenty of water to drink. OBTAIN MEDICAL ATTENTION

5. FIRE FIGHTING MEASURES

Suitable extinguishing media : Not flammable – Use water in case of close fire.

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Extinguishing media to avoid : None.

Hazard coming from combustion products : Sulphur dioxide– Ammoniac.

Protection in case of intervention : Individual dust respirator.

Further information : Water used as extinguishing media, contaminated by the product, has to be removed according to the local regulations.

6. ACCIDENTAL RELEASE MEASURES

Collection and draining instructions : For small spillage, wash area of spillage with water, then collect contaminated water and oxidise with hydrogen peroxide, then neutralise with lime or caustic soda.

Individual precautionary measures : Provide required ventilation. Wear protection clothes. Keep facing wind.

Ecological precautionary measures : Avoid any spillage in sewerage system.

7. HANDLING AND STORAGE

Manipulation : Avoid at any time partial heating of the product which would generate a violent exothermic reaction. The product releases slowly sulphur dioxide at ambient temperature. Under cool climates, the product has to be stored over 10°C to prevent any crystallisation.

Storage : Allow retaining tanks with enough room. Store in a cool, dry, well-ventilated area. Keep away from acids and oxidising agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection : Safety mask with cartridge against sulphur dioxide.

Eye protection : Safety glasses with side protection. Avoid wearing contact lenses.

Hands protection : .Safety gloves.

Skin protection : Working clothes and boots.

Exposure controls : TLV – TWA : not assigned (5 mg/m³ referred to SO₂) (ACGIH 1993-94)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Limpid liquid.

Boiling temperature : Not applicable.



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Density at 20 °C :According to concentration.

Solubility in water: According to concentration.

Flash point : Not applicable.

Explosion limits (vol. %) : Not applicable.

Auto-ignition temperature : Not applicable.

10. STABILITY AND RÉACTIVITY

Conditions to avoid : Violent heating. If violently heated, the product can undergo an exothermic reaction until the transformation into ammonium thiosulfate and sulphur, with sulphur dioxide outburst.

Substances to be avoided : Acids – oxidising agents.

Hazardous decomposition products :Sulphur dioxide– Ammoniac.

11. TOXICOLOGICAL INFORMATIONS

Ways of penetration : Inhalation : Yes.
Ingestion : Unprobable event.
Contact : Yes.

Acute toxicity : Datas non available in « Sax's dangerous properties –1993 »

Consequences of inhalation: Irritation of the respiratory tracts.

Local effect on skin: Irritation- Sensitizing at the individuals allergic to the product

Local effect on eyes : Irritation.

12 ÉCOLOGICAL INFORMATIONS

May cause a reduction of the oxygen level and an increase of the level of ammoniac if poured in water, with negative effects on living organisms..

13. DISPOSAL CONSIDERATIONS

Products or residues : Inorganic product not to evacuate by the systems of biological treatment. Remove according to the local regulations. By the means of authorized companies of removal.

Soiled packing : As well as possible to empty packing by opening them completely. To evacuate according to their constitution.



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14. TRANSPORT INFORMATION

Product non subjected to standards ADR/RID and IMO, relating to road and maritime transport of dangerous matters, also if it is specifically nominated on the basis of criterion of the paragraphs (3) and (5) from marginal the 2800 ADR/RID and of the paragraph 2.1.4.3. – Classe 8 of IMDG code.

15. REGULATORY INFORMATION

Labelling according to EC directives

Hazard symbol : Xi : Irritant.

R-phrases: R31 : In contact with an acid releases a toxic gas.
R36/37 : Irritating for eyes and respiratory tracts.

S-phrases: S26 : In case of contact with eyes, irrigate thoroughly with water, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

Risks concerning sulphur dioxide : gas toxic by inhalation, heavier than the air. It can accumulate in closed places in particular on the level of the ground and below this last. At high concentrations, can be corrosive for eyes, respiratory tracts and skin.

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