

MATERIAL SAFETY DATA SHEET

CAS Number: 7681-57-4

Version :01

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PRODUCT NAME: SODIUM METABISULPHITE

1. IDENTIFICATION:

Product Code : 90553, 91592, 91206, 91328, 93573, 98954, 99001

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Health hazards

Hazard symbol

Signal word

Acute toxicity, Oral : Category 4

Serious eye damage : Category 1

Labels elements :

Hazard statement Harmful if swallowed.

Causes serious eye damage.

Precautionary statement

Prevention : Obtain special instructions before use.

Danger

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety

precautions have been read and understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Keep container tightly closed. Ground/ bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

Response: IF exposed or concerned: Get medical advice/ attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.



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Storage

: Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Disposal

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal

Other hazards which do not : result in GHS classification

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

~	CONTROLL	INICODRAGTION	ON INCOADIENTS
3.	COMPOSITION	INFURIVIATION	ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Sodium Metabisulphite	7681-57-4	NLT 95.0%	Yes

FIRST AID MEASURES:

General information

: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do NOT induce

vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

Inhalation

provide artificial respiration. If breathing is difficult, give oxygen.

Get medical attention if symptoms persist.

Skin contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Eye contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

The most important known symptoms and effects are described in the labelling (see section 2.0)

Most important symptoms/effects, acute

and delayed

Indication of immediate medical attention and special treatment needed

: No data available.

FIRE FIGHTING MEASURES:

General information : No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

: For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising from the chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance

: to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in



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flammability hazard. Heat may cause the containers to explode.

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Special protective equipment and precautions for firefighters

Special firefighting

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting

procedures

the fire. Fight fire from a protected location. Move containers from fire area if you can do so

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without risk.

Special protective

Firefighters must use standard protective equipment including flame retardant coat, helmet

with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

equipment for fire-fighters

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.

up

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

Environmental precautions

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

HANDLING AND STORAGE:

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye

Protection / face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage,

including any incompatibilities Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Ingredients with workplace control parameters :-

Derived No Effect Level (DNEL)

Application Area	Routes of exposure	Health effect	Value
Worker DNEL, long	inhalation	Systemic effects	10 mg/m3
term			



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Predicted No Effect

Concentration (PNEC) :

Appropriate engineering

controls

Compartment	Value	
Fresh water	1 mg/l	
Sea water	0,1 mg/l	
Sewage treatment plant	75,4 mg/l	

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No data available

Individual protection measures, such as personal protective equipment

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

General information exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/face protection . Wear safety glasses with side shields (or goggles).

Hand protection . Chemical resistant gloves.

Other . Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation use suitable respirator.

Always observe good personal hygiene measures, such as washing after handling the

material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : White crystals or crystalline powder.

Odor : Pungent

Solubility : Miscible in water.

Formula : $Na_2S_2O_5$

Molecular Weight : 190.1 g/mol

Specific Gravity : 2,36 g/cm3 at 20 °C

pH : 3.8 - 5.3

% Volatiles by volume @

21C (70F)

Hygiene measures

No data available.

Boiling Point : No data available.

Melting Point : $> 300 \, ^{\circ}\text{C}$

Flash Point : Not applicable

Vapor Density (Air=1) : No data available.

Vapor Pressure (mm Hg) : No data available.



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Evaporation Rate (BuAc=1) : No data available.

10. STABILITY AND REACTIVITY:

Reactivity : Contact with acids liberates toxic gas.

Chemical stability Material is stable under ambient conditions. (Room temperature). Exposure to moisture.

Possibility of hazardous

Generates dangerous gases or fumes in contact with: Acids reactions

Heat, sparks, flames. Sunlight. Conditions to avoid

Incompatible materials No data available.

Hazardous decomposition

In the event of fire: see section 5 products

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : No data available.

Inhalation No data available.

Skin contact No data available.

Eye contact : Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 Rat - male and female - 1.540 mg/kg

Dermal Product LD 50 Rat - male and female - > 2.000 mg/kg

Inhalation Product LD 50 Rat - male and female - 4 h - > 5,5 mg/l - aerosol

Repeated dose toxicity

Product

: No data available.

Skin corrosion/irritation

Product

: No data available.

Serious eye damage/eye

irritation Product Respiratory or skin : Causes serious eye damage.

sensitization Product **Carcinogenicity Product** Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

This substance has no evidence of carcinogenic properties

IARC Monographs on the

Evaluation of Carcinogenic

: No carcinogenic components identified.

Risks to Humans



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US. National Toxicology

Program (NTP) Report on

Carcinogens

: No carcinogenic components identified.

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050 Germ cell mutagenicity : No carcinogenic components identified.

In vitro Product

: No data available.

Reproductive toxicity

Product

No components toxic to reproduction.

Specific target organ

toxicity - single exposure

Product

Not known.

Specific target organ

toxicity - repeated

None known.

exposure Product

Aspiration hazard Product

No data available.

Other effects

None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product

Product

: LC 50 (Western mosquitofish (Gambusia affinis), 96 h): > 1,400 mg/l.

Aquatic invertebrates

: LC 50 (Water flea (Daphnia magna), 24 h): 10,000 mg/l.

Toxicity to algae

: ErC50 - Desmodesmus subspicatus (green algae) - 43,8 mg/l -

Toxicity to bacteria

: EC50 - activated sludge - > 1.000 mg/l

Chronic hazards to the aquatic environment

Fish Product

: No data available.

Aquatic invertebrates

Product

No data available.

Toxicity to Aquatic Plants

Product:

No data available.

Persistence and degradability

Biodegradation Product

The methods for determining the biological degradability are not applicable to inorganic

substances.

BOD/COD ratio Product

No data available.

Bioaccumulative potential



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Bioconcentration factor

(BCF) Product

: No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

Product

: No data available.

Mobility in soil : No data available.

Other adverse effects : No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal

recommendations are based on uncontaminated material.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container

is emptied.

14. TRANSPORT INFORMATION:

UN No. UN proper shipping Hazard Packaging Marine

name Class(es) group Pollutant

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DOTSodium MetabisulphiteNot dangerous goods**IMDG**Sodium MetabisulphiteNot dangerous goodsIATASodium MetabisulphiteNot dangerous goods

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



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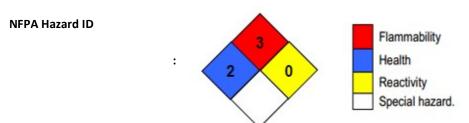
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16. OTHER INFORMATION:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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