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MATERIAL SAFETY DATA SHEET

CAS Number: 7631-99-4

Version:01

PRODUCT NAME: SODIUM NITRATE

1. IDENTIFICATION:

Product Code : 90246, 90555, 91623

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

Address W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,

NAVI MUMBAI - 400 701.

E-mail : sales@adventchembio.com

WEBSITE : www.adventchembio.com

Company Phone Number : 022-27690837

2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Oxidizing solids : Category 3

Health hazards

Acute toxicity, Oral : Category 4

Serious eye damage/eye

irritation

Hazard symbol

Category 2

Labels elements :

Signal word : Warning

Hazard statement May intensify fire; oxidizer.

: Toxic if swallowed.

Causes serious eye irritation.

Precautionary statement

Prevention: Obtain special instructions before use.

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.

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

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

present and easy to do. Continue rinsing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage : Store in a dry & well-ventilated place. Keep container tightly closed.



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: Dispose of contents/container to an appropriate treatment and disposal facility in Disposal

accordance with applicable laws and regulations, and product characteristics at time of

disposal.

Other hazards which do not

result in GHS classification

No data available.

3.	COMPOSITION/	INFORMATION	ON INGRADIENTS:
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Ingredient	CAS Number	Percent	Hazardous
Sodium Nitrate	7631-99-4	99- 100%	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

lungs.

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.

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

lenses. Get medical attention.

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

lenses. Get medical attention.

Most important

symptoms/effects, acute

and delayed

Indication of immediate medical attention and special treatment needed

Irritating to eyes, respiratory system and skin. Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.

: Treat symptomatically.

FIRE FIGHTING MEASURES:

General information : No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

No data available.

Specific hazards arising

from the chemical

May intensify fire; oxidizer. Contact with combustible material may cause fire. During fire,

gases hazardous to health may be formed.

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

without risk.



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Special protective equipment for fire-fighters

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

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

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures 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 up

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.

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

 $\label{eq:contaminate} \text{Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do}$

so. Avoid discharge into drains, water courses or onto the ground.

7. 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. 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. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry,

Conditions for safe storage, including any incompatibilities

well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Store away from incompatible materials. Eliminate sources of ignition.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Occupational exposure

limits

None of the components have assigned exposure limits.

Appropriate engineering

controls

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 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.

General information



Hygiene measures

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

Hand protection . Chemical resistant gloves.

Other . Wear suitable protective clothing.

exposure limits (where applicable) or to an acceptable level (in countries where exposure

limits have not been established), an approved respirator must be worn.

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 : Colourless, deliquescent crystals or crystalline powder.

Odor : Odorless

Solubility in water : 874 g/l at 20 °C - soluble

Solubility : No data available.

Formula : NaNO₃

Molecular Weight : 84.99 g/mol

Specific Gravity : 2.26 (20 °C)

pH : No data available.

% Volatiles by volume @

21C (70F)

: No data available.

Boiling Point : 380°C

Melting Point : 308°C

Flash Point : No data available.

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

Vapor Pressure (mm Hg) : No data available.

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

10. STABILITY AND REACTIVITY:

Reactivity : Contact with combustible material may cause fire.

Chemical stability : The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous

reactions

: Hazardous polymerization does not occur.

Conditions to avoid : Heat, sparks, flames. Sunlight.



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Strong acids, Strong reducing agents, Powdered metals, Organic materials, Alkali metals,

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Incompatible materials

Alkaline earth metals, Cyanides, thiocyanates.

Hazardous decomposition

products

By heating and fire, toxic vapors/gases may be formed.

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : May cause irritation of the gastrointestinal tract.

Inhalation : May cause irritation to the respiratory system.

Skin contact : Causes mild skin irritation

Eye contact : Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product LD 50 (Rat): 1,267 mg/kg

LD 50 (Mouse): 2,480 mg/kg LD 50 (Rabbit): 1,600 mg/kg LD 50 (Rabbit): 1,955 mg/kg LD 50 (Rabbit): 2,680 mg/kg

Dermal Product : LD 50 Rat - male and female - > 5.000 mg/kg

Inhalation Product . No data available.

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

Product

Prolonged or repeated skin contact may cause drying, cracking, or irritation

Serious eye damage/eye

irritation Product

Irritating to eyes.

Respiratory or skin

Not a skin sensitizer.

sensitization Product
Carcinogenicity Product

: This substance has no evidence of carcinogenic properties

IARC Monographs on the

Evaluation of Carcinogenic

: No carcinogenic components identified.

Risks to Humans

US. National Toxicology

Program (NTP) Report on

: No carcinogenic components identified.

Carcinogens

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050

Germ cell mutagenicity

: No carcinogenic components identified.



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No components toxic to reproduction.

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In vitro Product No data available.

Reproductive toxicity

Product

Specific target organ

toxicity - single exposure

Product

Specific target organ

toxicity - repeated

exposure Product

Aspiration hazard Product

Other effects None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product : No data available.

Specified substance(s):

SODIUM NITRATE

LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 7 d): 1,001 - 1,125 mg/l

Mortality

Not known.

None known.

No data available.

LC 50 (Chinook salmon (Oncorhynchus tshawytscha), 7 d): 1,023 - 1,149 mg/l Mortality LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 7 d): 778.9 - 1,048 mg/l

LC 50 (Chinook salmon (Oncorhynchus tshawytscha), 7 d): 860.7 - 939.7 mg/l Mortality

LC 50 (Western mosquitofish (Gambusia affinis), 24 h): 11,800 mg/l Mortality

Aquatic invertebrates

Product

No data available.

Specified substance(s):

SODIUM NITRATE

: EC 50 (American or virginia oyster (Crassostrea virginica), 96 h): 2,600 mg/l Intoxication EC 50 (American or virginia oyster (Crassostrea virginica), 96 h): 3,800 mg/l Intoxication EC 50 (American or virginia oyster (Crassostrea virginica), 96 h): 4,280 mg/l Intoxication EC 50 (American or virginia oyster (Crassostrea virginica), 96 h): 6,230 mg/l Intoxication EC 50 (Northern quahog or hard clam (Mercenaria mercenaria), 96 h): > 4,500 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

There are no data on the degradability of this product.

BOD/COD ratio Product

No data available.



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Bioaccumulative potential

Bioconcentration factor

(BCF) Product
Partition coefficient n-

Other adverse effects

octanol / water (log Kow)

Product

Mobility in soil

: No data available on bioaccumulation.

: No data available.

: The product is partly soluble in water. May spread in the aquatic environment.

The product components are not classified as environmentally hazardous. However, this

does not exclude the possibility that large or frequent spills can have a harmful or damaging

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effect on the environment.

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:

DOT	UN No. UN 1498	UN proper shipping name Sodium Nitrate	Hazard Class(es) 5.1	Packaging group III	Marine Pollutant No
IMDG	UN 1498	Sodium Nitrate	5.1	111	No
IATA	UN 1498	Sodium Nitrate	5.1	III	No



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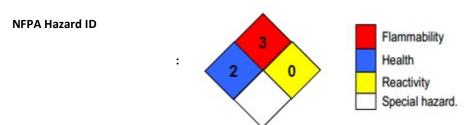
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15. REGULATORY INFORMATION:

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.

16. OTHER INFORMATION:



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

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Version : 01

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