

Safety Data Sheet

Date of issue: 15/01/2024 Revision date: 15/01/2024 Version: #2

SECTION 1: Identification

1.1. Identification

 Product name
 : Sodium Nitrate

 EC number
 : 231-554-3

 CAS-No.
 : 7631-99-4

 Formula
 : NaNO₃

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Chemical, oxidising agent, food industry, pharmaceuticals

1.3. Supplier

FARSA Group Ltd Sales@farsagroup.az

1.4. Emergency contacts

Emergency number : +994512707856

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008) : Physical and Chemical

Hazards

Ox. Sol. 2 - H272

Human health Eye Irrit. 2 - H319 Environment: Not classified

2.2. Label elements

Label In Accordance With (EC) No.

1272/2008

(!)<

Signal word : Danger

Hazard statements: H272 May intensify fire; oxidiser.
H319 Causes serious eye irritation.

Precautionary statements : P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P220 Keep away from combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash

contaminated skin thoroughly after handling.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with national regulations.

Other hazards : Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances

Product name	SODIUM NITRATE	
REACH Registration number	01-2119488221-41	
CAS-No	7631-99-4	
EC No	231-554-3	
Composition Comments	The data shown are in accordance with the latest EC Directives.	

15/01/2024 EN (English) 1/5

Safety Data Sheet

SECTION 4: First-aid measures

4.1. Description of first aid measures

Inhalation : Move into fresh air and keep at rest. Get medical attention.

Ingestion : Rinse mouth thoroughly. Drink plenty of water. DO NOT induce vomiting. Get medical attention

immediately. Never give liquid to an unconscious person.

Skin contact : Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact : Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and

open eyes wide apart. Consult a physician for specific advice. Most important symptoms and

effects, both acute and delayed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat according to symptoms: Treat with Tolunium chloride to reverse Methaemoglobinanaemia Inhale Corticosteroid dose aerosol.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Extinguishing media : Water spray, fog or mist.
Unsuitable extinguishing media : Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

Specific hazards : When heated and in case of fire, toxic vapours/gases may be formed. Nitrous gases (NOx).

5.3. Advice for firefighters

Special Fire Fighting Procedures

: Water spray should be used to cool containers. Dike and collect extinguishing water.

: Self-contained breathing apparatus and full protective clothing must be worn in case of

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Provide adequate ventilation.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body

6.3. Methods and materials for containment and cleaning up

Avoid dust formation. Shovel into dry containers. Cover and move the containers. Flush the area with water.

6.4. Reference to other section

For personal protection, see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide good ventilation. Mechanical ventilation or local exhaust ventilation may be required. Avoid acids, moisture, and combustible materials. Keep away from heat, sparks and open flame.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Avoid contact with oxidising agents. Store in tightly closed original container in a dry, cool and well-ventilated place. Store isolated from reducing agents.

Storage class : Oxidizer storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL

Industry	Inhalation.	Long Term	Systemic Effects	36.7 mg/m3
	Dermal	Long Term	Systemic Effects	20.8 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	12.5 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	10.9 mg/m3
Consumer	Oral	Long Term	Systemic Effects	12.5 mg/kg/day

15/01/2024 EN (English) 2/5

Safety Data Sheet

PNEC

Freshwater 0.45 mg/l Marine water 0.045 mg/l Intermittent release 4.5 mg/l STP 18 mg/l

8.2. **Exposure controls**

Protective equipment





Process conditions Engineering measures Respiratory equipment

Provide eyewash station. Provide adequate ventilation.

Use respiratory equipment with particle filter, type P1.

Hand protection The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection Other protection

Wear approved safety goggles. Wear rubber apron. Wear rubber footwear.

Hygiene measures Wash hands after contact. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

Appearance

Appearance	Crystalline powder.	Bulk density	1300 kg/m3
Colour	White / off-white.	pH-Value, Diluted Solution	8 - 9 0.1
Odour	Slight odour.	Solubility Value (G/100G H2O@20°C)	87.4
Solubility	Soluble in water. Hygroscopic Insoluble in: Methanol. Ethanol.	Decomposition temperature (°C)	>550
Melting point (°C)	307	Relative density	2.26 @ 20°C

Other information

Molecular weight : 84.99

SECTION 10: Stability and reactivity

Reactivity

No specific reactivity hazards associated with this product.

10.2. **Chemical stability**

The substance is hygroscopic and will absorb water by contact with the moisture in the air.

Possibility of hazardous reaction

Contact with combustible material may cause fire.

10.4. **Conditions to avoid**

Avoid contact with strong reducing agents. Avoid contact with strong oxidizers. Avoid heat.

Strong oxidising substances. Strong reducing agents. Flammable/combustible material. Ammonia or amines.

Hazardous decomposition products

Nitrous gases (NOx). Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxygen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	3430 mg/kg	Rat		
Dermal	LD50	> 5000 mg/kg Rat	Rat		

Skin corrosion/irritation : Not irritating

15/01/2024 EN (English) 3/5

Safety Data Sheet

Serious eye damage/eye irritation : Irritating

Respiratory or skin sensitisation Skin sensitisation

Local Lymph Node Assay (LLNA) Mouse

Not Sensitizing.

Reproductive Toxicity Reproductive Toxicity - Fertility

NOAEL 1500 mg/kg/day Oral Reproductive Toxicity - Development Teratogenicity: NOAEL 1500 mg/kg/day Oral

Specific target organ toxicity - repeated

Ingestion

STOT - Repeated exposure NOAEL 1500 mg/kg Oral Rat

Inhalation

Dust in high concentrations may irritate the respiratory system. Vapour from this chemical can be hazardous when inhaled. Inhalation of vapour or mist may cause lung oedema.

May cause discomfort if swallowed.

Powder may irritate skin. Skin contact

Eye contact May cause severe irritation to eyes.

SECTION 12: Ecological information

Ecotoxicity

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 effect on the environment.

12.2. **Toxicity**

Toxicity				
Endpoint	Value	Species	Source	Exposure time
LC50	7950 ^{mg} / _l	fish	ECHA	96 h

Acute toxicity (microorganisms)

<u> </u>				
Endpoint	Value	Species	Source	Exposure time
EC50	1000 ^{mg} /l	Activated sludge	ECHA	3 h

Process of degradability

There are no data on the degradability of this product.

Bioaccumulative potential

The product is not bioaccumulating.

Mobility in soil

The product is soluble in water.

Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

SECTION 13: Disposal considerations

Waste treatment methods

General information : Waste is classified as hazardous waste. Disposal to licensed waste disposal site in

accordance with the local Waste Disposal Authority. Do not puncture or incinerate even when

Disposal methods Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: Transport information

General information : Full protective clothing should be worn when handling this product.

UN number

UN Number Road : 1498 UN No. (IMDG) : 1498 UN No. (ICAO) : 1498

UN proper shipping name 14.2.

SODIUM NITRATE

Transport hazard class(es)

ADR/RID/ADN Class : 5.1

ADR/RID/ADN Class : Class 5.1: Oxidising substances.

ADR Label No.

15/01/2024 EN (English) 4/5

Safety Data Sheet

IMDG Class : 5.1 ICAO Class/Division : 5.1

Transport label



Packing group

ADR/RID/ADN Packing group : ||| **IMDG Packing group** : ||| **ICAO Packing group** : 111

Environmental hazards

Environmentally hazardous substance/marine: No

pollutant

14.6. EMS Special precautions for user

: F-A, S-Q **Emergency Action Code** : 1Z Hazard No. (ADR) : 50 **Tunnel Restriction Code** : (E)

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code : Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Note

: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

SECTION 16: Other information

Risk Phrases in Full

: R8 Contact with combustible material may cause fire.

Hazard Statements in Full

: H272 May intensify fire; oxidiser. H319 Causes serious eye irritation.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

15/01/2024 EN (English) 5/5