

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/4/2024 $\,$ Version: 1.0

SECTION 1. Llordefication	
SECTION 1: Identification 1.1. Identification	
	. Sub-tener
Product form Substance name	: Substance : SODIUM NITRATE
CAS-No.	: 7631-99-4
Product code	: ARF10066
Formula	: HNO3.Na
1.2. Recommended use and restrictions on us	
Use of the substance/mixture	: Laboratory chemicals
1.3. Supplier	
Alpha Resources LLC	
3090 Johnson Rd.	
Stevensville, Michigan 49127	
USA	
T (269)465-5559	
info@alpharesources.com - www.alpharesources.com	!
1.4. Emergency telephone number	
Emergency number	: CHEMTREC Emergency Phone Number: (800) 424-9300
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixtur	e
GHS US classification	
Oxidizing solids Category 2	H272 May intensify fire; oxidizer
Serious eye damage/eye irritation Category 2A	H319 Causes serious eye irritation
Full text of H statements : see section 16	
2.2. GHS Label elements, including precaution	bnary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: H272 - May intensify fire; oxidizer
	H319 - Causes serious eye irritation
Precautionary statements (GHS US)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P220 - Keep/Store away from clothing and other combustible materials
	P221 - Take any precaution to avoid mixing with combustibles
	P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P370+P378 - In case of fire: Use media other than water to extinguish.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with
	local, regional, national and/or international regulation.
2.3. Other hazards which do not result in cla	
No additional information available	

2.4. Unknown acute toxicity (GHS US)

No additional information available

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SECTION 3: Composition/Information 6 3.1. Substances	on ingredients		
Name	Product identifier	%	GHS US classification
SODIUM NITRATE (Main constituent)	CAS-No.: 7631-99-4	100	Ox. Sol. 2, H272 Eye Irrit. 2A, H319
Full text of hazard classes and H-statements : see secti 3.2. Mixtures	on 16	1	

Not applicable

SECTION 4: First-aid measures 4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effects (a	acute and delayed)
Symptoms/effects after eye contact	: Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing med	lia	
Suitable extinguishing media	: Water spray. Dry powder. Foam.	
5.2. Specific hazards arising from the chemical		
Fire hazard	: May intensify fire; oxidizer.	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and precautions for fire-fighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment an	d emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures :	Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment :	Do not attempt to take action without suitable protective equipment. For further information refer to
	section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment and cle	aning up
Methods for cleaning up :	Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information :	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

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SECTION 7: Handling and storage 7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including any i	ncompatibilities
Storage conditions Incompatible materials	Store in a well-ventilated place. Keep cool.Combustible materials.

SECTION 8: Exposure controls/personal protection 8.1. Control parameters

SODIUM NITRATE (7631-99-4)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls Ensure good ventilation of the work station.Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves
Eye protection:
Safety glasses
ikin and body protection:
Vear suitable protective clothing
Respiratory protection:
n case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

Physical state	: Solid
5	
Appearance	: Powder.
Color	: white
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 307 °C
Freezing point	: Not applicable
Boiling point	: 550 °C
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.

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Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	

May intensify fire; oxidizer. 10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Combustible materials.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information 11.1. Information on toxicological effects	n Terretaria de la constante de la	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
SODIUM NITRATE (7631-99-4)		
LD50 oral rat	3236 mg/kg	
ATE US (oral)	3236 mg/kg body weight	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	

Symptoms/effects after eye contact : Eye irritation.

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SECTION 12: Ecological information 12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available 12.3. Bioaccumulative potential	
No additional information available 12.4. Mobility in soil	
No additional information available 12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations 13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information In accordance with DOT / TDG / IMDG / IATA 14.1. UN number	
DOT NA No	: UN1498
UN-No. (TDG) UN-No. (IMDG)	: UN1498 : 1498
UN-No. (IATA) 14.2. UN proper shipping name	: Not applicable
Proper Shipping Name (DOT)	: Sodium nitrate
Proper Shipping Name (TDG) Proper Shipping Name (IMDG)	: SODIUM NITRATE : SODIUM NITRATE
Proper Shipping Name (IATA)	: Not applicable
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: 5.1
Hazard labels (DOT)	: 5.1
	OXIDIZER 5.1
TDG	
Transport hazard class(es) (TDG) Hazard labels (TDG)	: 5.1 : 5.1
	5.1
IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: 5.1 : 5.1

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IATA	
IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT)	: Ш
Packing group (TDG)	: 111
Packing group (IMDG)	
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT	
UN-No.(DOT)	: UN1498
DOT Special Provisions (49 CFR 172.102)	: A1 - Single packaging are not permitted on passenger aircraft.
	A29 - Combination packaging consisting of outer expanded plastic boxes with inner plastic bags are not
	authorized for transportation by aircraft.
	B120 - The use of flexible bulk containers conforming to the requirements in subpart R and subpart S of
	part 178 of this subchapter is permitted.
	IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1,
	11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2);
	Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2,
	13L3, 13L4, 13M1 or 13M2).
	IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-
	resistant liner.
	T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2)
	TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids
	and for solids which are filled and discharged at temperatures above their melting point which are cooled
	and transported as a solid mass. Solid substances transported or offered for transport above their melting
	point are authorized for transportation in portable tanks conforming to the provisions of portable tank
	instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II,
	unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working
	pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank
	instruction and special provisions shall apply. Filling limits must be in accordance with portable tank
	special provision TP3. Solids meeting the definition of an elevated temperature material must be
	transported in accordance with the applicable requirements of this subchapter.
	W1 - This substance in a non friable prill or granule form is not subject to the requirements of this
	subchapter when tested in accordance with the UN Manual of Test and Criteria (IBR, see §171.7 of this
DOT Basha sing Essention (40 CEP 172	subchapter) and is found to not meet the definition or criteria for inclusion in Division 5.1.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 152 : 213
DOT Packaging Non Bulk (49 CFR 173.xxx)	
DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49	: 240 : 25 kg
CFR 173.27)	. 23 ng
DOT Quantity Limitations Cargo aircraft only (49 CFR	: 100 kg
175.75)	· 100 mg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
TDG	
UN-No. (TDG)	: UN1498
Explosive Limit and Limited Quantity Index	: 5 kg
Excepted quantities (TDG)	: E1

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Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 25 kg
Emergency Response Guide (ERG) Number	: 140
IMDG	
Special provision (IMDG)	: 964,967
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1, BK2, BK3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-Q - SPILLAGE SCHEDULE Quebec - OXIDIZING SUBSTANCES
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
Properties and observations (IMDG)	: Colourless deliquescent solid. Soluble in water. Mixtures with combustible material are readily ignited and may burn fiercely. Harmful if swallowed. This substance in the impure form is known as Chile Saltpetre.

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
SODIUM NITRATE	7631-99-4	Present	Active	

15.2. International regulations

CANADA

SODIUM NITRATE (7631-99-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

SODIUM NITRATE (7631-99-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information				
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Full text of H-phrases				
H272	May intensify fire; oxidizer			
H319	Causes serious eye irritation			

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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.