

 Safety Data Sheet

 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

 Supersedes: 05/05/2015

 Revision date: 04/04/2018

 Supersedes: 05/05/2015

Neutron <sup>®</sup> Pharmachemical Co. Manufacturer of Laboratory Chemical & Pharmaceutical Materials	Date of issue: 05/05/2015	Revision date: 04/04/2018	Supersedes: 05/05/2015	Version: 1.1
SECTION 1: Identification				
1.1. Identification				
Product form	: Substance			
Substance name	: Sodium Nitrat	e, ACS		
CAS-No.	: 7631-99-4			
Product code	: 1.2520			
Formula	: NaNO3			
1.2. Recommended use and res	strictions on use			
Use of the substance/mixture	: For laboratory	and manufacturing use only.		
Recommended use	: Laboratory ch	emicals		
Restrictions on use	: Not for food, o	Irug or household use		
1.3. Supplier				
NEUTRON PHARMACHEMICAL CO				
98, 9th Floor, Borjsaz Building, Azadi A T 021-66906732-3 - F 021-66581408 info@neutronpharmachemical.com - www.neutronpharmachemical.com	ve, Tehran, Iran.			
1.4. Emergency telephone num	ber			
Emergency number	: CHEMTREC:	ر125		
SECTION 2: Hazard(s) identif	ication			
2.1. Classification of the substa	ance or mixture			

#### **GHS-US classification**

2.2.

**GHS-US** labeling

Oxidizing solids Category 3 Skin corrosion/irritation Category 2	H272 H315	May intensify fire; oxidizer Causes skin irritation
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Carcinogenicity Category 1B	H350	May cause cancer (oral)
Specific target organ toxicity (single exposure) Category 3	H335	May cause respiratory irritation
Specific target organ toxicity (repeated exposure) Category 2	H373	May cause damage to organs (blood, heart, liver) through prolonged or repeated exposure (oral)

Full text of H statements : see section 16

GHS Label elements, including precautionary statements

Hazard pictograms (GHS-US)	: GHS03 GHS07 GHS08	
Signal word (GHS-US)	: Danger	
Hazard statements (GHS-US)	<ul> <li>H272 - May intensify fire; oxidizer</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> <li>H350 - May cause cancer (oral)</li> <li>H373 - May cause damage to organs (blood, heart, liver) through prolonged or repeat</li> <li>exposure (oral)</li> </ul>	ed
Precautionary statements (GHS-US)	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P210 - Keep away from heat, sparks, open flames, hot surfaces No smoking.</li> </ul>	
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		P221 - Take any property P260 - Do not breat P264 - Wash expose P271 - Use only out P280 - Wear protect P302+P352 - IF ON P304+P340 - IF INI comfortable for breat P305+P351+P338 - lenses, if present an P308+P313 - IF exp P312 - Call a POISC P332+P313 - If skin P337+P313 - If skin P337+P313 - If skin P370+P378 - In cas P403+P233 - Store P405 - Store locked	ed skin thoroughly after handlin tdoors or in a well-ventilated are tive gloves, protective clothing, of I SKIN: Wash with plenty of soap HALED: Remove victim to fresh athing. I fin eyes: Rinse cautiously with nd easy to do. Continue rinsing bosed or concerned: Get medica ON CENTER or doctor/physiciar or irritation occurs: Get medical as irritation persists: Get medical as traminated clothing and wash be se of fire: Use sand, extinguishin in a well-ventilated place. Keep	mbustible g. a. eye protect p and wat air and ke n water for al advice/at dvice/atten dvice/atten dvice/atten fore reusa container	s ction, face protection. er. eep at rest in a position r several minutes. Remove contact attention. el unwell. ntion. e. r to extinguish r tightly closed.
2.3.	Other hazards which do not result in	n classification			
-	nazards not contributing to the	: None under normal	conditions.		
2.4.	Unknown acute toxicity (GHS US)				
Vot ap	plicable				
SECT	ION 3: Composition/Informatio	n on ingredients			
3.1.	Substances				
Substa	nce type	: Mono-constituent			
Name	9		Product identifier	%	GHS-US classification
	n Nitrate, ACS constituent)		(CAS-No.) 7631-99-4	100	Ox. Sol. 3, H272 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 1B, H350 STOT SE 3, H335 STOT RE 2, H373
· · · · · · · · · · · · · · · · · · ·					
-ull te>	t of hazard classes and H-statements : se	e section 16			
-ull te> 3.2.	t of hazard classes and H-statements : se Mixtures	e section 16		1	
3.2.		e section 16			
<mark>3.2.</mark> Not ap	Mixtures	e section 16			
8.2. Not ap	Mixtures plicable	e section 16			
8.2. Not ap SEC1	Mixtures plicable TION 4: First-aid measures	: Never give anything advice (show the la	y by mouth to an unconscious pe bel where possible).	,	
8.2. Not ap <b>SECT</b> I.1. First-ai	Mixtures plicable TION 4: First-aid measures Description of first aid measures d measures general d measures after inhalation	<ul> <li>Never give anything advice (show the la</li> <li>Remove victim to fr POISON CENTER</li> </ul>	bel where possible). esh air and keep at rest in a pos or doctor/physician if you feel ur	ition comf	fortable for breathing. Call a
8.2. Jot ap <b>SEC1</b> I.1. First-ai	Mixtures plicable TION 4: First-aid measures Description of first aid measures d measures general	<ul> <li>Never give anything advice (show the la</li> <li>Remove victim to fr POISON CENTER</li> <li>Wash with plenty of occurs: Get medica</li> </ul>	bel where possible). esh air and keep at rest in a pos or doctor/physician if you feel ur soap and water. Wash contami I advice/attention.	ition comf well. nated clot	fortable for breathing. Call a thing before reuse. If skin irritation
8.2. Not ap BECT I.1. First-ai First-ai	Mixtures plicable TION 4: First-aid measures Description of first aid measures d measures general d measures after inhalation	<ul> <li>Never give anything advice (show the la</li> <li>Remove victim to fr POISON CENTER</li> <li>Wash with plenty of occurs: Get medica</li> <li>Rinse cautiously with do. Continue rinsing</li> </ul>	bel where possible). esh air and keep at rest in a pos or doctor/physician if you feel ur soap and water. Wash contami I advice/attention. th water for several minutes. Re g. If eye irritation persists: Get m	ition comf well. nated clot move con edical adv	fortable for breathing. Call a thing before reuse. If skin irritation tact lenses, if present and easy to vice/attention.
3.2. Not ap <b>SEC1</b> I.1. First-ai First-ai	Mixtures plicable TION 4: First-aid measures Description of first aid measures d measures general d measures after inhalation d measures after skin contact	<ul> <li>Never give anything advice (show the la</li> <li>Remove victim to fr POISON CENTER</li> <li>Wash with plenty of occurs: Get medica</li> <li>Rinse cautiously with do. Continue rinsing</li> </ul>	bel where possible). esh air and keep at rest in a pos or doctor/physician if you feel ur soap and water. Wash contami I advice/attention. th water for several minutes. Re	ition comf well. nated clot move con edical adv	fortable for breathing. Call a thing before reuse. If skin irritation tact lenses, if present and easy to vice/attention.
3.2. Not ap SECT SITST-ai First-ai First-ai First-ai	Mixtures plicable TION 4: First-aid measures Description of first aid measures d measures general d measures after inhalation d measures after skin contact d measures after eye contact	<ul> <li>Never give anything advice (show the la</li> <li>Remove victim to fr POISON CENTER</li> <li>Wash with plenty of occurs: Get medica</li> <li>Rinse cautiously with do. Continue rinsing</li> <li>Rinse mouth. Do No</li> </ul>	bel where possible). esh air and keep at rest in a pos or doctor/physician if you feel ur soap and water. Wash contami I advice/attention. th water for several minutes. Re g. If eye irritation persists: Get m OT induce vomiting. Obtain eme	ition comf well. nated clot move con edical adv	fortable for breathing. Call a thing before reuse. If skin irritation tact lenses, if present and easy to vice/attention.
3.2. Not ap SEC I.1. First-ai First-ai First-ai First-ai First-ai Sympto	Mixtures plicable TON 4: First-aid measures Description of first aid measures d measures general d measures after inhalation d measures after skin contact d measures after eye contact d measures after ingestion	<ul> <li>Never give anything advice (show the la Remove victim to fr POISON CENTER</li> <li>Wash with plenty of occurs: Get medica</li> <li>Rinse cautiously wit do. Continue rinsing</li> <li>Rinse mouth. Do No</li> </ul>	bel where possible). esh air and keep at rest in a pos or doctor/physician if you feel ur soap and water. Wash contami I advice/attention. th water for several minutes. Re g. If eye irritation persists: Get m OT induce vomiting. Obtain eme (Ingestion). Causes damage to c	ition comf well. nated clot move con edical adv	fortable for breathing. Call a thing before reuse. If skin irritation tact lenses, if present and easy to vice/attention. edical attention.

- Symptoms/effects after skin contact : Causes skin irritation.
- Symptoms/effects after eye contact : Causes serious eye irritation.
- Symptoms/effects after ingestion : Nausea. Vomiting.

4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance. Treat symptomatically.

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SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	ng media
Suitable extinguishing media	: Foam. Dry powder. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Specific hazards arising from the che	mical
Fire hazard	: May intensify fire; oxidizer.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
5.3. Special protective equipment and pre	ecautions for fire-fighters
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
General measures	: No naked lights. No smoking.
6.1.1. For non-emergency personnel	
Protective equipment	: Safety glasses. Protective clothing. Gloves. Dust mask.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	· Equip cleanup arow with proper protection
Protective equipment	: Equip cleanup crew with proper protection. : Ventilate area.
Emergency procedures	. voninalo alda.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify	
6.3. Methods and material for containmer	
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal p	rotection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Hazardous waste due to potential risk of explosion.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Take any precaution to avoid mixing with Combustibles. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash exposed skin thoroughly after handling.
7.2. Conditions for safe storage, including	g any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : combustible materials, Heat sources, Ignition sources. Keep in fireproof place. Keep container tightly closed.
Incompatible products	: Strong oxidizers. Strong reducing agents. combustible materials.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources. Combustible material.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

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### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

### Gas mask. Gloves. Safety glasses.



#### Hand protection:

Wear protective gloves.

### Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

Respiratory protection not required in normal conditions

#### Other information:

Do not eat, drink or smoke during use.

<b>SECTION 9: Physical and chemical</b>	properties	
9.1. Information on basic physical and	chemical properties	
Physical state	: Solid	
Appearance	: Crystalline solid.	
Color	: white	
Odor	: None.	
Odor threshold	: No data available	
рН	: 5.5 - 8.5 5% aqueous solution	
Melting point	: 306 °C	
Freezing point	: No data available	
Boiling point	: 380 °C	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 2.261 g/cm <sup>3</sup>	
Molecular mass	: 84.99 g/mol	
Solubility	: Soluble in water. Soluble in ethanol. Soluble in methanol. Soluble in ammonia. Water: 92.1 g/100ml	
Log Pow	: -3.8	
Auto-ignition temperature	: No data available	
Decomposition temperature	: 380 °C	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
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Explosive properties	: No data available
Oxidizing properties	: May intensify fire; oxidizer.
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
May intensify fire; oxidizer.	
10.3. Possibility of hazardous reactions	
Reacts exothermically with combustible materials	s: (increased) risk of fire
-	
10.4. Conditions to avoid Direct sunlight. Extremely high or low temperatur	res Heat Sparks Overheating Open flame
10.5. Incompatible materials	ustible metaziale
Strong reducing agents. Strong oxidizers. combu	
10.6. Hazardous decomposition products	
Nitrogen oxides oxvgen	
Nitrogen oxides. oxygen.	
SECTION 11: Toxicological informati	ion
	ion
SECTION 11: Toxicological information on toxicological effects	
SECTION 11: Toxicological information in toxicological effects Likely routes of exposure	: Inhalation; Skin and eye contact
SECTION 11: Toxicological information on toxicological effects Likely routes of exposure Acute toxicity	
SECTION 11: Toxicological information 11.1. Information on toxicological effects Likely routes of exposure Acute toxicity Sodium Nitrate, ACS (7631-99-4)	: Inhalation; Skin and eye contact : Not classified
SECTION 11: Toxicological information 11.1. Information on toxicological effects Likely routes of exposure Acute toxicity Sodium Nitrate, ACS (7631-99-4) LD50 oral rat	: Inhalation; Skin and eye contact : Not classified > 2000 mg/kg
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: Based on available data, the classification criteria are not met.

LC50 fish 1

12.1.

symptoms

Potential Adverse human health effects and

**SECTION 12: Ecological information** 

Symptoms/effects after inhalation

Symptoms/effects after skin contact

Symptoms/effects after eye contact

Sodium Nitrate, ACS (7631-99-4)

Symptoms/effects after ingestion

Toxicity

: May cause respiratory irritation.

: Causes serious eye irritation.

: Causes skin irritation.

: Nausea. Vomiting.

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12.2. Persistence and degradability	
Sodium Nitrate, ACS (7631-99-4)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Sodium Nitrate, ACS (7631-99-4)	
Log Pow	-3.8
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Disposal methods	
Waste disposal recommendations	<ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.</li> </ul>
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1498 Sodium nitrate, 5.1, III
UN-No.(DOT)	: UN1498
Proper Shipping Name (DOT)	: Sodium nitrate
Transport hazard class(es) (DOT)	: 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 5.1 - Oxidizer
	OXIDIZER 51
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>A1 - Single packaging are not permitted on passenger aircraft.</li> <li>A29 - Combination packaging consisting of outer expanded plastic boxes with inner plastic bags are not authorized for transportation by aircraft.</li> <li>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).</li> <li>IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 152
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Sodium Nitrate, ACS (7631-99-4)		
Listed on the United States TSCA (Toxic Substances Col	ntrol Act) inventory	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Reactive hazard Delayed (chronic) health hazard	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2.	nternational regulation	IS
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### CANADA

Sodium Nitrate, ACS (7631-99-4)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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SECTION 16: Other information	
Revision date	: 04/04/2018
Other information	: None.
Full text of H-phrases: see section 16:	
H272	May intensify fire; oxidizer
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H350	May cause cancer
H373	May cause damage to organs through prolonged or repeated exposure
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	<ul> <li>O - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.</li> </ul>
NFPA reactivity	: 2 - Materials that readily undergo violent chemical change at elevated temperatures and pressures.
NFPA specific hazard	: OX - Materials that posses oxidizing properties.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
	* - Chronic (long-term) health effects may result from repeated overexposure
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.
Personal protection	: F
	F - Safety glasses, Gloves, Synthetic apron, Dust respirator

### SDS US LabChem

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.