

# Safety Data Sheet

According to Hazardous Products Regulation (SOR/2015-17)

Revision date: 08.11.2021	Version: 6.4	Print date: 08.11.2021	
SECTION 1: Identification			

## **Product identifier**

Trade name/designation:
Product No.:
Synonymes:
CAS No.:
Other means of identification:

Sodium nitrate, crystallized ACS 83720 none/none 7631-99-4

## Relevant identified uses of the substance or mixture and uses advised against

Recommended Use:	For Further Manufacturing Use Only
Uses advised against:	Not for Human or Animal Drug Use

# Details of the supplier of the safety data sheet

# **Supplier**

VWR International
Street
Postal code/City

Telephone Telefax: 2360 Argentia Road Mississauga, Ontario Canada L5N 5Z7 +1-800-932-5000 toll-free within US/Canada +1-610-728-2103





# **Emergency phone number**

Telephone

+1-613-996-6666 (Canutec, 24 hrs/day, 7 days/week, Canada)

# **Preparation Information**

VWR International - Product Information Compliance

E-mail

SDS@avantorsciences.com

# **SECTION 2: Hazard identification**

# 2.1 Classification of the substance or mixture

# Classification according to Hazardous Products Regulation (SOR/2015-17)

Hazard classes and hazard categories	Hazard statements
Oxidising solid, category 3	H272
Eye irritation, category 2	H319

# 2.2 Label elements

# Labelling in accordance with (SOR/2015-17)

Hazard pictograms



Signal word: Warning

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

Precautionary	
statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep/Store away from clothing/combustible materials.
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.

## Hazards not otherwise classified (HNOC) none/none





# **SECTION 3: Composition / information on ingredients**

#### 3.1 Substances

Substance name	Sodium nitrate
Molecular formula	NaNO3
Molecular weight	84.99 g/mol
CAS No.	7631-99-4

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General information**

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. If unconscious but breathing normally, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

#### In case of inhalation

Call a POISON CENTER/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

#### In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

# 4.2 Most important symptoms/effects, acute and delayed

no data available

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

no data available

# SECTION 5: Fire fighting measures

#### 5.1 Extinguishing media

#### Suitable extinguishing media

The product itself does not burn. May intensify fire; oxidiser. Co-ordinate fire-fighting measures to the fire surroundings.





Extinguishing media which must not be used for safety reasons no restriction

## 5.2 Specific hazards arising from the chemical

In case of fire may be liberated: Nitrogen oxides (NOx)

# 5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives. Protective equipment and precautions for firefighters Wear a self-contained breathing apparatus and chemical protective clothing.

# **Additional information**

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire: Evacuate area.

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

#### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains.

#### 6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated articles and floor according to the environmental legislation. Collect in closed and suitable containers for disposal.

#### 6.4 Additional information

Clear spills immediately.

# SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible: Inhalation skin contact Eye contact Usual measures for fire prevention. Handle under (Gas): Protective gas, dry

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

## 7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: Ambient temperature Keep container tightly closed and in a well-ventilated place.





# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

# 8.2 Engineering controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

*Eye/face protection* Eye glasses with side protection

#### Skin protection

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

By short-term hand contact	
Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,12 mm
Breakthrough time::	> 480 min
By long-term hand contact	
Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,38 mm
Breakthrough time::	> 480 min

#### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

#### Additional information

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

*Environmental exposure controls* no data available





# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

(a) Appearance	
Physical state:	solid
Color:	white
(b) Odour:	no data available
(c) Odour threshold:	no data available

# Safety relevant basic data

(d) pH:	5.5-8 (50 g/l; H2O; 20 °C)
(e) Melting point/freezing point:	308 °C
(f) Initial boiling point and boiling range:	380 °C (1013 hPa)
(g) Flash point:	no data available
(h) Evaporation rate:	no data available
(i) Flammability (solid, gas):	not applicable
(j) Flammability or explosive limits	
Lower explosion limit:	no data available
Upper explosion limit:	no data available
(k) Vapour pressure:	no data available
(I) Vapour density:	no data available
(m) Density:	2.26 g/cm³ (20 °C)
(n) Solubility(ies)	
Water solubility:	874 g/l (20 °C)
(o) Partition coefficient: n-octanol/water:	-3.8 (20 °C)
(p) Auto-ignition temperature:	no data available
(q) Decomposition temperature:	not applicable
(r) Viscosity	
Kinematic viscosity:	no data available
Dynamic viscosity:	no data available
(s) Explosive properties:	not applicable
(t) Oxidising properties:	May intensify fire; oxidiser.
(u) Particle characteristics:	not applicable - no nanoform/not combustible

# 9.2 Other information

Bulk density:
Refraction index:
Dissociation constant:
Surface tension:
Henry's Law Constant:

no data available 1.3404 (589 nm; 25 °C) no data available no data available no data available

# SECTION 10: Stability and reactivity

# 10.1 Reactivity

no data available





# **10.2 Chemical stability**

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

## **10.3** Possibility of hazardous reactions

no data available

## 10.4 Conditions to avoid

no data available

# **10.5 Incompatible materials**

no data available

## **10.6 Hazardous decomposition products**

no data available

#### **10.7 Additional information**

no data available

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### Acute effects

Acute oral toxicity: LD50: > 1267 mg/kg - Rat - (RTECS)

Acute dermal toxicity: no data available

Acute inhalation toxicity: no data available

#### Irritant and corrosive effects

Primary irritation to the skin: not applicable

Irritation to eyes: Causes serious eye irritation.

*Irritation to respiratory tract:* not applicable

#### **Respiratory or skin sensitization**

In case of skin contact: not sensitizing In case of inhalation: not sensitizing

STOT-single exposure not applicable

**STOT-repeated exposure** not applicable





# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

# Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Ingredient	ACGIH	IARC	NTP	OSHA

#### Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

#### Reproductive toxicity

No indications of human reproductive toxicity exist.

# Aspiration hazard

not applicable

#### Other adverse effects

no data available

#### Additional information

no data available

# **SECTION 12: Ecological information**

# 12.1 Ecotoxicity

#### Fish toxicity:

LC50: 2190 mg/l (96 h) - McGurk, M.D., F. Landry, A. Tang, and C.C. Hanks 2006. Acute and Chronic Toxicity of Nitrate to Early Life Stages of Lake Trout (Salvelinus namaycush) and Lake Whitefish (Coregonus clupeaformis). Environ.Toxicol.Chem. 25(8):2187-2196

#### Daphnia toxicity:

LC50: 3580 mg/l (48 h) - Dowden, B.F., and H.J. Bennett 1965. Toxicity of Selected Chemicals to Certain Animals. J.Water Pollut.Control Fed. 37(9):1308-1316

#### Algae toxicity:

no data available

# Bacteria toxicity:

no data available

# 12.2 Persistence and degradability

no data available

# 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: -3.8 (20 °C)

# 12.4 Mobility in soil:

no data available





# 12.5 Results of PBT/vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

# 12.6 Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: no data available

## Appropriate disposal / Package

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

#### Additional information

no data available

# **SECTION 14: Transport information**

# Land transport (TDG)

UN-No.:	1498
Proper Shipping Name:	SODIUM NITRATE
Class(es):	5.1
Packing group:	III
Environmental hazards:	No
Marine pollutant:	No
Special precautions for user:	

# Sea transport (IMDG)

UN-No.: Proper Shipping Name:	1498 SODIUM NITRATE	
Class(es):	5.1	
Classification code:		
Hazard label(s):	5.1	
Packing group:	III	
Environmental hazards:	No	
Marine pollutant:	No	
Special precautions for user:		
Segregation group:	-	
EmS-No.	F-A S-Q	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant		





# Air transport (ICAO-TI / IATA-DGR)

UN-No.:	1498
Proper Shipping Name:	SODIUM NITRATE
Class(es):	5.1
Classification code:	
Hazard label(s):	5.1
Packing group:	III
Special precautions for user:	

# SECTION 15: Regulatory information

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

Domestic Substance List:





# **SECTION 16: Other information**

#### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygiensts DOT - Department of Transportation IARC - International Agency for Research on Cancer IATA-DGR - International Air Transport Association-Dangerous Goods Regulations ICAO-TI - International Civil Aviation Organization-Technical Instructions IMDG - International Maritime Code for Dangerous Goods LTV - Long Term Value NIOSH - National Institute for Occupational Safety and Health NTP - National Toxicology Program OSHA - Occupational Safety & Health Administration PBT - Persistent, Bioaccumulative and Toxic PEL - Permissible Exposure Limit STV - Short Term Value SVHC - Substances of Very High Concern **TDG - Transport of Dangerous Goods** TLV - Threshold Limit Value vPvB - very Persistent, very Bioaccumulative

#### Key literature references and sources for data

This Safety Data Sheet has been prepared based on information available for public as TOXNET information, European Chemicals Agency (ECHA) substance dossier, papers from international cancer research institutes (IARC Monographs), U.S. National Toxicology Program data, U.S. Agency for Toxic Substances and Disease Control (ATSDR), PubChem websites and SDS from our raw material manufacturers.

Revision date	Version	Print date
08.11.2021	6.4	08.11.2021
Additional information		
Indication of changes	Section 2	
	If you need an explanation of the change, contact the supplier (SDS@avantorsciences.	

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guidance. The information in this document is based on the present state knowledge and is applicable to the product with regard to appropriate safty precautions. It does not represent any guarantee of the properties of the product. VWR International and his Affiliates shall not be held liable for any damage resulting from handling.

