

DECACHEM DOO, Novi Sad, Serbia

Address: Lozionicka 14/9, 21000 Novi Sad, Serbia ;
PIB: 113353206 Matični broj: 21851396

[Http://www.decachem.com](http://www.decachem.com)

Phones: +381 63 658 074 / +381 64 27 54 268

Email: office@decachem.com

Sodium Nitrate – NaNO₃ Basic TDS - without anticaking

CAS No: 7631-99-4

EG no: 231-554-3

REACH certified

Packaging: 1000kg/bag (big bag) or 50kg bags

TECHNICAL REQUIREMENTS

No. p/n	Specifications	Grades		Test results
		A	B	
1.	Physical configuration	White transparent crystals with greyish or yellowish tint		
2.	Mass fraction of sodium nitrate on conversion to dry substance, %, no less than	99,8	99,5	
3.	Mass fraction of water, %, no more than	0,5	0,5	
4.	Mass fraction of insoluble substances in water, %, no more than	0,03	0,03	
5.	Mass fraction of chloride salt on conversion to NaCl, %, no more than	0,15	0,3	
6.	Mass fraction of oxidizable substances on conversion to NaNO ₂ , %, no more than	0,010	0,2	
7.	Mass fraction of iron on conversion to Fe ₂ O ₃ , %, no more than	0,001	-	
8.	Mass fraction of chrome on conversion to Cr ₂ O ₃ , %, no more than	0,0001	-	

MATERIAL SAFETY DATA SHEET

Drawn up/Updated: 2023-06-01 / 2023-07-01

1. Identification of the product and the company

1.1 Product's identification

Sodium Nitrate

1.2. Application – Industrial raw material, Additive

1.3 Data of Company - Importer

Supplier details: DECACHEM DOO, Serbia

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21 000 Novi Sad, Serbia, www.decachem.com

Emergency phone: Military medical academy Serbia /VMA

+381 11 266 11 22, +381 11 266 27 55

1.4 Emergency telephone

To company: +38163 658 074 (office hours 8.00-16.00 CET)

Emergency: +381 11 266 11 22, +381 11 266 27 55

Fire department: +381193

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) Oxidizing solids, H272: May intensify fire; oxidizer.

Category 3

Eye irritation, Category 2

H319: Causes serious eye irritation.

Sodium Nitrate A Pow

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Substance key: SC0000104794

Revision Date: 30.11.2017

Version : 2 - 07 EU

Date of printing : 30.10.2019

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H272 May intensify fire; oxidizer.

H319 Causes serious eye irritation.

Precautionary statements :

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.

P220 Keep/Store away from clothing/ ./ /combustible materials.

P264 Wash .? thoroughly after handling.

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

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Response:

P370 + P378 In case of fire: Use .? for extinction.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : sodium nitrate

EC-No. : 231-554-3

Hazardous components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
Sodium nitrate	7631-99-4 231-554-3	>= 90 - <= 100

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : If symptoms persist, call a physician.
Remove/Take off immediately all contaminated clothing.

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- If inhaled : If breathed in, move person into fresh air.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Remove contaminated clothing. If irritation develops, get medical attention.
- In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
Consult a physician.
- If swallowed : Induce vomiting, but only if victim is fully conscious.
Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Skin contact may provoke the following symptoms:
irritant effects
Ingestion may provoke the following symptoms:
Gastrointestinal discomfort

- Risks : Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder
Foam
Carbon dioxide (CO₂)

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : oxidizing
Keep away from combustible material.
Hazardous decomposition products may be formed under fire conditions (see section 10).

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Avoid dust formation.
Use personal protective equipment.
Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid dust formation.
Do not use in areas without adequate ventilation.
Keep away from heat.
Keep away from fire (No Smoking).

Advice on protection against fire and explosion : Dust may form explosive mixture in air. Electrical equipment should be protected to the appropriate standard.

Hygiene measures : Keep working clothes separately. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and immediately after handling the product. Preventive skin protection (protective ointment for the skin)

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Keep away from sources of ignition - No smoking.

Further information on storage conditions : Protect against light. Protect from moisture.

Advice on common storage : Keep away from combustible material.
Keep away from reducing agents.

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Further information on storage stability : Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : Not relevant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Natriumnitrat U CAS-No.: 7631-99-4	Workers	Skin contact	Long-term systemic effects	20,8 mg/kg bw/day
Remarks:	DNEL			
	Workers	Inhalation	Long-term systemic effects	36,7 mg/m ³
Remarks:	DNEL			
	General population	Inhalation	Long-term systemic effects	10,9 mg/m ³
Remarks:	DNEL			
	General population	Skin contact	Long-term systemic effects	12,5 mg/kg bw/day
Remarks:	DNEL			
	General population	Ingestion	Long-term systemic effects	12,5 mg/kg bw/day
Remarks:	DNEL			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Natriumnitrat U CAS-No.: 7631-99-4	Fresh water	0,45 mg/l
	Marine water	0,045 mg/l
	intermittent releases	4,5 mg/l
Remarks:	water	
	Effects on waste water treatment plants	18 mg/l

8.2 Exposure controls

Engineering measures

Local exhaust

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Remarks : Chemical-resistant protective gloves according to EN 374, EN 388, EN 420. With full contact/spraying contact: nitrile rubber, layer thickness 0.4mm, break through time > 480min

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Skin and body protection	:	Dust impervious protective suit
Respiratory protection	:	Particle-filtering half-mask according to DIN EN 149 Filter class FFP3
Protective measures	:	Wear suitable protective equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	powder, crystalline
Colour	:	white
Odour	:	slight nitric
pH	:	8 - 9 (20 °C) Concentration: 100 g/l Method: Aqueous solution
Melting point	:	306 °C
Decomposition temperature	:	> 380 °C
Flash point	:	Not applicable
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Density	:	2,257 g/cm ³ (20 °C)
Bulk density	:	ca. 1.300 kg/m ³
Solubility(ies) Water solubility	:	874 g/l (20 °C)
Partition coefficient: n-octanol/water	:	log Pow: -3,8
Decomposition temperature	:	> 380 °C Oxygen Nitrogen Sodium oxides
Explosive properties	:	no data available
Oxidizing properties	:	The substance or mixture is classified as oxidizing with the category 3.

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9.2 Other information

Self-ignition : no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Explosive reaction (under certain circumstances with ignition) with reduction agents and organic substances.

10.4 Conditions to avoid

Conditions to avoid : Keep away from sources of ignition - No smoking.

10.5 Incompatible materials

Materials to avoid : Reducing agents
Combustible material

10.6 Hazardous decomposition products

Nitrogen oxides (NO_x)
Sodium oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, male and female): ca. 3.430 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : Remarks: Not applicable

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: By analogy with a product of similar composition

Components:

|| Sodium nitrate:

Acute oral toxicity : LD50 (Rat, male and female): ca. 3.430 mg/kg
Method: OECD Test Guideline 401
GLP: no

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Acute inhalation toxicity : Remarks: Not applicable

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: By analogy with a product of similar composition

Skin corrosion/irritation

Product:

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: no
Remarks: By analogy with a product of similar composition

Components:

|| Sodium nitrate:

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: no
Remarks: By analogy with a product of similar composition

Serious eye damage/eye irritation

Product:

Species: rabbit eye
Method: OECD Test Guideline 405
Result: Eye irritation
GLP: yes

Components:

|| Sodium nitrate:

Species: rabbit eye
Method: OECD Test Guideline 405
Result: Eye irritation
GLP: yes

Respiratory or skin sensitisation

Product:

Test Type: Mouse local lymphnode assay
Exposure routes: Dermal
Species: Mouse
Method: OECD Test Guideline 429
Result: Does not cause skin sensitisation.

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GLP: yes

Components:

Sodium nitrate:

Test Type: Mouse local lymphnode assay
Exposure routes: Dermal
Species: Mouse
Method: OECD Test Guideline 429
Result: Does not cause skin sensitisation.
GLP: yes

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Concentration: 10 - 850 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: <=5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Concentration: <=5000 µg/ml
Metabolic activation: without
Method: Other
Result: positive
GLP: No information available.

Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis test (UDS) in testicular cells
Species: Mouse (male)
Application Route: oral (gavage)
Exposure time: 3 times, 17 d
Dose: 600 - 1200 mg/kg
Method: Other
Result: negative
GLP: No information available.

Test Type: Micronucleus test
Species: Mouse (male)
Strain: Swiss Webster

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Application Route: oral (gavage)
Exposure time: 2 times, 24 h
Dose: 108-323-969-2906 mg/kg
Method: Other
Result: positive
GLP: No information available.

Germ cell mutagenicity-Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Components:

Sodium nitrate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Concentration: 10 - 850 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: <=5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Concentration: <=5000 µg/ml
Metabolic activation: without
Method: Other
Result: positive
GLP: No information available.

Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis test (UDS) in testicular cells
Species: Mouse (male)
Application Route: oral (gavage)
Exposure time: 3 times, 17 d
Dose: 600 - 1200 mg/kg
Method: Other
Result: negative
GLP: No information available.

Test Type: Micronucleus test
Species: Mouse (male)
Strain: Swiss Webster
Application Route: oral (gavage)
Exposure time: 2 times, 24 h

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Dose: 108-323-969-2906 mg/kg
Method: Other
Result: positive
GLP: No information available.

Germ cell mutagenicity-
Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Product:

Carcinogenicity -
Assessment : Animal testing did not show any carcinogenic effects.

Components:

Sodium nitrate:

Carcinogenicity -
Assessment : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Product:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat, male and female
Strain: wistar
Application Route: oral (gavage)
Dose: 250 - 750 - 1500 mg/kg
General Toxicity - Parent: NOAEL: \geq 1.500 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes
Remarks: By analogy with a product of similar composition

Effects on foetal
development : Species: Rat
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 250 - 750 - 1500 mg/kg
General Toxicity Maternal: NOAEL: \geq 1.500 mg/kg body weight
Teratogenicity: NOAEL: \geq 1.500 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes
Remarks: By analogy with a product of similar composition

Reproductive toxicity -
Assessment : No reproductive toxicity to be expected.
No teratogenic effects to be expected.

Components:

Sodium nitrate:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat, male and female

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Strain: wistar
Application Route: oral (gavage)
Dose: 250 - 750 - 1500 mg/kg
General Toxicity - Parent: NOAEL: \geq 1.500 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes
Remarks: By analogy with a product of similar composition

Effects on foetal development : Species: Rat
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 250 - 750 - 1500 mg/kg
General Toxicity Maternal: NOAEL: \geq 1.500 mg/kg body weight
Teratogenicity: NOAEL: \geq 1.500 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes
Remarks: By analogy with a product of similar composition

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.
No teratogenic effects to be expected.

STOT - single exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:

Sodium nitrate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Components:

Sodium nitrate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Species: Rat, male and female
NOAEL: \geq 1.500 mg/kg

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Application Route: oral (gavage)
Exposure time: 28 d
Number of exposures: daily
Dose: 250 - 750 - 1500 mg/kg
Group: yes
Method: OECD Test Guideline 422
GLP: yes
Remarks: By analogy with a product of similar composition

Application Route: Inhalation
Remarks: not tested.

Application Route: Skin contact
Remarks: not tested.

Components:

Sodium nitrate:

Species: Rat, male and female
NOAEL: \geq 1.500 mg/kg
Application Route: oral (gavage)
Exposure time: 28 d
Number of exposures: daily
Dose: 250 - 750 - 1500 mg/kg
Group: yes
Method: OECD Test Guideline 422
GLP: yes
Remarks: By analogy with a product of similar composition

Application Route: Inhalation
Remarks: not tested.

Application Route: Skin contact
Remarks: not tested.

Aspiration toxicity

Product:

No aspiration toxicity classification

Components:

Sodium nitrate:

No aspiration toxicity classification

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 98,9 mg/l
Exposure time: 96 h

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Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 8.609 mg/l
Exposure time: 24 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: no

Toxicity to algae : EC50 (other algae): > 1.700 mg/l
End point: Growth rate
Exposure time: 10 d
Analytical monitoring: yes
Method: Other
GLP: no
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : Remarks: not required

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not required

Toxicity to microorganisms : EC50 (activated sludge of a predominantly domestic sewage): > 1.000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: aquatic
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to soil dwelling organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

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Components:

Sodium nitrate:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 98,9 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 8.609 mg/l Exposure time: 24 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: no
Toxicity to algae	:	EC50 (other algae): > 1.700 mg/l End point: Growth rate Exposure time: 10 d Analytical monitoring: yes Method: Other GLP: no Remarks: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.
Toxicity to microorganisms	:	EC50 (activated sludge of a predominantly domestic sewage): > 1.000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Analytical monitoring: no Method: OECD Test Guideline 209 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic toxicity)	:	Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: not required
Toxicity to soil dwelling organisms	:	Remarks: Not applicable
Plant toxicity	:	Remarks: Not applicable
Sediment toxicity	:	Remarks: Not applicable
Toxicity to terrestrial	:	Remarks: Not applicable

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organisms

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Not applicable

Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Components:

Sodium nitrate:

Biodegradability : Remarks: Not applicable

Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Not applicable

Remarks: Not relevant for inorganic substances

Components:

Sodium nitrate:

Bioaccumulation : Remarks: Not applicable

Remarks: Not relevant for inorganic substances

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Components:

Sodium nitrate:

Distribution among environmental compartments : Remarks: Moderately mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

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Components:

Sodium nitrate:

Assessment : Remarks: Not applicable
: Remarks: Not relevant for inorganic substances

12.6 Other adverse effects

Product:

Environmental fate and pathways : not available

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

Components:

Sodium nitrate:

Environmental fate and pathways : not available

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Can be landfilled, when in compliance with local regulations.
Contact waste disposal services.

Contaminated packaging : Dispose of as unused product.

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR

UN no.	UN 1498
Proper shipping name:	Sodium nitrate
Class:	5.1
Primary risk:	5.1
Packing group:	III
Hazard no. :	50
Remarks	Shipment permitted

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ADN

UN no.	UN 1498
Proper shipping name:	Sodium nitrate
Class:	5.1
Primary risk:	5.1
Packing group:	III
Remarks	Shipment permitted

RID

UN no.	UN 1498
Proper shipping name:	Sodium nitrate
Class:	5.1
Primary risk:	5.1
Packing group:	III
Hazard no. :	50
Remarks	Shipment permitted

IATA

UN no.	UN 1498
Proper shipping name:	Sodium nitrate
Class:	5.1
Primary risk:	5.1
Packing group:	III
Remarks	Shipment permitted

IMDG

UN no.	UN 1498
Proper shipping name:	Sodium nitrate
Class:	5.1
Primary risk:	5.1
Packing group:	III
Remarks	Shipment permitted
EmS :	F-A S-Q

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code)

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

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The components of this product are reported in the following inventories:

EINECS	:	Listed Notification number: 231-554-3 2007-01-01
ECHA Registered Substances	:	Listed Full - Indicates registration under REACH Article 10 as a full dossier Notification number: 231-554-3 2011-10-19

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Further information

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