

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes date 20-Sep-2021

Revision date 23-Jul-2025

Revision Number 3.01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s)	20208
Safety data sheet number	20208
Product Name	SODIUM NITRATE
EC Number	231-554-3
CAS No	7631-99-4
Synonyms	SODIUM NITRATE FG E251 BSF, SODIUM NITRATE FOOD GRADE E251, SODIUM NITRATE (UNTREATED), SODIUM NITRATE (UNTREATED) PRL, SODIUM NITRATE 98% IND PRILL, SODIUM NITRATE 99% UNTREATED, SODIUM NITRATE TECH, SODIUM NITRATE UAE
Pure substance/mixture	Substance
Molecular weight	84.99 g/mol

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

Recommended use	Chemical Raw material Use in process chemicals Inorganic salt heat transfer fluids, Agriculture Formulating agent Food additive Formulation & (re)packing of substances and mixtures. Processing aid. Adhesives Sealant Use in explosives Metal surface treatment Antifreeze hydraulic fluids, Processing aids such as pH-regulators, flocculants, precipitants, neutralisation agents Cosmetics Personal care Construction materials Industrial use Professional use Consumer use For further information, see attached Exposure Scenario
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1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Oxidising solids	Category 2 - (H272)
Serious eye damage/eye irritation	Category 2 - (H319)

2.2. Label elements**Signal word**

Danger

Hazard statements

H319 - Causes serious eye irritation

H272 - May intensify fire; oxidiser

Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

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

P220 - Keep away from clothing and other combustible materials

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

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
SODIUM NITRATE 7631-99-4	90 - 100%	231-554-3	-	Ox. Sol. 3 (H272) Eye Irrit. 2 (H319)	-	-	-

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)

SECTION 4: First aid measures**4.1. Description of first aid measures**

General advice	Remove contaminated clothing and shoes.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.
Ingestion	Immediately rinse mouth and drink plenty of water (200-300 ml). Do NOT induce vomiting. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms**

Inhalation	Irritation of the epithelium of the respiratory tract. Coughing and/or wheezing. Sneezing.
Eyes	Causes serious eye irritation. conjunctival irritation, lacrimation, burning.
Dermal	May cause slight skin irritation. Redness.
Ingestion	Danger of methaemoglobin formation after ingestion Gastrointestinal discomfort Stomach pain Diarrhoea. Nausea Blue lips or nails Dizziness Unconsciousness

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

Note to doctors	Treat symptomatically. Treat according to symptoms (decontamination, vital functions), treat with toluonium chloride to reverse methaemoglobinanaemia. After inhalation of decomposition products:. Pulmonary odema prophylaxis.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Water spray.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams. Foam. Carbon dioxide (CO ₂).

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	When heated and in case of fire, toxic vapours/gases may be formed.
Hazardous combustion products	Carbon oxides. Nitrogen oxides (NOx). Disodium Oxide. Oxygen oxides. Nitrites. Sodium nitrite.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid generation of dust. Remove all sources of ignition.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Pick up and transfer to properly labelled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling	Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Do not breathe dust. Keep container closed when not in use. Protect from moisture. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Not combustible.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust. Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using the product. Take off immediately all contaminated clothing and wash it before reuse. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep away from food, drink and animal feedingstuffs. Protect from direct sunlight. Keep away from heat, sparks and open flame. Keep containers upright. Hygroscopic. Store away from the following materials. Strong oxidising agents. Strong reducing agents. Ammonium Salts.
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Packaging materials

Suitable container/equipment material: stainless steel. 1.4541, High density polyethylene (HDPE). Low density polyethylene (LDPE). Polyester resin. Glass reinforced (Palatal A410). Glass. Enamelled. Carbon Steel. rubberised. Aluminium.

7.3. Specific end use(s)**Specific use(s)**

See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

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

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
SODIUM NITRATE 7631-99-4		20.8 mg/kg/day [4] [6]	36.7 mg/m ³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
SODIUM NITRATE 7631-99-4	12.5 mg/kg/day [4] [6]	12.5 mg/kg/day [4] [6]	10.9 mg/m ³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
SODIUM NITRATE 7631-99-4	0.45 mg/l	4.5 mg/l	0.045 mg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
SODIUM NITRATE 7631-99-4			18 mg/L		

8.2. Exposure controls**Engineering controls**

No information available.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection Wear suitable gloves. Gloves must conform to standard EN 374.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Polyvinyl chloride (PVC)	0.7 mm	> 480 minutes
	Wear protective nitrile rubber gloves	0.4 mm	> 480 minutes
	Chloroprene rubber (CR)	0.5 mm	> 480 minutes
	Wear protective butyl rubber gloves	0.7 mm	> 480 minutes
	Fluoroelastomer	0.7 mm	> 480 minutes

Skin and body protection Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection Use appropriate respiratory protection.
Recommended filter type: Particulate filter P1. Particulates filter conforming to EN 143. or. Filter type: FFP1. EN 149. or. Particulate filter, type P2. EN 141 or EN 405.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust. Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using the product. Take off immediately all contaminated clothing and wash it before reuse. Wash hands before breaks and immediately after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid
Appearance solid Crystalline powder Prills.
Colour white
Odour Odourless.
Odour threshold Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	307 °C	Read-across.
Initial boiling point and boiling range		Decomposes prior to boiling.
Flammability		Not highly flammable.
Flammability Limit in Air		Not relevant.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point		Scientifically unjustified.
Autoignition temperature		No information available.
Decomposition temperature	> 500 °C	Oxygen. Nitrogen. Disodium Oxide.
pH	5.5 - 9	100 g/l @ 20 °C.
pH (as aqueous solution)		No information available.
Kinematic viscosity		Not applicable.
Dynamic viscosity		Scientifically unjustified.
Water solubility	Soluble in water 874 g/l @ 20 °C	
Solubility(ies)		No information available.
Partition coefficient	-3.8	
Vapour pressure		Not determined.
Relative density	2.26	@ 20 °C. Read-across.
Bulk density	~ 1300 kg/m ³	
Liquid Density	No information available	No information available
Relative vapour density		No information available.
Particle characteristics		
Particle Size	No information available	

Particle Size Distribution	D50 300 - 500 µm
Explosive properties	Not considered to be explosive.
Oxidising properties	Oxidising
9.2. Other information	
Molecular weight	84.99 g/mol
Evaporation rate	The product is a non-volatile solid.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No known effects under normal use conditions.

10.2. Chemical stability

Stability Stable under recommended storage conditions. Hygroscopic.

Explosion data

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react with the product:. Reducing agents. Oxidising Agent.

10.4. Conditions to avoid

Conditions to avoid Avoid heating while in contact with easily oxidizable materials. Keep away from heat, sparks and open flame.

10.5. Incompatible materials

Incompatible materials Reducing agent. Oxidising agents. Ammonium Compound. Finely powdered metals. Strong acids. Organic material.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Disodium Oxide. Nitrogen oxides (NOx). Oxygen oxides. Nitrites. Sodium nitrite.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system. Irritation of the epithelium of the respiratory tract. Coughing and/or wheezing. Sneezing.
Eye contact	Causes serious eye irritation. conjunctival irritation, lacrimation, burning.
Skin contact	May cause slight skin irritation. Redness.
Ingestion	Danger of methaemoglobin formation after ingestion. Gastrointestinal discomfort. Stomach pain. Diarrhoea. Blue lips or nails. Nausea. Dizziness. Unconsciousness.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Acute toxicity**Numerical measures of toxicity****Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
SODIUM NITRATE	3430 mg/kg (Rat)	> 5000 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Based on available data the classification criteria are not met.

SODIUM NITRATE (7631-99-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			non-irritant

Serious eye damage/eye irritation

Causes serious eye irritation.

SODIUM NITRATE (7631-99-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit				Causes serious eye irritation No irreversible damage

Respiratory or skin sensitisation

Not sensitizing in animals. Based on available data the classification criteria are not met.

SODIUM NITRATE (7631-99-4)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin Sensitization Local lymph node assay (LLNA)	Mouse		Not sensitizing in animals.

Germ cell mutagenicity

The data available on mutagenic action are not consistent. Based on available data the classification criteria are not met.

Component Information**SODIUM NITRATE (7631-99-4)**

Method	Species	Results
		The data available on mutagenic action are not consistent.

Carcinogenicity

In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed. Under certain conditions the substance can form nitrosamines. Nitrosamines are carcinogenic in animal studies. Based on available data the classification criteria are not met.

Component Information**SODIUM NITRATE (7631-99-4)**

Method	Species	Results
		In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed. Under certain conditions the substance can form nitrosamines. Nitrosamines are carcinogenic in animal studies.

Reproductive toxicity

This product does not contain any known or suspected reproductive hazards. Based on available data the classification criteria are not met.

SODIUM NITRATE (7631-99-4)

Method	Species	Results
		This product does not contain any known or suspected reproductive hazards

STOT - single exposure

There is a risk of damage to the blood (methemoglobinemia) after a single uptake. Based on available data the classification criteria are not met.

SODIUM NITRATE (7631-99-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					There is a risk of damage to the blood (methemoglobinemia) after a single uptake

STOT - repeated exposure

The substance may cause damage to the hematological system after repeated ingestion. Based on available data the classification criteria are not met.

Component Information

SODIUM NITRATE (7631-99-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					The substance may cause damage to the hematological system after repeated ingestion.

Aspiration hazard

Based on available data the classification criteria are not met.

Other adverse effects

No information available.

SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicity**

Not considered to be harmful to aquatic life.

SODIUM NITRATE (7631-99-4)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus tshawytscha	LC50	7950 mg/L	96 hours	
	Daphnia magna	EC50	8609 mg/L	24 hours	
	Algae	EC50	> 1700 mg/L	10 days	
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)	activated sludge	EC10	180 mg/L	3 hours	

12.2. Persistence and degradability

Persistence and degradability The methods for determining biodegradability are not applicable to inorganic substances.

SODIUM NITRATE (7631-99-4)

Method	Exposure time	Value	Results
			Inorganic.

12.3. Bioaccumulative potential

Bioaccumulation Not applicable to inorganic substances.

Component Information

12.4. Mobility in soil

Mobility in soil Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
SODIUM NITRATE	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number	UN1498
14.2 UN proper shipping name	SODIUM NITRATE
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	A803
ERG Code	5L

IMDG

14.1 UN number or ID number	UN1498
14.2 UN proper shipping name	SODIUM NITRATE
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	964, 967
EmS-No	F-A, S-Q
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	UN1498
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14.2 UN proper shipping name	SODIUM NITRATE
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
Classification code	O2

ADR

14.1 UN number or ID number	UN1498
14.2 UN proper shipping name	SODIUM NITRATE
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
Classification code	O2
Tunnel restriction code	(E)

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)

P8 - OXIDISING LIQUIDS AND SOLIDS

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Chemical name	Poisons and Explosive Precursors
SODIUM NITRATE	Explosive precursor, Reportable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status

KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

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

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Revision Note **SDS sections updated 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16**

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Prepared By Lisa Bland
Supersedes date 20-Sep-2021
Revision date 23-Jul-2025

This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Disclaimer

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.

End of Safety Data Sheet

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name SODIUM NITRATE
Chemical name Sodium nitrate
Pure substance/mixture Substance
REACH registration number 01-2119488221-41-XXXX
CAS No 7631-99-4
EC No (EU Index No) 231-554-3
Supplier Univar Solutions UK Ltd
 Aquarius House
 6 Mid Point Business Park
 Bradford
 GBR

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

E-mail address SDS.EMEA@univarsolutions.com

Section 1 - Title

Title Manufacture of substance
Type Worker
Main user group Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental release category(ies) ERC1 - Manufacture of substances
Process category(ies) PROC1 - Use in closed process, no likelihood of exposure
 PROC2 - Use in closed, continuous process with occasional controlled exposure
 PROC3 - Use in closed batch process (synthesis or formulation)
 PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises
 PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
 PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
 PROC15 - Use as laboratory reagent

Product Name SODIUM NITRATE
Sector(s) of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
 SU8 - Manufacture of bulk, large scale chemicals (including petroleum products)

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC1 - Manufacture of substances

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure	
Process category(ies)	PROC1 - Use in closed process, no likelihood of exposure
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and	Avoid contact with eyes and skin Use suitable eye protection

health evaluation	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC2 - Use in closed, continuous process with occasional controlled exposure
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC3 - Use in closed batch process (synthesis or formulation)
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection

Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to	Avoid contact with eyes and skin

personal protection, hygiene and health evaluation	Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC15 - Use as laboratory reagent
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Section 3 - Exposure estimation

Environmental release category(ies) - ERC1 - Manufacture of substances

Predicted No Effect Concentration (PNEC)

Remarks No exposure assessment presented for the environment. As no environmental hazard was identified, no environmental-related exposure assessment and risk characterisation was performed.

Derived No Effect Level (DNEL):

Remarks Risk management measures are based on qualitative risk characterization
Qualitative approach used to conclude safe use

Section 4 - Guidance to check compliance with the exposure scenario

As no environmental hazard was identified, no environmental-related exposure assessment and risk characterisation was performed. Qualitative approach used to conclude safe use. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name	SODIUM NITRATE
Chemical name	Sodium nitrate
Pure substance/mixture	Substance
REACH registration number	01-2119488221-41-XXXX
CAS No	7631-99-4
EC No (EU Index No)	231-554-3
Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford GBR
Non-Emergency Telephone Number	+44 1274 267300 / +44 1274 267306
E-mail address	SDS.EMEA@univarsolutions.com

Section 1 - Title

Title	Distribution of substance
Type	Worker
Main user group	Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental release category(ies)	ERC2 - Formulation of preparations (mixtures) ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles ERC5 - Industrial use resulting in inclusion into or onto a matrix ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates) ERC6b - Industrial use of reactive processing aids ERC7 - Industrial use of substances in closed systems
Process category(ies)	PROC1 - Use in closed process, no likelihood of exposure PROC2 - Use in closed, continuous process with occasional controlled exposure PROC3 - Use in closed batch process (synthesis or formulation) PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact) PROC7 - Industrial spraying PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10 - Roller application or brushing PROC12 - Use of blow agents in manufacture of foam PROC13 - Treatment of articles by dipping and pouring PROC14 - Production of preparations or articles by tableting, compression, extrusion, pelettising PROC15 - Use as laboratory reagent PROC19 - Hand-mixing with intimate contact and only PPE available PROC20 - Heat and pressure transfer fluids in dispersive, professional use but closed systems PROC22 - Potentially closed processing operations with minerals/metals at elevated temperature; industrial setting PROC23 - Open processing and transfer operations with minerals/metals at elevated temperature PROC24 - High (mechanical) energy work-up of substances bound in materials and/or articles PROC26 - Handling of solid inorganic substances at ambient temperature
Product category(ies)	PC0 - Other Products PC1 - Adhesives, sealants PC4 - Anti-freeze and de-icing products PC10 - Building and construction preparations not covered elsewhere PC11 - Explosives PC12 - Fertilisers PC14 - Metal surface treatment products, including galvanic and electroplating products PC16 - Heat transfer fluids PC17 - Hydraulic fluids PC19 - Intermediate PC20 - Products such as pH-regulators, flocculants, precipitants, neutralization

Product Name	agents PC35 - Washing and cleaning products (including solvent based products) PC37 - Water treatment chemicals
Sector(s) of use	SODIUM NITRATE SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites SU10 - Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC2 - Formulation of preparations (mixtures)

- ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles
- ERC5 - Industrial use resulting in inclusion into or onto a matrix
- ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)
- ERC6b - Industrial use of reactive processing aids
- ERC7 - Industrial use of substances in closed systems

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure	
Process category(ies)	PROC1 - Use in closed process, no likelihood of exposure
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC2 - Use in closed, continuous process with occasional controlled exposure
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures

Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC3 - Use in closed batch process (synthesis or formulation)
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed

	Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC15 - Use as laboratory reagent
Covers concentrations up to	100%
Physical form of product	Solid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and	Ensure segregation of worker from the source Clean equipment and the work area every day

exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC1 - Use in closed process, no likelihood of exposure
Covers concentrations up to	100%
Physical form of product	Liquid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC2 - Use in closed, continuous process with occasional controlled exposure
Covers concentrations up to	100%
Physical form of product	Liquid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC3 - Use in closed batch process (synthesis or formulation)
Covers concentrations up to	100%
Physical form of product	Liquid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and	Ensure segregation of worker from the source Clean equipment and the work area every day

exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises
Covers concentrations up to	100%
Physical form of product	Liquid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
Covers concentrations up to	100%
Physical form of product	Liquid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Covers concentrations up to	100%
Physical form of product	Liquid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection

Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Covers concentrations up to	100%
Physical form of product	Liquid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC15 - Use as laboratory reagent
Covers concentrations up to	100%
Physical form of product	Liquid
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source

Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC7 - Industrial spraying
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC10 - Roller application or brushing
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC12 - Use of blow agents in manufacture of foam
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week

Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC13 - Treatment of articles by dipping and pouring
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC14 - Production of preparations or articles by tableting, compression, extrusion, pelettising
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC19 - Hand-mixing with intimate contact and only PPE available
Covers concentrations up to	100%

Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC20 - Heat and pressure transfer fluids in dispersive, professional use but closed systems
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC22 - Potentially closed processing operations with minerals/metals at elevated temperature; industrial setting
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations

the REACH Chemical Safety Report	
Indoor/Outdoor use	Indoor

Process category(ies)	PROC23 - Open processing and transfer operations with minerals/metals at elevated temperature
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC24 - High (mechanical) energy work-up of substances bound in materials and/or articles
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Process category(ies)	PROC26 - Handling of solid inorganic substances at ambient temperature
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection

Organisational measures to prevent /limit releases, dispersion and exposure	Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Indoor

Section 3 - Exposure estimation

Environmental release category(ies) - ERC2 - Formulation of preparations (mixtures)

- ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles

- ERC5 - Industrial use resulting in inclusion into or onto a matrix

- ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)

- ERC6b - Industrial use of reactive processing aids

- ERC7 - Industrial use of substances in closed systems

Predicted No Effect Concentration (PNEC)

Remarks

No exposure assessment presented for the environment. As no environmental hazard was identified, no environmental-related exposure assessment and risk characterisation was performed.

Derived No Effect Level (DNEL):

Remarks

Risk management measures are based on qualitative risk characterization
Qualitative approach used to conclude safe use

Section 4 - Guidance to check compliance with the exposure scenario

As no environmental hazard was identified, no environmental-related exposure assessment and risk characterisation was performed. Qualitative approach used to conclude safe use. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name	SODIUM NITRATE
Chemical name	Sodium nitrate
Pure substance/mixture	Substance
REACH registration number	01-2119488221-41-XXXX
CAS No	7631-99-4
EC No (EU Index No)	231-554-3
Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford GBR
Non-Emergency Telephone Number	+44 1274 267300 / +44 1274 267306
E-mail address	SDS.EMEA@univarsolutions.com

Section 1 - Title

Title	Professional use
Type	Worker
Main user group	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Environmental release category(ies)	ERC8a - Wide dispersive indoor use of processing aids in open systems ERC8b - Wide dispersive indoor use of reactive substances in open systems ERC8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d - Wide dispersive outdoor use of processing aids in open systems ERC8e - Wide dispersive outdoor use of reactive substances in open systems ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a - Wide dispersive indoor use of substances in closed systems ERC9b - Wide dispersive outdoor use of substances in closed systems
Process category(ies)	PROC2 - Use in closed, continuous process with occasional controlled exposure PROC3 - Use in closed batch process (synthesis or formulation) PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact) PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10 - Roller application or brushing PROC11 - Non industrial spraying PROC13 - Treatment of articles by dipping and pouring PROC19 - Hand-mixing with intimate contact and only PPE available PROC20 - Heat and pressure transfer fluids in dispersive, professional use but closed systems
Product category(ies)	PROC26 - Handling of solid inorganic substances at ambient temperature PC0 - Other Products PC1 - Adhesives, sealants PC4 - Anti-freeze and de-icing products PC10 - Building and construction preparations not covered elsewhere PC11 - Explosives PC12 - Fertilisers PC14 - Metal surface treatment products, including galvanic and electroplating products PC16 - Heat transfer fluids PC17 - Hydraulic fluids PC20 - Products such as pH-regulators, flocculants, precipitants, neutralization agents PC37 - Water treatment chemicals
Product Name	SODIUM NITRATE
Sector(s) of use	SU22 - Professional uses

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC8a - Wide dispersive indoor use of processing aids in open systems

- ERC8b - Wide dispersive indoor use of reactive substances in open systems
- ERC8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix
- ERC8d - Wide dispersive outdoor use of processing aids in open systems
- ERC8e - Wide dispersive outdoor use of reactive substances in open systems
- ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix
- ERC9a - Wide dispersive indoor use of substances in closed systems
- ERC9b - Wide dispersive outdoor use of substances in closed systems

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure	
Process category(ies)	PROC2 - Use in closed, continuous process with occasional controlled exposure
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Process category(ies)	PROC3 - Use in closed batch process (synthesis or formulation)
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Process category(ies)	PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)
Covers concentrations up to	100%

Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Process category(ies)	PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed

	Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Process category(ies)	PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Process category(ies)	PROC10 - Roller application or brushing
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Process category(ies)	PROC11 - Non industrial spraying
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and	Avoid contact with eyes and skin Use suitable eye protection

health evaluation	
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Process category(ies)	PROC13 - Treatment of articles by dipping and pouring
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Process category(ies)	PROC19 - Hand-mixing with intimate contact and only PPE available
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Process category(ies)	PROC20 - Heat and pressure transfer fluids in dispersive, professional use but closed systems
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).

	Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Process category(ies)	PROC26 - Handling of solid inorganic substances at ambient temperature
Covers concentrations up to	100%
Physical form of product	Solid Liquid
Vapour pressure	< 100 Pa
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). Covers frequency up to 5 days per week
Technical conditions and measures to control dispersion from source towards the worker	Avoid splashing Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Ensure containment of the emission source
Conditions and measures related to personal protection, hygiene and health evaluation	Avoid contact with eyes and skin Use suitable eye protection
Organisational measures to prevent /limit releases, dispersion and exposure	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ensure segregation of worker from the source Clean equipment and the work area every day Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures
Additional good practice advice beyond the REACH Chemical Safety Report	Segregate the activity away from other operations
Indoor/Outdoor use	Covers indoor and outdoor use

Section 3 - Exposure estimation

Environmental release category(ies) - ERC8a - Wide dispersive indoor use of processing aids in open systems

- ERC8b - Wide dispersive indoor use of reactive substances in open systems

- ERC8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix

- ERC8d - Wide dispersive outdoor use of processing aids in open systems

- ERC8e - Wide dispersive outdoor use of reactive substances in open systems

- ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix

- ERC9a - Wide dispersive indoor use of substances in closed systems

- ERC9b - Wide dispersive outdoor use of substances in closed systems

Predicted No Effect Concentration (PNEC)

Remarks

No exposure assessment presented for the environment. As no environmental hazard was identified, no environmental-related exposure assessment and risk characterisation was performed.

Derived No Effect Level (DNEL):

Remarks

Risk management measures are based on qualitative risk characterization
Qualitative approach used to conclude safe use

Section 4 - Guidance to check compliance with the exposure scenario

As no environmental hazard was identified, no environmental-related exposure assessment and risk characterisation was performed. Qualitative approach used to conclude safe use. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name	SODIUM NITRATE
Chemical name	Sodium nitrate
Pure substance/mixture	Substance
REACH registration number	01-2119488221-41-XXXX
CAS No	7631-99-4
EC No (EU Index No)	231-554-3
Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford GBR
Non-Emergency Telephone Number	+44 1274 267300 / +44 1274 267306
E-mail address	SDS.EMEA@univarsolutions.com

Section 1 - Title

Title	Consumer use
Type	Consumer
Main user group	Consumer uses: Private households (= general public = consumers)
Environmental release category(ies)	ERC8a - Wide dispersive indoor use of processing aids in open systems ERC8b - Wide dispersive indoor use of reactive substances in open systems ERC8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d - Wide dispersive outdoor use of processing aids in open systems ERC8e - Wide dispersive outdoor use of reactive substances in open systems ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a - Wide dispersive indoor use of substances in closed systems ERC9b - Wide dispersive outdoor use of substances in closed systems ERC10a - Wide dispersive outdoor use of long-life articles and materials with low release ERC11a - Wide dispersive indoor use of long-life articles and materials with low release
Product category(ies)	PC0 - Other Products PC1 - Adhesives, sealants PC4 - Anti-freeze and de-icing products PC10 - Building and construction preparations not covered elsewhere PC12 - Fertilisers PC16 - Heat transfer fluids PC17 - Hydraulic fluids PC35 - Washing and cleaning products (including solvent based products) PC39 - Cosmetics, personal care products
Product Name	SODIUM NITRATE
Sector(s) of use	SU22 - Professional uses

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC8a - Wide dispersive indoor use of processing aids in open systems

- ERC8b - Wide dispersive indoor use of reactive substances in open systems
- ERC8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix
- ERC8d - Wide dispersive outdoor use of processing aids in open systems
- ERC8e - Wide dispersive outdoor use of reactive substances in open systems
- ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix
- ERC9a - Wide dispersive indoor use of substances in closed systems
- ERC9b - Wide dispersive outdoor use of substances in closed systems
- ERC10a - Wide dispersive outdoor use of long-life articles and materials with low release
- ERC11a - Wide dispersive indoor use of long-life articles and materials with low release

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of consumer exposure	
Product categories [PC]	PC0 - Other Products
Physical form of product	Liquid
Risk management measures	Use suitable eye protection
Product categories [PC]	PC1 - Adhesives, sealants
Physical form of product	Liquid
Risk management measures	Use suitable eye protection
Product categories [PC]	PC4 - Anti-freeze and de-icing products
Physical form of product	Liquid
Risk management measures	Use suitable eye protection
Product categories [PC]	PC10 - Building and construction preparations not covered elsewhere
Physical form of product	Liquid
Risk management measures	Use suitable eye protection
Product categories [PC]	PC12 - Fertilisers
Physical form of product	Liquid
Risk management measures	Use suitable eye protection
Product categories [PC]	PC16 - Heat transfer fluids
Physical form of product	Liquid
Risk management measures	Use suitable eye protection
Product categories [PC]	PC17 - Hydraulic fluids
Physical form of product	Liquid
Risk management measures	Use suitable eye protection
Product categories [PC]	PC35 - Washing and cleaning products (including solvent based products)
Physical form of product	Liquid
Risk management measures	Use suitable eye protection
Product categories [PC]	PC39 - Cosmetics, personal care products
Physical form of product	Liquid
Risk management measures	Use suitable eye protection

Section 3 - Exposure estimation

Environmental release category(ies) - ERC8a - Wide dispersive indoor use of processing aids in open systems

- ERC8b - Wide dispersive indoor use of reactive substances in open systems

- ERC8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix

- ERC8d - Wide dispersive outdoor use of processing aids in open systems

- ERC8e - Wide dispersive outdoor use of reactive substances in open systems

- ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix

- ERC9a - Wide dispersive indoor use of substances in closed systems

- ERC9b - Wide dispersive outdoor use of substances in closed systems

- ERC10a - Wide dispersive outdoor use of long-life articles and materials with low release

- ERC11a - Wide dispersive indoor use of long-life articles and materials with low release

Predicted No Effect Concentration (PNEC)

Remarks

No exposure assessment presented for the environment. As no environmental hazard was identified, no environmental-related exposure assessment and risk characterisation was performed.

Derived No Effect Level (DNEL):

Remarks

Risk management measures are based on qualitative risk characterization
Qualitative approach used to conclude safe use

Section 4 - Guidance to check compliance with the exposure scenario

As no environmental hazard was identified, no environmental-related exposure assessment and risk characterisation was performed. Qualitative approach used to conclude safe use. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.