Honeywell Fluka[™]

Sodium nitrate

31440-100G

Version 1.4

Revision Date 24.01.2021

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

1.1. Product identifier			
Product name	:	Sodium nitrate	
SDS-number	:	00000020863	
Type of product	:	Substance	
Remarks	:	SDS according to Art. 31 of Re	gulation (EC) 1907/2006.
Chemical name	:	Sodium nitrate	
CAS-No.	:	7631-99-4	
REACH Registration Number	:	no data available	
1.2. Relevant identified us	ses	of the substance or mixture an	d uses advised against
Use of the Substance/Mixture	:	Laboratory chemicals	
Uses advised against	:	none	
1.3. Details of the supplier	r of	the safety data sheet	
Company	:	Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
Telephone For further information, please contact:	:	SafetyDataSheet@Honeywell.	com
1.4. Emergency telephone	e nu	mber	
Emergency telephone number Country based Poison Control Center	:	+1-703-527-3887 (ChemTrec- +1-303-389-1414 (Medical) see chapter 15.1	Fransport)

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Oxidizing solids Category 3 H272 May intensify fire; oxidizer. Eye irritation Category 2 H319 Causes serious eye irritation.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms



Signal word	Warning	
Hazard statements	H272 H319	May intensify fire; oxidizer. Causes serious eye irritation.
Precautionary statements	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P280	Wear protective gloves/ eye protection/ face protection.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308 + P313	IF exposed or concerned: Get medical advice/ attention.

2.3. Other hazards

None known. Results of PBT and vPvB assessment, see chapter 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substance

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Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Sodium nitrate	7631-99-4 231-554-3	Ox. Sol. 3; H272 Eye Irrit. 2; H319	100 %	

3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8. For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation:

If inhaled, remove to fresh air. Call a physician if irritation develops or persists. If breathing is difficult, give oxygen.

Skin contact:

After contact with skin, wash immediately with plenty of water.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Remove contact lenses. Consult a physician.

Ingestion:

When swallowed, allow water to be drunk. Call a physician immediately.

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

No data available

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

Treat symptomatically.

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See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Extinguishing media which shall not be used for safety reasons: High volume water jet

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions. Fire may cause evolution of: Oxygen nitrogen oxides In fires, the product supports combustion. Fire or intense heat may cause violent rupture of packages.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.Do not use a solid water stream as it may scatter and spread fire.In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear personal protective equipment. Unprotected persons must be kept away. Avoid contact with skin, eyes and clothing. Avoid dust formation.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses.

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6.3. Methods and materials for containment and cleaning up

Use mechanical handling equipment. Pick for disposal in tightly closed containers Do not pick up with the help of saw-dust or other combustible substances.

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Exhaust ventilation at the object is necessary. Avoid dust formation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Keep limited supplies at workplace. Never return unused material to storage receptacle.

Advice on protection against fire and explosion: Keep away from combustible material. The product itself does not burn.

Hygiene measures:

Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Store in original container. Keep container tightly closed in a dry and well-ventilated place. Store in a place accessible by authorized persons only.

Further information on storage conditions:

Avoid product residues in/on containers. Protect from atmospheric moisture and water. Do not leave vessels/containers open

7.3. Specific end use(s)

no additional data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

DNEL/ PNEC-Values

No DNEL-data available.

Component	Environmental compartment / Value	Remarks
Sodium nitrate	Sewage treatment plant: 18 mg/l	Assessment factor: 10

8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345. Ensure that eyewash stations and safety showers are close to the workstation location.

Engineering measures

Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection: In the case of dust or aerosol formation use respirator with an approved filter. Recommended Filter type: Half mask with a particle filter P2 (EN 143)

Hand protection: Glove material: Natural Latex Break through time: > 480 min Glove thickness: 0,6 mm Lapren®706 Gloves must be inspected prior to use.

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Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer reccomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types . Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection: Safety goggles

Skin and body protection: Wear suitable protective equipment. Lab coat Protective suit Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire.

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	solid
Colour	:	colourless
Odour	:	odourless
molecular weight	:	84,99 g/mol
Melting point/range	:	308 °C
Boiling point/boiling range	:	Not applicable Decomposes on heating.
Flammability	:	The product is not flammable.

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Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Flash point	:	Not applicable
Ignition temperature	:	Not applicable
Decomposition temperature	:	380 °C
рН	:	5,0 - 7,0 at 20 °C (as aqueous solution)
Auto-ignition temperature	:	not auto-flammable
Viscosity, kinematic	:	Not applicable
Water solubility	:	883,0 g/l at 20 °C
Partition coefficient: n- octanol/water	:	Not applicable
Vapour pressure	:	No data available
Density	:	ca. 2,26 g/cm3 at 20 °C
Bulk density	:	ca. 1.300 - 1.500 kg/m3
Relative vapour density	:	No data available
9.2 Other Information		
Oxidizing properties	:	The substance or mixture is classified as oxidizing with category 3.
Evaporation rate	:	No data available
Viscosity, dynamic	:	No data available
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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

380 °C Decomposition temperature

10.3. Possibility of hazardous reactions

Mixtures of inflammable substances are easily combustible and burn vigorously even under exclusion of air.

10.4. Conditions to avoid

Keep away from heat and sources of ignition. Keep away from reducing agents. Avoid contact with combustible material (paper, wool, oil). Avoid dust formation.

10.5. Incompatible materials

Reactions with metals in powder form. Reactions with organic substances. Reducing agents Mixtures of inflammable substances are easily combustible and burn vigorously even under exclusion of air.

As oxidising agent, attacks organic substances such as wood, paper, fats.

10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as: Sodium oxides Nitrogen oxides (NOx) Oxygen

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity: LD50

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Species: Rat Sex: male and female Value: ca. 3.430 mg/kg Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Species: Rat Sex: male and female Value: > 5.000 mg/kg Method: OECD Test Guideline 402 REACH dossier "read-across"

Acute inhalation toxicity: No data available

Skin irritation: Species: Rabbit Result: non-irritant Method: OECD Test Guideline 404 REACH dossier "read-across"

Eye irritation: Species: Rabbit Result: Irritating to eyes. Method: OECD Test Guideline 405

Respiratory or skin sensitisation: Local lymph node assay (LLNA) Route of exposure: Dermal Species: Mouse Result: non-sensitizing Method: OECD Test Guideline 429

Repeated dose toxicity: Species: Rat, male and female Application Route: Oral Exposure time: 28 d NOAEL >= 1.500 mg/kg Method: OECD Test Guideline 422 Note: REACH dossier "read-across"

Carcinogenicity: Note: Not classified due to data which are conclusive although insufficient for classification.

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Germ cell mutagenicity: Test Method: Ames test Metabolic activation: with and without metabolic activation Result: negative Method: OECD Test Guideline 471

Reproductive toxicity: Remarks: Not classified due to data which are conclusive although insufficient for classification.

Aspiration hazard: No data available

11.2. Information on other hazards

Endocrine disrupting properties No data available

Other information: No data available

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to aquatic plants: EC50 static test Species: algae Value: > 1.700 mg/l Exposure time: 10 d REACH dossier "read-across"

Toxicity to Microorganisms: EC50 Respiration inhibition Species: activated sludge Value: > 1.000 mg/l Exposure time: 180 min Method: OECD Test Guideline 209

Toxicity to aquatic invertebrates:

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EC50 static test Species: Daphnia magna (Water flea) Value: 8.609 mg/l Exposure time: 24 h Method: OECD Test Guideline 202

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product: Dispose according to legal requirements.

Packaging: Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information: Provisions relating to waste: EC Directive 2006/12/EC; 2008/98/EEC Regulation No. 1013/2006

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For personal protection see section 8.

SECTION 14: Transport information

14.1 UN number ADR/RID:1498	IMDG:1498	IATA:1498
14.2 UN proper shipping name ADR/RID:SODIUM NITRATE IMDG:SODIUM NITRATE IATA:Sodium nitrate		
14.3 Transport hazard class(es) ADR/RID: 5.1	IMDG: 5.1	IATA: 5.1
14.4 Packaging group ADR/RID: III	IMDG: III	IATA: III
14.5 Environmental hazards ADR/RID:no	Marine pollutant: no	
14.6 Special precautions for use	r	

No data available

14.7 Maritime transport in bulk according to IMO instruments No data available

SECTION 15: Regulatory information

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

Basis	Value	Remarks
Directive 2012/18/EC SEVESO III Listed in Regulation : P8: Oxidizing liquids and solids Number in Regulation: 1.2.8	Quantity: 50.000 kg Quantity: 200.000 kg	
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of \geq 0.1 % (w/w).

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Regulation (EU) 2019/1148 on the marketing and use of explosives precursors	Contains components listed in
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Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
Germany	Freiburg : 0761/19240
Germany	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
	Munich : 089/19240
Latvia	+37167042473

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	808250143
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

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Other inventory information

US. Toxic Substances Control Act On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Text of H-statements referred to under heading 3

Sodium nitrate

: H272 May intensify fire; oxidizer.

H319 Causes serious eye irritation.

Further information

All directives and regulations refer to amended versions. Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

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Abbreviations: EC European Community CAS Chemical Abstracts Service DNEL Derived no effect level PNEC Predicted no effect level vPvB Very persistent and very biaccumulative substance PBT Persistent, bioaccmulative und toxic substance

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