

	Revision Date 06/23/2014	Version 1.2
SECTION 1. Identification Product identifier		
Product number	106537	
Product name	Sodium nitrate for analysis EMSURE® ACS,ISO,Reag. Ph Eur	
CAS-No.	7631-99-4	
Relevant identified uses of	the substance or mixture and uses advised against	
Identified uses	Reagent for analysis	
Details of the supplier of the	e safety data sheet	
Company	EMD Millipore Corporation 290 Concord Road, Billerica, MA 0182 United States of America General Inquiries: +1-978-715-4321 Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)	1,
Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week	

SECTION 2. Hazards identification

GHS Classification Oxidizing solid, Category 3, H272 Acute toxicity, Category 4, Oral, H302 For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS-Labeling

Hazard pictograms



Signal Word Warning

Hazard Statements H272 May intensify fire; oxidizer. H302 Harmful if swallowed.

Precautionary Statements

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P260 Do not breathe dust.

OSHA Hazards

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS and may deviate from the GHS information.

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Formula	NaNO₃	NNaO₃ (Hill)
Molar mass	84.99 g/mol	

Hazardous ingredients

Chemical Name (Concentration) CAS-No. sodium nitrate (<= 100 %) 7631-99-4 Exact percentages are being withheld as a trade secret.

SECTION 4. First aid measures

Description of first-aid measures

Inhalation After inhalation: fresh air.

Skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Eye contact After eye contact: rinse out with plenty of water.

Ingestion

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

irritant effects, Diarrhea, Nausea, Vomiting The following applies to nitrites/nitrates in general: methemoglobinemia after the uptake of large quantities.

Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Fire-fighting measures Extinguishing media

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Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Not combustible. Has a fire-promoting effect due to release of oxygen. Ambient fire may liberate hazardous vapors. Fire may cause evolution of: nitrogen oxides, nitrous gases

Advice for firefighters

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

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Environmental precautions

Do not empty into drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7. Handling and storage

Precautions for safe handling Observe label precautions.

Conditions for safe storage, including any incompatibilities

Tightly closed. Dry. Away from combustible substances.

Store at $+5^{\circ}C$ to $+30^{\circ}C$ ($+41^{\circ}F$ to $+86^{\circ}F$).

SECTION 8. Exposure controls/personal protection

Exposure limit(s)

Contains no substances with occupational exposure limit values.

Engineering measures

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Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures

Change contaminated clothing. Application of skin- protective barrier cream recommended. Wash hands after working with substance.

Eve/face protection Safety glasses

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other protective equipment: protective clothing

Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SEC	SECTION 9. Physical and chemical properties		
	Physical state	solid	
	Color	colorless	
	Odor	odorless	
	Odor Threshold	not applicable	
	рН	5.5 - 8.0 at 50 g/l 68 °F (20 °C)	
	Melting point	308 °C	
	Boiling point/boiling range	not applicable	
	Flash point	does not flash	
	Evaporation rate	No information available.	
	Flammability (solid, gas)	The product is not flammable.	
	Lower explosion limit	not applicable	

Product number Product name	106537 Sodium nitrate for analysis EMSURE® ACS,ISO,Reag. Ph Eur	Version 1.2
Upper explosion limit	not applicable	
Vapor pressure	No information available.	
Relative vapor density	not applicable	
Density	2.26 g/cm³ at 68 °F (20 °C)	
Relative density	No information available.	
Water solubility	874 g/l at 68 °F (20 °C)	
Partition coefficient: n-	No information available.	
octanol/water Autoignition temperature	No information available.	
Decomposition temperature	> 716 °F (> 380 °C)	
Viscosity, dynamic	No information available.	
Explosive properties	Not classified as explosive.	
Oxidizing properties	May intensify fire; oxidizer.	
	The substance or mixture is classified as oxidizing with the category 3.	
Ignition temperature	not applicable	
Bulk density	ca. 1,200 kg/m³	

SECTION 10. Stability and reactivity

Reactivity

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See below

Chemical stability

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

Possibility of hazardous reactions

Risk of explosion with:

Powdered metals, aluminum oxide, boron phosphide, Cyanides, Acetic anhydride, sodium phosphite, sodium thiosulfate, performic acid, sulfur, Polyvinyl chloride

Risk of ignition or formation of inflammable gases or vapors with:, Risk of explosion with:

organic combustible substances, oxidizable substances, carbon, Arsenic oxides

Conditions to avoid

Heating (decomposition).

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Incompatible materials

no information available

Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure Inhalation, Eye contact, Skin contact, Ingestion

Acute oral toxicity LD50 rat: 1,267 mg/kg (RTECS)

Symptoms: Irritation of mucous membranes, Nausea, Vomiting, Diarrhea absorption

Acute inhalation toxicity

Symptoms: slight mucosal irritations

Eye irritation slight irritation

Specific target organ systemic toxicity - single exposure The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure. *Aspiration hazard*

Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity

• •	
IARC	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as probable, possible or confirmed
	human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a known or anticipated carcinogen
	by NTP.
ACGIH	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by ACGIH.
Further information	

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After absorption of large quantities:

Methemoglobinemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, and spasms, key symptom: cyanosis (blue coloration of the blood).

The following applies to nitrites/nitrates in general: methemoglobinemia after the uptake of large quantities.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

Ecotoxicity

Toxicity to fish

LC50 Ictalurus catus (catfish): 6,200 mg/l; 96 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates EC50 Daphnia magna (Water flea): 3,581 mg/l; 48 h (IUCLID)

Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Additional ecological information

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14. Transport information

Land transport (DOT)	
UN number	UN 1498
Proper shipping name	SODIUM NITRATE
Class	5.1
Packing group	III
Environmentally hazardous	

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i foddet name		
UN number	UN 1498	
Proper shipping name	SODIUM NITRATE	
Class	5.1	
Packing group	III	
Environmentally hazardous		
Special precautions for user	no	
Sea transport (IMDG)		
UN number	UN 1498	
Proper shipping name	SODIUM NITRATE	
Class	5.1	
Packing group	III	
Environmentally hazardous		
Special precautions for user	yes	
EmS	F-A S-Q	

SECTION 15. Regulatory information

United States of America

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OSHA Hazards Oxidizer Harmful if swallowed.

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

SARA 311/312 Hazards

Fire Hazard

Reactivity Hazard Acute Health Hazard

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ingredients sodium nitrate

7631-99-4 100 %

SARA 302

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

DEA List I Not listed

DEA List II Not listed

US State Regulations

Product number Product name	106537 Sodium nitrate for analysis EMSURE® ACS,ISO,Reag. Ph Eur	Version 1.2
Massachusetts Right <i>Ingredients</i> sodium nitrate	To Know	
Pennsylvania Right T Ingredients sodium nitrate	o Know	
New Jersey Right To <i>Ingredients</i> sodium nitrate	Know	
California Prop 65 Co This product does no birth, or any other rep	t contain any chemicals known to the State of California to cause cancer,	
Notification status TSCA:	All components of the product are listed in the TSCA-inventory.	
DSL:	All components of this product are on the Canadian DSL.	

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Full text of H-Statements referred to under sections 2 and 3.

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.

Key or legend to abbreviations and acronyms used in the safety data sheet Used abbreviations and acronyms can be looked up at www.wikipedia.org.

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