according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1. Identification Product identifier	
Product number	SX0665
Product name	Sodium Nitrite GR ACS
CAS-No.	7632-00-0
Relevant identified uses of the	substance or mixture and uses advised against
Identified uses	Reagent for analysis
Details of the supplier of the sa	fety data sheet
Company	EMD Millipore Corporation 290 Concord Road, Billerica, MA 01821, United States of America General Inquiries: +1-978-715-4321 Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)
Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2. Hazards identification

SAFETY DATA SHEET

GHS Classification Oxidizing solid, Category 3, H272 Acute toxicity, Category 3, Oral, H301 Acute aquatic toxicity, Category 1, H400 For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS-Labeling

Hazard pictograms



Signal Word Danger

Hazard StatementsH272 May intensify fire; oxidizer.H301 Toxic if swallowed.H400 Very toxic to aquatic life.



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Precautionary Statements P273 Avoid release to the environment. P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

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	NaNO₂	NNaO₂ (Hill)
Molar mass	69.00 g/mol	

Hazardous ingredients

Chemical Name (Concentration) CAS-No. sodium nitrite (>= 90 % - <= 100 %) 7632-00-0 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

After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eye contact

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

Ingestion

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

irritant effects, depressed respiration, Cyanosis, Unconsciousness, narcosis, Nausea, Vomiting, collapse, Headache

Indication of any immediate medical attention and special treatment needed

Laxative: Sodium sulfate (1 tablespoon/1/4 l water).

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SECTION 5. Fire-fighting measures

Extinguishing media

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

Advice for firefighters

Special protective equipment for fire-fighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

Store at room temperature.

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SECTION 8. Exposure controls/personal protection

Exposure limit(s)

Contains no substances with occupational exposure limit values.

Engineering measures

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

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

Eye/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.

SECTION 9. Physical and chemical properties

Physical state	solid
Color	white
Odor	odorless
Odor Threshold	not applicable
рН	9 at 100 g/l 68 °F (20 °C)
Melting point	280 °C (decomposition)
Boiling point	No information available.
Flash point	not applicable

Product number Product name	SX0665 Sodium Nitrite GR ACS	Version 1.2
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Lower explosion limit	No information available.	
Upper explosion limit	No information available.	
Vapor pressure	No information available.	
Relative vapor density	No information available.	
Density	2.1 g/cm³ at 68 °F (20 °C)	
Relative density	No information available.	
Water solubility	820 g/l at 68 °F (20 °C)	
Partition coefficient: n- octanol/water	log Pow: -3.7 OECD Test Guideline 107 Bioaccumulation is not expected.	
Autoignition temperature	No information available.	
Decomposition temperature	> 608 °F (> 320 °C)	
Viscosity, dynamic	No information available.	
Explosive properties	Not classified as explosive.	
Oxidizing properties	The substance or mixture is classified as oxidizing with the category 3.	
Bulk density	1,200 kg/m³	

SECTION 10. Stability and reactivity

Reactivity

See below

Chemical stability

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

Possibility of hazardous reactions

Risk of explosion with:

combustible substances, Aluminum, Sulfides, Cyanides, potassium cyanide, urea, hydrazine and derivatives, oxidizable substances, unsaturated hydrocarbons, sodium amide, phenol, Ethylene oxide, strong reducing agents, Ammonium salts, amides, hydrochloric acid, Potassium hexacyanoferrate (II)

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A risk of explosion and/or of toxic gas formation exists with the following substances:

Acids

with, Amines, Release of:, Nitrosamine

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

butadiene

Exothermic reaction with:

Ethylene oxide

Conditions to avoid

Strong heating (decomposition).

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 Eye contact, Skin contact, Ingestion *Acute oral toxicity* LDLO human: 71 mg/kg (RTECS)

LD50 rat: 85 mg/kg (IUCLID)

absorption

Acute inhalation toxicity LC50 rat: 5.5 mg/l; 4 h (RTECS)

Symptoms: slight mucosal irritations, After a latency period:, Lung edema

Skin irritation rabbit Result: No irritation OECD Test Guideline 404

Eye irritation rabbit Result: slight irritation OECD Test Guideline 405

Carcinogenicity Did not show carcinogenic effects in animal experiments. (IUCLID)

Reproductive toxicity No impairment of reproductive performance in animal experiments. (IUCLID) *Teratogenicity* Did not show teratogenic effects in animal experiments. (IUCLID)

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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

After absorption:

Nausea, narcosis, Cyanosis

After absorption of large quantities:

Headache, Vomiting, Unconsciousness, drop in blood pressure, depressed respiration, collapse, Methaemoglobinemia

The following applies to nitrites in general: risk of methemoglobin formation. Possibility of formation of nitrosamines with secondary and in given circumstances even tertiary amines. Nitrosamines have shown themselves to be carcinogenic in animal experiments. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

Ecotoxicity

Toxicity to fishLC50Oncorhynchus mykiss (rainbow trout): 0.09 - 0.13 mg/l; 96 h (ECOTOX Database)Toxicity to daphnia and other aquatic invertebratesEC5E.sulcatum: 2.8 mg/l; 72 h (IUCLID)EC50Daphnia magna (Water flea): 12.5 - 100 mg/l; 48 hOECD Test Guideline 202Toxicity to bacteriaEC5Pseudomonas putida: 123 mg/l; 16 hOECD Test Guideline 209

Persistence and degradability

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Biodegradability

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

Bioaccumulative potential

Partition coefficient: n-octanol/water log Pow: -3.7 OECD Test Guideline 107 Bioaccumulation is not expected.

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 Proper shipping name Class Packing group	UN 1500 SODIUM NITRITE 5.1 (6.1) III
Environmentally hazardous	
Air transport (IATA) UN number Proper shipping name Class Packing group Environmentally hazardous Special precautions for user	UN 1500 SODIUM NITRITE 5.1 (6.1) III no
Sea transport (IMDG) UN number Proper shipping name Class Packing group Environmentally hazardous Special precautions for user	UN 1500 SODIUM NITRITE 5.1 (6.1) III yes

Product number Product name	SX0665 Sodium Nitrite GR AC	S	Version
EmS	F-A S-Q		
ECTION 15. Regulatory ir United States of America OSHA Hazards Oxidizer	nformation		
Toxic by ingestion			
	ed on 29 CFR 1910.1200 crite nformation on the label and in		he GHS, and may
SARA 311/312 Hazard Fire Hazard Acute Health Hazard	S		
Reactivity Hazard Acute Health Hazard			
313:	ents are subject to reporting le	vels established by SAF	RA Title III, Section
<i>Ingredients</i> sodium nitrite		7632-00-0	100 %
SARA 302 SARA 302: No chemica III, Section 302.	als in this material are subject	to the reporting require	ments of SARA Title
Clean Water Act			
The following Hazardou <i>Ingredients</i> sodium nitrite	us Substances are listed unde	r the U.S. CleanWater A	Act, Section 311, Table 116.4A:
The following Hazardou <i>Ingredients</i> sodium nitrite	us Chemicals are listed under	the U.S. CleanWater A	ct, Section 311, Table 117.3:
DEA List I Not listed			
DEA List II Not listed			
TSCA 12b			
Ingredients			
sodium nitrite		7632-00-0	
US State Regulations			
Massachusetts Right To Ingredients	o Know		
sodium nitrite			

Product number	SX0665	Version 1.2
Product name	Sodium Nitrite GR ACS	
<i>Ingredients</i> sodium nitrite		
New Jersey Right To Kr <i>Ingredients</i> sodium nitrite	now	
California Prop 65 Com This product does not c birth, or any other repro	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.
H301	Toxic if swallowed.
H400	Very toxic to aquatic life.

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.

Revision Date 06/03/2014

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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