



DUDA ENERGY LLC

Safety Data Sheet Sodium Nitrite

SECTION 1: Identification

1.1 Product identifier

Product name	Sodium Nitrite
Product number	Unavailable
Brand	Unavailable
Substance name	SODIUM NITRITE
EC no.	231-555-9
CAS no.	7632-00-0
Index no.	007-010-00-4

1.2 Other means of identification

None

1.3 Recommended use of the chemical and restrictions on use

Diazotization, rubber accelerators, color fixative and preservative in cured meats, meat products and fish; pharmaceuticals, photographic and analytic reagent, dye manufacture, antidote for cyanide poisoning.

1.4 Supplier's details

Name	Duda Energy LLC
Address	1112 Brooks St. Decatur, AL 35601 USA
Telephone	256.340.4866
Fax	Unavailable
email	Unavailable

1.5 Emergency phone number(s)

800.255.3924 (Chemtel)

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: UN GHS rev. 5

- Acute toxicity, inhalation (chapter 3.1), Cat. 1
- Acute toxicity, oral (chapter 3.1), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1
- Oxidizing solids (chapter 2.14), Cat. 3

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H272	May intensify fire; oxidizer
H300	Fatal if swallowed
H319	Causes serious eye irritation
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P220	Keep/Store away from clothing/.../combustible materials.
P221	Take any precaution to avoid mixing with combustibles/...
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/...
P320	Specific treatment is urgent (see ... on this label).
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use ... to extinguish.
P391	Collect spillage.

P403+P233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to ...

2.3 Other hazards which do not result in classification

None

Statement regarding ingredients of unknown toxicity

2% of the mixture consists of component(s) of unknown acute oral toxicity. 2% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 2% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	SODIUM NITRITE
EC no.	231-555-9
CAS no.	7632-00-0
Index no.	007-010-00-4
Formula	NaNO ₂
Molecular weight	69
Other names / synonyms	Sodium Nitrite
Impurities and stabilizing additives	Other components below reportable levels: 2%

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	None
If inhaled	Remove individual to fresh air and keep resting in a position comfortable for breathing. Supply oxygen or artificial respiration if needed. Do not use mouth-to-mouth on someone who has inhaled a potentially hazardous substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a doctor or poison control center immediately.
In case of skin contact	If on clothing: rinse contaminated clothing and skin with plenty of water before removing. Wash off with soap and water. Get medical attention if irritation develops and persists.
In case of eye contact	Do not rub eyes. Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do so, then continue rinsing. Get medical attention if irritation develops and persists.

If swallowed

Call a doctor or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content does not get into lungs. Do not use mouth-to-mouth if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Personal protective equipment for first-aid responders

Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves.

4.2 Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dust may irritate the respiratory tract, skin, and eyes.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Provide general supportive measure and treat symptomatically. Keep individual warm. Keep individual under observation. Symptoms may be delayed.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

5.2 Specific hazards arising from the chemical

Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases hazardous to health may be formed.

5.3 Special protective actions for fire-fighters

SCBA and full protective clothing must be worn.

Cool containers exposed to flames with water until well after the fire is out.

Further information

In case of fire and/or explosion, do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep away from clothing and other combustible materials. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is any risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

6.2 Environmental precautions

Avoid release into the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water-ways, or onto the ground. Inform appropriate authorities of all environmental releases.

6.3 Methods and materials for containment and cleaning up

If you spill this chemical, you should dampen the solid spill material with water, then transfer the dampened material to a suitable container. Use absorbent paper dampened with water to pick up any remaining material. Seal your contaminated clothing and the absorbent paper in a vapor-tight plastic bag for eventual disposal. Wash all contaminated surfaces with a soap and water solution. Do not reenter the contaminated area until the Safety Officer (or other responsible person) has verified that the area has been properly cleaned.

Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from heat. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust. Avoid contact with eyes. Do not taste or swallow. When using, do not eat, drink, or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat. Store in a cool, dry place out of direct sunlight. Store in original, tightly closed container. Store in a well-ventilated place. Do not store near combustible materials. Store away from incompatible materials.

Specific end use(s)

None other than previously stated (Sec 1)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. SODIUM NITRITE (CAS: 7632-00-0 EC: 231-555-9)

No exposure limits noted for ingredient(s).

8.2 Appropriate engineering controls

Good general ventilation (Typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Eye wash facilities and emergency showers must be available when handling this product.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields, goggles, a face shield, or full-face respirator.

Skin protection

Wear chemical resistant clothing and gloves.

Body protection

Gloves, goggles/glasses/face shield, long-sleeves

Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Dust+vapor respirator.

Thermal hazards

N/A

Environmental exposure controls

Ensure material does not enter into the environment through spillage/leak or unsafe handling.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties**

Appearance/form (physical state, color, etc.)	Solid, Powder
Odor	Not available
Odor threshold	Not available
pH	9
Melting point/freezing point	271°C
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability limits	Not available
Vapor pressure	0.00001 hPa (estimated)
Vapor density	Not available
Relative density	2.168 @ 20°C
Solubility(ies)	Not available
Partition coefficient: n-octanol/water	log Pow: -3.7
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	None
Oxidizing properties	Oxidizer Cat 3

Other safety information

Unavailable.

SECTION 10: Stability and reactivity**10.1 Reactivity**

Greatly increases the burning rate of combustible materials.

10.2 Chemical stability

Material is stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Heat. Exposure to incompatible materials.

10.5 Incompatible materials

Combustible material. Reducing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products are known for this material.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Fatal if inhaled. Fatal if swallowed.

Sodium Nitrite:

LD50 Oral - rat - 157.9 mg/kg

LD50 Oral - mouse - 175 mg/kg

Remarks: Vascular:BP lowering not characterized in autonomic section. Vascular:Regional or general arteriolar or venous dilation.

Skin corrosion/irritation

Skin - rabbit

Result: No skin irritation - 48 h

(OECD Test Guideline 404)

Prolonged skin contact may cause temporary irritation.

Serious eye damage/irritation

Eyes - rabbit

Result: Moderate eye irritation - 24 h

(OECD Test Guideline 405)

Causes serious eye irritation.

Respiratory or skin sensitization

Neither a respiratory nor skin sensitizer.

Germ cell mutagenicity

Not mutagenic or genotoxic.

Carcinogenicity

Not a carcinogen (IARC, ACGIH, NTP, or OSHA)

Reproductive toxicity

Not expected to cause reproductive or developmental effects.

Summary of evaluation of the CMR properties

N/A

STOT-single exposure

Not classified

STOT-repeated exposure

Not classified

Aspiration hazard

Not an aspiration hazard.

Additional information

None.

SECTION 12: Ecological information**Toxicity**

Very toxic to aquatic life with long lasting effects.

Sodium Nitrate (CAS: 7632-00-0)

EC50: Greasyback shrimp (*Metapenaeus ensis*) 16.14-26.61 mg/l (48hr)

LC50 Rainbow trout (*Oncorhynchus mykiss*) 0.15-0.25 mg/l (96hr)

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects

No adverse effects other than listed are known for this product.

SECTION 13: Disposal considerations**Disposal of the product**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of in accordance with local/regional/national/international regulations.

Disposal of contaminated packaging

Emptied containers and liners may still have some quantity of potentially hazardous material. Handle according to labelled warnings and dispose of in accordance with all local regulations.

Waste treatment

Dispose of all chemical wastes in accordance with local regulations.

Sewage disposal

Do not allow product to enter into ponds, waterways, sewers, or ditches.

Other disposal recommendations

Always observe all applicable regulations.

SECTION 14: Transport information**DOT (US)**

UN number: 1500

Class: 5.1 (6.1)

Packing group: III

Proper shipping name: Sodium nitrite

Reportable Quantity (RQ): 100 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number: 1500

Class: 5.1 (6.1)

Packing group: III

EMS-No: F-A, S-Q

Proper shipping name: SODIUM NITRITE

Marine pollutant: No

IATA

UN number: 1500

Class: 5.1 (6.1)

Packing group: III

Proper shipping name: Sodium nitrite

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations specific for the product in question****SARA 302 Components**

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

SARA 311/312 Hazards

Reactivity hazard, Acute health hazard, Chronic health hazard

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:
Sodium nitrite CAS-No. 7632-00-0

Pennsylvania Right To Know Components

Chemical name: Nitrous acid, sodium salt

CAS number: 7632-00-0

New Jersey Right To Know Components

Common name: SODIUM NITRITE

CAS number: 7632-00-0

Massachusetts Right To Know Components

Chemical name: Sodium nitrite
CAS number: 7632-00-0

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical Safety Assessment

N/A

HMIS Rating

SODIUM NITRITE	
HEALTH	*
2	
FLAMMABILITY	
PHYSICAL HAZARD	
1	
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

The information provided in this Safety Data Sheet is correct to the best of Duda Energy LLC's 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. This Safety Data Sheet only contains information relating to safety and does not replace any product information or product specification. Please note, the content may be changed, corrected, or deleted at any time without notice and may not always necessarily reflect the most current data. Duda Energy LLC will assume

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16.2 Preparation information

Version: 2

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