



Sodium Nitrite PRODUCT PROFILE

CHARACTERISTICS

Sodium nitrite is a pale, straw-colored, granular or flake material that is soluble in water upon heating. It is stable in neutral or alkaline solutions, but decomposes in acid solutions to form unstable nitrous acid.

PROPERTIES

Chemical formula NaNO_2
Molecular weight 69.00
Bulk density, lb/ft³ 62.4 - 71.4 (flake)
..... 76.9 - 80.5 (granular)
Heat of solution, BTU/lb -91.7 (granular)

SPECIFICATIONS

	GRANULAR FREE- FLOWING FOOD GRADE	GRANULAR FREE- FLOWING TECHNICAL	HIGH PURITY FLAKE	HIGH PURITY GRANULAR	CRYSTAL REAGENT ACS	HIGH PURITY SPECIAL GRANULAR	PURE ^e LIQUOR (40%)	TECHNICAL LIQUOR
Sodium nitrite (NaNO_2), % min.	99.0 ^a	99	99.0	99.0 ^a	99.0	98.3	40	—
Sodium nitrate (NaNO_3), % max.	—	—	—	—	—	—	2	—
Total NaNO_2 & NaNO_3 % max.	—	—	—	—	—	—	47	53
Sodium carbonate (Na_2CO_3), % max.	0.15 ^b	0.2	0.15	0.15 ^b	—	0.3 - 0.6	—	—
Loss on drying, % max.	0.25	0.3	0.25	0.25	—	0.25	—	—
Identification	To pass test	—	—	To pass test	—	—	—	—
Lead, ppm max.	4 ^d	—	—	4 ^d	—	—	—	—
Anti-caking agent, %	0.03 - 0.14 ^c	0.03 - 0.20 ^c	—	—	—	—	—	—

^a FCC limit is 97.0 to 100.5%, dry basis

^c Added physically to sodium nitrite

^e Liquor specifications are tailored to specific customer requirements

^b Not a FCC requirement

^d FCC limit not more than 4 mg/kg

PRODUCT MARKETS AND USES

Chemicals and Dyes

- Source of nitrous acid for nitration, diazotization and nitrosation

Meats

- Curing salt formulations

Metals

- Corrosion inhibitor in antifreeze, paints, oil tanks and pipelines, etc.
- Oxidizing agent and depolarizer in detinning
- In phosphate coatings
- In gold plating baths

Miscellaneous

- Heat transfer salt

Rubber

- Polymer inhibitor for synthetic rubber
- Nitrous acid source for accelerators, retarders and antioxidants / antiozonants
- Foam rubber blowing agent

Wastewater Treatment

- Odor control
- Bacteria activity inhibitor

Sodium Nitrite

PRODUCT PROFILE

GRADES, FORMS & SHIPPING CONTAINERS

HIGH PURITY FLAKE ¹	50 lb. and 100 lb. bag 400 lb. drum ⁴ Minibulk bag ⁴
HIGH PURITY GRANULAR GRADE ²	50 lb. bag
REAGENT GRADE	100 lb. drum
GRANULAR FREE-FLOWING FOOD GRADE ³	50 lb. and 100 lb. bag 400 lb. drum ⁴ Minibulk bag ⁴
GRANULAR FREE-FLOWING TECHNICAL GRADE ¹	50 lb. and 100 lb. bag 400 lb. drum ⁴ Minibulk bag ⁴
PURE LIQUOR (40%) ¹	Bulk tank truck Bulk tank car
TECHNICAL LIQUOR ¹	Bulk tank truck Bulk tank car

¹These products are not for use as food or drug additives.

²Not for drug use.

³Not for drug use. Not for food use in Canada.

⁴Can customize quantities.

SHIPPING LOCATION

- Syracuse, NY

SHIPPING REGULATIONS

DRY:

Hazard class: 5.1

Label: *Oxidizer*

Subsidiary Label: *Toxic*

ID Number: *UN1500*

Proper Shipping Name: *Sodium Nitrite*

Packing Group: *III*



LIQUOR:

Hazard class: 9

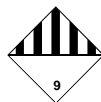
Label: *Miscellaneous*

ID Number: *UN3082*

Proper Shipping Name:

*Environmentally Hazardous Substance, Liquid,
N.O.S. (Contains Sodium Nitrite)*

Packing Group: *III*



PRODUCT SAFETY INFORMATION

Sodium nitrite may irritate the skin or eyes. Although it is used in small amounts as a food preservative, direct ingestion can irritate the mouth, esophagus or stomach, cause other toxic effects and can even be fatal. Inhaling sodium nitrite dust can irritate the nose, throat or lungs. Inhaling large amounts of dust, or mist can cause acute toxic effects and can be fatal.

As with any chemical, sodium nitrite requires care in handling. Anyone responsible for the procurement, use or disposal of this product should familiarize himself and those handling the product with the appropriate safety and handling precautions. This information is available in the Material Safety Data Sheet, which may be obtained by contacting our Customer Service group (see box below).

In the event of an emergency with these products, call the 24 hour Emergency Number:
US Only: (CHEMTREC) (800) 424-9300
Canada Only: (CANUTEC) (613) 996-6666

CORPORATE HEADQUARTERS

General Chemical
90 East Halsey Road
Parsippany, NJ 07054

IN CANADA

Call Customer Service at
(800) 631-8050 (English)
(866) 543-3896 (French)



CUSTOMER SERVICE

(800) 631-8050

TECHNICAL SERVICE

(800) 255-7589 or (315) 478-2323

WEBSITE

www.GeneralChemical.com

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