



Sodium Nitrite, Free-Flowing Food Grade

PRODUCT DATA SHEET

CHARACTERISTICS

Sodium Nitrite, Free-Flowing Food Grade is a pale straw-colored dry granular product.

Meets all Food Chemicals Codex specifications. Certified Pareve and Kosher.

TYPICAL PROPERTIES

Formula:	Sodium Nitrite	
C.A.S.	7632-00-0 (Sodium nitrite)	
Bulk Density, lbs./cu. ft.		76.9 - 80.5
Granulation: Through 40 mesh screen, %		75
Through 50 mesh screen, %		34
Through 70 mesh screen, %		15
Through 100 mesh screen, %		5.5
Assay as NaNO ₂ , %		99.4 - 99.6
Lead (Pb), ppm		<1
Loss on Drying, %		0.10 - 0.15
Sodium Carbonate (Na ₂ CO ₃), %		0.15 (max)
Anti-Caking Agent, %		0.03 - 0.14

PRODUCT USES

Curing salt formulations.

SHIPPING CONTAINER

2000 lb. Super Sack mini-bulk bag	400 lb. fiber drum
100 lb. 4-ply polyethylene coated fiber bag	50 lb. poly bag

SHIPPING REGULATIONS

DOT Classification: Sodium Nitrite

Hazard Class: 5.1

DOT ID Number: UN 1500

Packing Group: III

PRODUCT SAFETY INFORMATION

Sodium Nitrite, Free-Flowing Food Grade may cause irritation to the skin, eyes and respiratory tract. Avoid contact with skin, eyes and clothing. Anyone procuring, using or disposing of these products or their containers must be familiar with the appropriate safety and handling precautions. Such information may be found in the **Material Safety Data Sheets (MSDS)** for these products or you may contact Chemtrade Technical Service. In the event of an emergency with these products, call the 24 hour **Emergency Number: USA (CHEMTREC) 800-424-9300** or **Canada (CANUTEC) 613-996-6666**. For additional information contact:

Syracuse Technical Center
(315) 478-2323
(800) 255-7589 Outside NY

Select Specialties – Sales
(973) 515-1833
LMcShane@chemtradelogistics.com

Revision Date: February 21, 2014



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	HIGH PURITY SPECIAL GRANULAR	40% SOLUTION ^e	TECHNICAL SOLUTION
Sodium nitrite (NaNO_2), % min.	99.0 ^a	99	99.0	99.0 ^a	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 Solution 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
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
40% SOLUTION ¹	Bulk tank truck Bulk tank car
TECHNICAL SOLUTION 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 USA

SHIPPING REGULATIONS

DRY:

Hazard class: 5.1

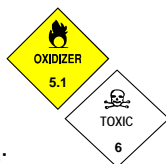
Label codes: 5.1, 6.1

ID Number: UN1500

Proper Shipping Name:

Sodium Nitrite

Packing Group: III



SOLUTION:

Hazard class: 6.1

Label code: 6.1

ID Number: UN3287

Proper Shipping Name:

Toxic Liquid, Inorganic, N.O.S.

(Contains Sodium Nitrite, Sodium Nitrate)

Packing Group: III



PRODUCT SAFETY INFORMATION

Sodium nitrite is toxic if swallowed, and causes serious eye irritation. Wash hands, forearms, and exposed areas thoroughly after handling. Wear eye protection, protective clothing, and protective gloves. Do not eat, drink or smoke when using this product. Avoid release to the environment.

As with any chemical, sodium nitrite requires care in handling. Anyone procuring, using or disposing of these products or their containers must be familiar with the appropriate safety and handling precautions. Such information may be found in the Safety Data Sheets (SDS) for these products or you may contact Chemtrade at 416-496-5856.

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

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Toronto, Ontario M2H 3N5 Canada



SELECT SPECIALTIES SALES

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TECHNICAL SERVICE

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WEBSITE

www.chemtradelogistics.com

Revision Date: August 18, 2015

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