Safety Data Sheet

Nitrite quality control in meat products

Version: V2.0.0.1

Report No.: BWS0156-2016-MSDS-US

Creation Date: 2025/10/21

Revision Date: -



*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1 Identification	on
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| Product identifier

Product Name	Nitrite quality control in meat products
Cat No.	BWS0156-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

Emergency phone number

Emergency phone number 010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Acute Toxicity - Oral | Category 3

Label elements

Hazard pictograms



Signal word

Danger

| Hazard statements

<u> </u>	
H301	Toxic if swallowed

| Precautionary statements

Prevention

P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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Response

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P321	Specific treatment (see related instructions on the label).
P330	Rinse mouth.

Version: V2.0.0.1 Revision Date: -

Storage

P405	Store	locked	up.
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Disposal

P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

	No information available	
→ Health hazards		
Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.	
Ingestion	Toxic effects may result from the accidental ingestion of the product.	
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.	
Eye	This product may cause temporary discomfort following direct contact with the eye.	
◆ Environmental hazards		

Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

| Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Sodium nitrite	7632-00-0	231-555-9	< 0.01

4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of

	soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Version: V2.0.0.1 Revision Date: -

Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO ₂ or water spray; Large fire: water spray, fog or regular foam; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Do not get water inside containers.
Unsuitable extinguishing media	Large fire: avoid aiming straight or solid streams directly onto the product.

Specific hazards arising from the substance or mixture

- 1 May emit poisonous fumes on fire.
- 2 Development of hazardous combustion gases or vapor possible in the event of fire.
- 3 May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- 2 Do not touch or walk through spilled material.
- 3 Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- 4 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 5 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 6 Use personal protective equipment, do not breathe dust/fume.

Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.2 Discharge into the environment must be avoided.
- Methods and materials for containment and cleaning up
- 1 Isolation of contaminated areas and restrictions on access.
- 2 It is recommended that emergency personnel wear dust masks and wear anti-virus suits.
- 3 Do not touch broken containers and spills before putting on appropriate protective clothing.
- 4 Cover the spill with a plastic sheet to reduce scattering.
- 5 Cut off the source of the leak as much as possible.
- 6 Keep leaks in a ventilated place.
- 7 It is recommended that emergency personnel wear dust masks.
- 8 Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.
- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 7 Handling and storage

Precautions for safe handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 8 Exposure controls/personal protection

Control parameters

Occupational exposure limit values

Occupational Exposure limit values

No relevant regulations

| Engineering controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

General requirement











Version: V2.0.0.1 Revision Date: -

Eye protection

Must wear appropriate safety goggles.

Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

Version: V2.0.0.1 Revision Date: -

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Pink to light brown homogeneous paste or powder
No information available
No information available
9 (100g/L , 20°C,Sodium nitrite)
271 (Sodium nitrite)
Decompose before boiling (Sodium nitrite)
Not applicable
Not applicable
No information available
Upper limit : No information available ; Lower limit : No information available
9.9E-17hPa (25°C,Sodium nitrite)
Not applicable
2.2 (Sodium nitrite)
820 g/L (20°C,Sodium nitrite)
-3.7 (Sodium nitrite)
No information available
280 (Sodium nitrite)
Not applicable

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.	
Chemical stability	Stable under proper operation and storage conditions.	
Possibility of hazardous reactions	No information available.	
Conditions to avoid	Incompatible materials, heat, flame and spark.	
Incompatible materials	Active metal powder, non-metal elemental powder, sulfide, metal amino compound, metal acetylene compound, phenols, metal sulfamate, metal cyanide, thiocyanate, phosphide, hypophosphite, carboxylic acid, carboxylic anhydride, Carboxylic acid esters, ethanol, reducing agents and performic acid.	
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products	
products	should not be produced.	

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Sodium nitrite	180mg/kg(Rat)	No information available	5.5mg/L(Rat)

Version: V2.0.0.1 Revision Date: -

| Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Sodium nitrite	Not Listed	Not Listed	Not Listed

Others

Nitrite quality control in meat products		
Skin corrosion/irritation	Based on available data, the classification criteria are not met	
Serious eye damage/irritation	Based on available data, the classification criteria are not met	
Skin sensitization	Based on available data, the classification criteria are not met	
Respiratory sensitization	Based on available data, the classification criteria are not met	
Reproductive toxicity	Based on available data, the classification criteria are not met	
STOT-repeated exposure	Based on available data, the classification criteria are not met	
Aspiration hazard	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	Based on available data, the classification criteria are not met	

12 Ecological information

| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Sodium nitrite	LC ₅₀ : 0.675mg/L (96h)(Fish)	No information available	No information available

| Chronic aquatic toxicity

Chronic aquatic toxicity No information available

| Persistence and degradability

Persistence and degradability No information available

Bioaccumulative potential

Bioaccumulative potential No information available

| Mobility in soil

Mobility in soil No information available

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and	
	regulation. Recommend the use of incineration disposal.	
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot	
	and ignition source of fire. Return to supplier for recycling if possible.	
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.	

14 Transport information

Label and Mark

Transporting Label



IMDG-CODE

UN number	3288
UN proper shipping name	TOXIC SOLID, INORGANIC, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	3288
UN proper shipping name	TOXIC SOLID, INORGANIC, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш

UN-ADR

UN number	3288
UN proper shipping name	TOXIC SOLID, INORGANIC, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш

Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆ Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport	Transit should be anti-exposure, rain, high temperature. Strictly prohibited
	shipping or transportation with acids, alkalis, oxidants, food and food additives
	etc. Transport vehicles should be equipped with the appropriate variety and
	quantity of fire equipment and emergency equipment leakage during transport.
	Before transport, should be preceded by checking whether container integrity,

Version: V2.0.0.1 Revision Date: -

sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

Version: V2.0.0.1 Revision Date: -

15 Regulatory information

International chemical inventory

Component	Α	В	С	D	Е	F	G	Н	I	J	K	L	M
Sodium nitrite	√	√	√	√	√	√	$\sqrt{}$	√		V	√	√	

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZIoC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- [G] Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	Α	В	С
Sodium nitrite	×	×	×

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
Sodium nitrite	×	×	√	√	√	√	√	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/21
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.

Version: V2.0.0.1 Revision Date: -

- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	RespiratoryProtective Equipment
ED	Endocrine dis ruptor	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.