Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

Date Issued: 22 June 2009
Document Number: 0020103MS
Date Revised: 04 September, 2014
Revision Number: 5

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name (as labeled):	**Anti-Rust Powder**
Part/Item Number:	20103

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Recommended Use:	Metal Protection
Restrictions on Use:	For professional use only

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name:	Sultan Healthcare
Manufacturer/Supplier Address:	1301 Smile Way York, PA, USA
Manufacturer/Supplier Telephone Number:	1-201-871-1232 or 800-637-8582 (Product Information)-
Email address:	customer.service@sultanhc.com

1.4 Emergency Telephone Number:

Emergency Contact Telephone Number:	800-535-5053 (INFOTRAC) 1-352-323-3500 (Outside the United States – Call Collect)

2. HAZARD(s) IDENTIFICATION

2.1 Classification of the Substance or Mixture:

GHS SDS Classification:

Health	Environmental	Physical
Acute Toxicity Category 4 H302 Eye Irritation Category 2	Aquatic Acute Category 1 H400	Oxidizing Solid Catetory 3

EU Classification (1999/45/EC as amended): Oxidizing (O), Irritant (Xi), Toxic (T), Dangerous for the Environment (N)

EU Risk (R) Phrases: R8, R25, R36, R50

Refer to Section 16 for the full text of the EU Classifications and R Phrases.

2.2 Labeling Elements: Contains Sodium Nitrate

Signal Word: Danger!

Hazard Statements	Precautionary Statements
H217 May cause fire or explosion; strong oxidizer. H302 Harmful if swallowed. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.	P210 Keep away from heat. P220 Keep away from clothing and other combustible materials. P221 Take any precaution to avoid mixing with combustible materials. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves, eye protection and face protection. P283 Wear fire retardant or flame resistant clothing. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P330 Rinse mouth. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. P391 Collect spillage. P501 Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous Components	C.A.S. # EC#	IUPAC Name	CLP/GHS / EU Classification (1272/2008) (1999/45/EC)	WT %

Sodium Carbonate	497-19-8 / 207-838-8	Sodium Hydrogen Carbonate	Xi; R36 Eye Irrit 2 (H319)	50-70
Sodium Nitrite	7632-00-0 / 231-555-9	Sodium Nitrite	O, T, N, R8, R25, R50 Ox. Sol. 3 (H272) Acute Tox. 3 (H301) Aquatic Acute 1 (H400)	15-30

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS and H phrases and EU Classifications and R Phrases.

4. FIRST-AID MEASURES

4.1 Description of First Aid Measures:

Routes of Exposure	First Aid Instructions
Eye	Immediately flush eyes with large quantities of water for several minutes, holding the eyelids apart. Get medical attention.
Skin	Wash skin thoroughly with soap and water. Get medical attention if irritation develops.
Inhalation	None needed under normal use conditions. If irritation or other symptoms develop, remove from exposure and get medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water and give one glass of water to drink. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

Direct contact may cause eye irritation. Swallowing may cause headache, intense cyanosis, nausea, vertigo, vomiting, and collapse, spasms of abdominal pain, tachycardia, tachypnea, coma, convulsions and death.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

If swallowed, get immediate medical attention.

Note to Physicians (Treatment, Testing, and Monitoring): Treatment of overexposure should be directed at the control of symptoms and clinical conditions.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Use media appropriate for surrounding fire.

5.2 Special Hazards Arising from the Substance or Mixture:

Oxidizer. Contact with combustible or flammable materials may cause fire. Decomposition products may be hazardous.

5.3 Advice for Fire-Fighters:

Fire Fighting Procedures:	Cool fire exposed containers and structures with water.
Precautions for Fire Fighters:	Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals

Recommended Protective Equipment for Fire Fighters:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective clothing, gloves and eye protection.

Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

6.2 Environmental Precautions:

Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

6.3 Methods and Material for Containment and Cleaning up:

Collect dry material by scooping or sweeping, taking care not to generate air-borne dust. Keep product away from all flammable or combustible materials. If absorbent material is used – do not use sawdust or any combustible material. Place in appropriate containers for disposal.

6.4 Reference to Other Sections:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handing:

Avoid contact with the eyes, skin and clothing. Avoid breathing dust. Wear appropriate protective clothing and equipment. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep product away from all flammable and combustible materials including paper, rags and clothing.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage.

7.3 Specific End Use (s): For professional use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Occupational Exposure Limits:

Sodium Carbonate	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	France	None Established
	Spain	None Established
	Italy	None Established
	European Union	None Established
Sodium Nitrite	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	France	None Established
	Spain	None Established
	Italy	None Established
	European Union	None Established

Biological Exposure Limits: None Established

8.2 Exposure Controls:

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to minimize exposure levels.

Individual Protection Measures (PPE)

Specific Eye/face Protection: Avoid eye contact. Safety glasses or goggles should be worn if contact is likely.
Specific Skin Protection: Wear impervious gloves such as rubber. Contact glove supplier for thickness and breakthrough times.
Specific Respiratory Protection: None required under normal use conditions.
Specific Thermal Hazards: Not applicable

Recommended Personal Protective Equipment

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:			
Appearance:	White Powder	**Explosive limits:**	Not applicable
Odor:	None	**Vapor pressure:**	Not applicable
Odor threshold:	Not applicable	**Vapor density:**	Not applicable
pH:	9.2 (10% in water)	**Relative density:**	1.258 @ 25°C
Melting/freezing point:	>260°C	**Solubility:**	Soluble
Initial boiling point and range:	Not applicable	**Partition coefficient: n-octanol/water:**	Not available
Flash point:	Not flammable	**Auto-ignition temperature:**	Not applicable
Evaporation rate:	Not applicable	**Decomposition temperature:**	May explode if heated above 530°C
Flammability:	Not flammable	**Viscosity:**	Not applicable
Explosive Properties:	None	**Oxidizing Properties:**	Oxidizing

9.2 Other Information: None available

10. STABILITY AND REACTIVITY

10.1 Reactivity: Will not polymerize.
10.2 Chemical Stability: Stable
10.3 Possibility of Hazardous Reactions: Reacts vigorously with reducing agents and combustible materials.
10.4 Conditions to Avoid: Avoid excessive heat.
10.5 Incompatible materials: Avoid reducing agents, flammable and combustible materials, cyanides, sulfides, ammonium salts.
10.6 Hazardous Decomposition Products: Thermal decomposition may produce nitrogen, sodium, and carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eyes: May cause irritation with redness and tearing. Mechanical (abrasive) irritation may also occur.

Skin: May cause skin irritation.

Ingestion: Swallowing may cause headache, intense cyanosis, nausea, vertigo, vomiting, collapse, spasms of abdominal pain, tachycardia, tachypnea, coma, convulsions and death.

Inhalation: Inhalation of dust may cause mucous membrane and upper respiratory tract irritation and possible systemic toxicity as described under ingestion.

Chronic Health Effects: None known.

Carcinogenicity: None of the other components of this product are listed as carcinogens by OSHA, IARC, ACGIH, NTP or EU Directives. Sodium nitrite was negative in carcinogenicity studies in rats and mice.

Mutagenicity: Sodium Nitrite: Positive in chromosome aberration tests in-vitro with Chinese hamster ovary cells but negative in the dominant lethal assay in mice. Sodium carbonate: No data available.

Medical Conditions Aggravated by Exposure: Employees with pre-existing skin disorders may be at increased risk from exposure.

Acute Toxicity Data:
Sodium Nitrite: Oral rat LD50 85 mg/kg; Inhalation rat LC50 5.5 mg/L/4 hr
Sodium Carbonate: Oral Rat LD50 2,880 mg/kg; Inhalation rat LC50 2.3 mg/L/2 hr

Reproductive Toxicity Data: Sodium Nitrite: Rats received sodium nitrite at 100 mg/kg in drinking water daily during their entire life span over three generations; no evidence of chronic toxicity, carcinogenicity, or teratogenicity were found. Sodium carbonate: No adverse effects on reproduction have been observed in studies with rabbits, rats or mice.

Specific Target Organ Toxicity (STOT):

Single Exposure: Sodium nitrite: Single dose in rodents included vasodilatation, lowering of the blood pressure, decrease in vitamin A content in the liver, and functional disturbance of the thyroid gland.

Repeated Exposure: Sodium Nitrite: Mice chronically exposed to sodium nitrite at 1,000 and 2,000 mg/L in drinking water showed reduced motor activity. EEG recordings from implanted electrodes revealed major changes in brain electric activity in rats receiving nitrite at 100 to 2,000 mg/L. Chronic exposure of rats to sodium nitrite at 2,000 and 3,000 mg/L in drinking for 2 yr was associated with distinct pathologic changes in heart and lung tissues.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: Sodium Nitrite: 96 hr LC50 Gambusia affinis (Western mosquitofish) 1.5 mg/L, 96 hr Oncorhynchus mykiss (Rainbow trout) 0.79 mg/L

Sodium carbonate: No data available

12.2 Persistence and Degradability. Biodegradation is not applicable to inorganic substances. Sodium nitrite will convert to nitrate and remain in water until consumed by plants.

12.3 Bio-accumulative Potential. Not expected to bio-accumulate.
12.4 Mobility in Soil: No data available.
12.5 Other Adverse Effects: No data available.
12.6 Results of PBT/vPvB Assessment: Not required

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:
Regulations: Dispose in accordance with local and national environmental regulations.
Properties (Physical/Chemical) Affecting Disposal: This product is an oxidizer and should not be mixed with other materials for disposal.
Waste Treatment Recommendations: None known.

14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
DOT	UN1500	Sodium Nitrite Mixture	5.1 (6.1)	PG III	Yes in packages > RQ
ADR/RID	**UN1500**	Sodium Nitrite Mixture	5.1 (6.1)	PG III	Yes
IMDG	**UN1500**	Sodium Nitrite Mixture	5.1 (6.1)	PG III	Marine Pollutant-Yes
IATA/ICAO	**UN1500**	Sodium Nitrite Mixture	5.1 (6.1)	PG III	Yes

Note: In the United States packages with inner packagings with 5 kg or less may be re-classed and shipped as Consumer Commodity, ORM-D. Packages containing 330 lbs or more are subject to RQ provisions.

14.6 Special precautions for user: Not applicable
14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable – product is transported only in packaged form.

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA: This product has an RQ of 330 lbs based on the RQ for sodium nitrite of 100 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act (TSCA): All of the ingredients in this product are listed on the EPA TSCA Inventory.

Clean Water Act (CWA): Not Listed

Clean Air Act (CAA): Not Listed

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Hazard:	**Yes**	**Pressure Hazard:**	**No**
Delayed Hazard:	**No**	**Reactivity Hazard:**	**No**
Fire Hazard:	**Yes**		

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

Components	C.A.S. #	WT %
Sodium Nitrite	7632-00-0	<30%

State Regulations

California: This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
None		

International Regulations

Canadian Environmental Protection Act: All the components of this product are listed on the Canadian DSL.

Canadian Workplace Hazardous Materials Information System (WHMIS): Class-C, Class D-1-B, Class D-2-B

EU REACH: The substances in this product comply with the EU REACH regulation as applicable.

16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3:
N Dangerous for the Environment
O Oxidizing
T Toxic
Xi Irritant
R8 Contact with combustible material may cause fire
R25 Toxic if swallowed.
R36 Irritating to eyes.
R50 Toxic to aquatic organisms.

Ox. Sol. 3 Oxidizing Solid Category 3
Acute Tox. 3 Acute Toxicity Category 3
Eye Irrit. 2 Eye Irritation Category 2
Aquatic Acute 1 Aquatic Acute Toxicity Category 1
H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

Supersedes: 21 November 2011

Revision Summary: Comprehensive review, new format.

Date of SDS Preparation/Revision: 04 September, 2014

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau ESIS, Country websites for occupational exposure limits.