

# 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: 20103MS Date Revised: 21 November 2011 **Revision Number: 4** 

1. PRODUCT IDENTIFICATION			
Trade Name (as labeled):	Anti-Rust Powder		
Chemical Name/Classification:	Mixture		
Product Identifier (Part/Item Number):	20103		
U.N. Number:	UN1500		
U.N. Dangerous Goods Classification:	5.1 (6.1), PG III		
Recommended Use:	Metal Protection		
Restrictions on Use:	For Professional Use Only		
Manufacturer/Supplier Name:	Sultan Healthcare		
Manufacturer/Supplier Address:	411 Hackensack Avenue, 9 <sup>th</sup> Floor		
	Hackensack, NJ		
Manufacturer/Supplier Telephone Number:	1-201-871-1232 or 800-637-8582 (Product Information)		
Emergency Contact Telephone Number:	800-535-5053 (INFOTRAC)		
	1-352-323-3500 (Outside the United States - Call Collect)		
Email address:	customer.service@sultanhc.com		

# 2. HAZARD(s) IDENTIFICATION

EU Classification (1999/45/EC as amended): Oxidizing (O), Irritant (Xi), Toxic (T), Dangerous for the Environment (N) R8, R25, R36, R50

**EU Labeling:** 

A.	
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Oxidizing

Toxic

Dangerous for the Environment

#### R8 Contact with combustible material may cause fire. R25 Toxic if swallowed R36 Irritating to eyes. R50 Toxic to aquatic organisms S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of soap and water.

Contains sodium nitrite and sodium carbonate

S45 In case of accident or you feel unwell, seek medical advice immediately (show label where possible). S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. # EC#	IUPAC Name	Substance Classification 67/548/EEC (EC) No 1272/2008	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

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

### 4. FIRST-AID MEASURES

Routes of Exposure	First Aid Instructions
Eye	Immediately flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get immediate 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.
Most important symptoms of exposure	Direct contact may cause eye irritation. Swallowing may cause headache, intense cyanosis, nausea, vertigo, vomiting, collapse, spasms of abdominal pain, tachycardia, tachypnea, coma, convulsions and death.
Other	This product is an oxidizer and may present a fire hazard.
Note to Physicians ( of symptoms and clin	<b>Treatment, Testing, and Monitoring):</b> Treatment of overexposure should be directed at the control nical conditions.

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use media appropriate for surrounding fire.
Fire Fighting Procedures:	Cool fire exposed containers and structures with water.
Specific Hazards Arising from	Oxidizer. Contact with combustible or flammable materials may cause fire.
the Chemical:	Decomposition products may be nazardous.
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	
RES O		R		

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Wear appropriate protective clothing, gloves and eye protection.

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

**Methods and Materials for Containment and Clean-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.

**Recommended Personal Protective Equipment for Containment and Clean-up:** 

EYES/FACE	SKIN	RESPIRATORY	THERMAL

### 7. HANDLING AND STORAGE

**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.

**Conditions for Safe Storage:** Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposu	re Limits:			
Sodium Carbonate	United States	None Establish	ed	
	Germany	None Establish	ed	
	United Kingdom	None Establish	ed	
	France	None Establish	ed	
	Spain	None Establish	ed	
	Italy	None Establish	ed	
	European Union	None Establish	ed	
Sodium Nitrite	United States	None Establish	ed	
	Germany	None Establish	ed	
	United Kingdom	None Establish	ed	
	France	None Establish	ed	
	Spain	None Establish	ed	
	Italy	None Establish	ed	
	European Union	None Establish	ed	
Individual Protection Specific Eye/ Specific Skin	Measures (PPE) face Protection: Avoid	l eye contact. Safe pervious gloves su	ty glasses or goggles should ich as rubber. Recommende	be worn if contact is likely. ed glove: Rubber. Contact glove
supplier for th	nickness and breakthrou	gh times.	1 11.1	
Specific Resp Specific Ther	matory Protection: Not approximately and the second s	one required unde blicable	r normal use conditions.	
	Recomn	nended Personal	Protective Equipment:	
EYES/FACE		SKIN	RESPIRATORY	THERMAL
$\overline{\bigcirc}$				
Environmental Expos	sure Controls: None r	equired for norma	l use.	
General Hygiene Con with soap and water af	<b>siderations and Worl</b> ter handling. Eye wash	<b>A Practices:</b> Avo facilities should b	id contact with the eyes, skir e available in the work area.	and clothing. Wash thoroughly

Protective Measures During Repair and Maintenance of Contaminated Equipment: Not applicable for product.

Appearance:	White Powder	Explosive limits:	Not applicable
Odor:	None	Vapor pressure:	Not applicable
Odor threshold:	Not applicable	Vapor density:	Not applicable
рН:	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. PHYSICAL AND CHEMICAL PROPERTIES

### **10. STABILITY AND REACTIVITY**

Reactivity: Will not polymerize.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: Reacts vigorously with reducing agents and combustible materials.

Conditions to Avoid: Avoid excessive heat.

**Incompatible materials:** Avoid reducing agents, flammable and combustible materials, cyanides, sulfides, ammonium salts.

Hazardous Decomposition Products: Thermal decomposition may produce nitrogen, sodium and carbon oxides.

### **11. TOXICOLOGICAL INFORMATION**

### Potential Health Effects:

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

Skin: May cause skin irritation.

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

<u>Inhalation</u>: 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.

<u>Carcinogenicity</u>: 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.

<u>Mutagenicity:</u> 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

**<u>Reproductive Toxicity Data</u>**: 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):

<u>Single Exposure</u>: 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.

<u>Repeated Exposure</u>: 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**

**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

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

**Bio-accumulative Potential:** Not expected to bio-accumulate.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

Results of PBT/vPvB Assessment: Not required

### **13. DISPOSAL CONSIDERATIONS**

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**

UN Number	ADR/RID:	IMDG: UN1500	IATA: UN1500	DOT: UN1500		
UIN-INUILIDEF	UN1500					
	ADR/RID: Sodium	Nitrite Mixture				
UN proper chipping nome	IMDG: Sodium Nitr	ite Mixture				
UN proper snipping name	IATA: Sodium Nitri	te Mixture				
	DOT: Sodium Nitrit	DOT: Sodium Nitrite Mixture				
Transport bagand alogg(ag)	ADR/RID: 5.1	IMDG: 5.1 (6.1)	IATA: 5.1 (6.1)	DOT: 5.1 (6.1)		
Transport nazaru class(es)	(6.1)					
Packaging group	ADR/RID: III	IMDG: III	IATA: III	DOT: III		
r uchuging group						
Environmental heronda	ADR/RID: Yes	IMDG: Marine	IATA: Yes	DOT: Yes in		
Environmental hazarus		pollutant: Yes		packages >RQ		
Special precautions for user:	Not applicable					
Special precadions for user.	rot applicable					

**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.

### **15. REGULATORY INFORMATION**

#### **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.

**OSHA Hazard Classification:** Irritant, Toxic, Target Organ Effects

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.

Date of SDS Preparation/Revision: 21 November 2011

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

~Verified on 2012-7by Henry Schein to be the most current version of the MSDS. To be verified again on 2015-7. ~