


# Safety Data Sheet

Section 1. Identification	
<b>Product Identification and Item Numbers:</b>	Anti-Rust Powder (RUST)
<b>Product Description:</b>	Anti-Rust Powder
<b>Recommended use and restrictions on use:</b>	N/A
<b>Supplier:</b>	Delasco 608 13 <sup>th</sup> Avenue Council Bluffs, IA 51501 1-712-323-3269 <a href="http://www.delasco.com">www.delasco.com</a> <a href="mailto:questions@delasco.com">questions@delasco.com</a>
<b>In Case of Emergency, Contact:</b>	Chemtrec (24 hour) 1-800-424-9300

Section 2. Hazard(s) Identification	
<b>Classification:</b>	
Oxidizing Solid (Category 2) Acute Toxicity (Category 3) Eye Irritant (Category 2A) Aquatic Acute (Category 1)	
<b>Labeling:</b>	
<b>Hazard symbol(s):</b>	 <p style="text-align: center;"> <span style="margin-right: 20px;">GHS09: environment – aquatic toxicity</span> <span style="margin-right: 20px;">GHS03: flammable - oxidizer</span> <span style="margin-right: 20px;">GHS07: irritant</span> <span style="margin-right: 20px;">GHS08: health hazard</span> <span>GHS06: acute toxicity</span> </p>
<b>Signal word:    <b>Danger!</b></b>	
<b>Hazard statements:</b>	
H272: May intensify fire; oxidiser. H301: Toxic if swallowed. H319: Causes serious eye irritation. H400: Very toxic to aquatic life.	
<b>Precautionary statements:</b>	
P210 Keep away from heat. P220 Keep/Store away from clothing/ combustible materials. P221 Take any precaution to avoid mixing with combustibles. P264 Wash skin 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/ face protection. P281 Use personal protective equipment as required. P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. 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. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.	

Section 3. Composition/Information on Ingredients		
<b>Chemical Name and Concentration:</b>	Sodium carbonate, monohydrate, NF.	69.88%
	Sodium nitrite, USP	30.12%
<b>Other Names, Common Names, Synonyms:</b>	N/A	
<b>CAS Number, other unique identifiers:</b>	Mixture: Sodium carbonate, monohydrate, NF	CAS# 5968-11-6
	Sodium nitrite, USP	CAS# 7632-00-0
<b>Other classified impurities or stabilizers:</b>	N/A	
<b>Other ingredients posing health hazards:</b>	N/A	
<b>Concentration of other hazardous ingredients:</b>	N/A	

Section 4. First-aid Measures	
<b>Inhalation exposure:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. For serious inhalation, evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. <b>WARNING:</b> It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
<b>Skin exposure:</b>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. For serious skin contact, wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
<b>Eye contact:</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
<b>Ingestion:</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing, such as a collar, tie, belt or waistband. Get medical attention immediately.

Section 5. Fire Fighting Measures	
<b>Suitable / unsuitable extinguishing media:</b>	Not applicable.
<b>Specific hazards / combustion products:</b>	Non-flammable. Slightly explosive in presence of shocks, of heat. (sodium nitrite) When in contact with organic matter, it will ignite by friction. May ignite combustibles. Explodes when heated over 1000 F (538 C). Sodium Nitrite + thiocyanate explodes on heating. A mixture of sodium nitrite and various cyanides explodes on contact. Mixture of sodium nitrite and phthalic acid or anhydride explode violently on heating. Fusion of urea with sodium nitrite must be carried out exactly as described to avoid risk of explosion. Interaction of nitrites when heated with metal amidosulfates (sulfamates) may become explosively violent owing to liberation of nitrogen and steam mixed with ammonium sulfamate form. Violent explosion occurs if an ammonium salt is melted with nitrite salt. Shock may explode nitrites. (sodium nitrite)
<b>Special protective equipment and precautions for fire-fighters:</b>	Use recommended personal protective equipment.
<b>NFPA Hazard Classification</b>	Health – 3 Flammability – 0 Instability – 1
	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe

<b>Section 6. Accidental Release Measures</b>	
<b>Personal precautions and protective equipment:</b>	<ul style="list-style-type: none"> <li>Do not touch spilled material. Use appropriate tools to collect material and dispose of in waste disposal container.</li> </ul>
<b>Environmental Precautions:</b>	<ul style="list-style-type: none"> <li>Prevent leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.</li> <li>Stop leak if you can do it without risk.</li> <li>Prevent entry into drains, waterways, sewers.</li> </ul>
<b>Containment / clean up methods:</b>	Small spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

<b>Section 7. Handling and Storage</b>	
<b>Precautions for safe handling:</b>	Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Keep container dry. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, metals, acids.
<b>Conditions for safe storage:</b>	Oxidizer. Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalis, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers. Air Sensitive. Oxygen Sensitive. Hygroscopic.
<b>Incompatibilities to avoid:</b>	Reducing agents, combustible materials, organic materials, metals, acids. Avoid excess heat, dust generation, ignition sources, exposure to air, combustible materials, exposure to moist air or water. Highly reactive with combustible materials, organic materials. Reactive with reducing agents, metals, acids. Incompatible with aluminum and fluorine.

<b>Section 8. Exposure Controls and Personal Protection</b>	
<b>OSHA Permissible Exposure Limit (PEL):</b>	Not available.
<b>Threshold Limit Value (TLV):</b>	Not available.
<b>Other exposure limits:</b>	Contains no substances with occupational exposure limits.
<b>Engineering controls:</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal protective equipment:</b>	<p><b>Respiratory Protection</b> Dust respirator. Be sure to use an approved/certified respirator or equivalent.</p> <p><b>Eye Protection</b> Safety glasses or Splash goggles.</p> <p><b>Skin Protection</b> Lab coat or synthetic coat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Gloves (impervious). Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.</p>
<b>Other personal protection measures:</b>	Provide nearby eyewash station and safety shower.

<b>Section 9. Physical and Chemical Properties</b>	
<b>Appearance (physical state, color, etc.):</b>	Granular or powdered solid. White to slightly yellowish.
<b>Odor:</b>	Odorless.
<b>Odor threshold:</b>	Data not available
<b>pH:</b>	Alkaline
<b>Melting point / freezing point:</b>	Data not available



<b>Initial boiling point and boiling range:</b>	Data not available for this mixture.
<b>Flash point:</b>	Data not available for this mixture.
<b>Evaporation rate:</b>	Data not available for this mixture.
<b>Flammability</b>	Data not available for this mixture.
<b>Upper / lower flammability or explosive limits:</b>	Data not available for this mixture.
<b>Vapor Pressure:</b>	Data not available for this mixture.
<b>Vapor density:</b>	Data not available for this mixture.
<b>Relative density:</b>	Data not available for this mixture.
<b>Solubility:</b>	Data not available for this mixture.
<b>Partition coefficient: n-octanol/water:</b>	Data not available for this mixture.
<b>Auto-ignition temperature:</b>	Data not available for this mixture.
<b>Decomposition temperature:</b>	Data not available for this mixture.
<b>Viscosity:</b>	Data not available for this mixture.

<b>Section 10. Stability and Reactivity</b>	
<b>Chemical stability:</b>	The product is stable.
<b>Possibility of hazardous reactions:</b>	Highly reactive with combustible materials, organic materials. Reactive with reducing agents, metals, acids.
<b>Conditions to avoid (static, shock, vibration...)</b>	Excess heat, dust generation, ignition sources, exposure to air, combustible materials, incompatible materials, exposure to moist air or water.
<b>Incompatible materials:</b>	Highly reactive with combustible materials, organic materials. Reactive with reducing agents, metals, acids. Incompatible with aluminum and fluorine.
<b>Hazardous decomposition products:</b>	Not available.

<b>Section 11. Toxicological Information</b>	
<b>Routes of exposure:</b>	Absorbed through skin, inhalation, ingestion.
<b>Acute Symptoms (acute):</b>	Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant). Corrosive to eyes and skin. The amount of tissue damage depends on length of contact. Prolonged exposure may result in skin burns and ulcerations. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Severe over-exposure can produce lung damage, choking, unconsciousness or death.
<b>Symptoms (chronic): Chronic effects from short and long term exposure:</b>	MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. (Sodium Nitrite) TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.  The substance may be toxic to blood, cardiovascular system, smooth muscle. Repeated or prolonged exposure to the substance can produce target organ damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.  May cause damage to the following organs: upper respiratory tract, skin, eyes.
<b>Numerical measures of toxicity (e.g., acute toxicity estimates): (NIOSH)</b>	<b>Sodium carbonate monohydrate:</b> DUST (LC50): Acute: 468 mg/m <sup>3</sup> 4 hours [Guinea pig].  <b>Sodium nitrite:</b> ORAL (LD50): Acute: 180 mg/kg [Rat]. 175 mg/kg [Mouse]. Acute toxicity of the dust (LC50): 5.5 4 hours [Rat].
<b>NTP carcinogen:</b>	Not available
<b>EPA carcinogen:</b>	Not available
<b>ACGIH carcinogen:</b>	Not available
<b>IARC potential carcinogen:</b>	Classified 2A (Probable for human) by IARC (listed as nitrites)
<b>OSHA carcinogen:</b>	Not available

**Section 12. Ecological Information (Non-mandatory)**

<b>Ecotoxicity (aquatic and terrestrial, where available):</b>	<u>Sodium Nitrite:</u> Ecotoxicity in water (LC50): 0.092-1 mg/l 96 hours [Fish (Oncorhynchus mykiss)]. 2.3 mg/l 96 hours [Fish (Pimephales promelas)]. 20 mg/l 96 hours [Fish (Pimephales promelas)]. 0.19 mg/l 96 hours [Fish (Oncorhynchus mykiss)].
<b>Persistence and degradability:</b>	Not available
<b>Bioaccumulative potential:</b>	Not available
<b>Mobility in soil:</b>	Not available
<b>Other adverse effects:</b>	Not available

**Section 13. Disposal Considerations (Non-mandatory)**

<b>Safe methods of disposal:</b>	Dispose of in accordance with federal, state and local environmental control regulations.
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**Section 14. Transport Information (Non-mandatory)**

<b>US DOT</b>	<b>UN number:</b>	UN1500	<b>Class:</b>	5.1	<b>Packing Group:</b>	III
<b>UN proper shipping name:</b>			Sodium Nitrite			
<b>Packing group, if applicable:</b>			III			
<b>Environmental hazards (marine pollutant, etc...)</b>			Not available			
<b>Special transport precautions:</b>			N/A			

**Section 15. Regulatory Information (Non-mandatory)**

<b>Specific safety, health, and environmental regulations:</b>	N/A
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**Section 16. Other information**

<b>Date of preparation or last revision:</b>	September 21, 2018
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