MATERIAL SAFETY DATA SHEET

Product Name : 834 ***Date Issued : January 17, 2012***

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: 834 **Chemical Synonym / C# :** c834
Formula : Multi-component mixture **Chemical Family:** Corrosion Inhibitor

Supplier : Specialty Chemicals Inc. 208 Widgedon Landing Hilton, NY 14468
Information Telephone : (585)752-2320 **Emergency Telephone :** (607)529-3218

SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS

			ACGIH TLV (mg/m3)	
Hazardous Ingredient(s)	**CAS #**	**% (w/w)**	**TWA**	**STEL**
Sodium Nitrite	7632-00-0	< 20.0	-	-
EDTA - Na4	64-02-8	> 1.0	-	-
Sodium Hydroxide	1310-73-2	> 1.0	-	2 (ceiling)

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

SECTION 3 : HAZARD IDENTIFICATION

Emergency Overview : Toxic if swallowed or dust is inhaled. **Sodium Nitrite** in dry form is an Oxidizer: May ignite organic materials and react with other materials. Can decompose if mixed with acids or exposed to fire conditions, releasing toxic nitrogen oxides. Read the entire MSDS for a more thorough evaluation of the hazards.

Potential Health Hazards :

Skin Contact: Prolonged contact with dust may cause irritation.

Eye Contact: May cause temporary irritation.

Inhalation: Dust may irritate nose and throat. Dusts are soluble and inhalation may result in toxic effects similar to ingestion.

Ingestion: May irritate mouth, esophagus and stomach. Although small quantities of sodium nitrite are used in food preparation, swallowing moderate amounts can result in serious toxic effects including death. Effects include nausea, weakness, cyanosis (blue skin), collapse and coma, possibly leading to death. Sodium nitrite interferes with the bloods ability to transport oxygen.

Delayed Effects : Sodium nitrite has no known delayed effects. (If sodium nitrite is used with amines found in certain fluids, potentially carcinogenic nitrosamine compounds may be formed.)

SECTION 4 : FIRST AID MEASURES

Skin Contact: Wash with plenty of soap and water to remove all product residues. Remove contaminated clothing and wash before reuse.

Eye Contact: Immediately flush with running water continuing for 15 minutes. If irritation persists, consult a physician.

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration, preferably mouth to mouth. If breathing is difficult, oxygen should be administered, provided a qualified operator is present. Get immediate medical assistance for any symptom.

Ingestion: If conscious, give victim 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Continue until vomited fluid is clear. Get immediate medical assistance.

Advise to physician : Sodium nitrite forms methemoglobin in the blood stream. Treat accordingly.

SECTION 5 : FIRE FIGHTING MEASURES

Flash Point : None **Method Used:** N/A **Flammable Limits: LEL =** N/A **UEL =** N/A
Extinguishing Media: Use flooding amounts of water or other agents. DO NOT use dry chemicals containing ammonium phosphate.
Fire Fighting Procedures: Wear self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Material does not burn, but it is an oxidizing agent and will support combustion of other materials. Product decomposes above 608°F releasing toxic nitrogen oxides.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: (See section 8 for recommended personal protection equipment.) Sweep or shovel spilled material into containers in a manner that does not disperse dust into the air. Use non-sparking tools and equipment.. Close container and label them. Do not allow product or residues to enter waterways and/or any source of drinking water. See section 15 regarding reporting requirements for spills and releases.
Small Spill: Sweep up material for disposal or recovery.
Large Spill: Shovel material into containers. Thoroughly sweep area of spill to clean up any residual material.
Deactivating Chemicals: Reduce airborne dust and prevent scattering by moistening with water.

SECTION 7 : HANDLING AND STORAGE

Handling: (See section 8 for recommended personal protective equipment.) Avoid contact with skin and eyes. Do not breathe product dusts. Avoid contact with combustible materials and acids.
Storage Requirements: Store in a cool dry place. Keep container closed. Do not store on wooden floors. Isolate from combustible materials.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Not required for properly ventilated areas.
Ventilation / Local Exhaust : Use local exhaust ventilation in any areas where product dusts may be generated. (Note incompatibilities in section 10.)
Ventilation / Mechanical Recommendations: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).
Skin Protection: Use impervious gloves (example rubber) for routine handling. Wear long sleeved shirt and pants. Impervious work aprons may be required for transfer of material from packages to process equipment.
Eye Protection: Wear safety goggles in any area where dusty conditions may occur.
Other Protective Equipment: Provide eyewash and washing facilities.
Exposure Guidelines: See section 2 for ACGIH recommendations for each hazardous ingredient.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor: Clear amber liquid, odor nil..
Water Solubility: Complete **pH (1%):** 10.0
Specific Gravity: 1.16 **Boiling Point (°F):** 212+ **Evaporation Rate(water=1):**N/A
% volatile: N/A **Vapor Density(air=1):** N/A **Vapor Pressure(mmHg):** N/A

SECTION 10 : STABILITY AND REACTIVITY

Hazardous Decomposition Products: Oxides of nitrogen (toxic and irritating).
Chemical Stability: Normally stable.
Conditions to Avoid: Excessive heat, flame, ignition sources, shock, friction, incompatibles.
Incompatibility with other Substances: Hazardous reactions can occur with acids, ammonium compounds, reducing agents (particularly cyanides, thiocyanates and thiosulfates). May ignite organic compounds and other combustible materials.
Hazardous Polymerization: Will not occur.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicological Data (for sodium nitrite):

LD50 (oral, rat) = 180 mg/kg
LD50 (oral, rabbit) = 186 mg/kg
POTENTIAL HEALTH EFFECTS: Acute: Eye irritation, rabbit, 500mg/24 hr; mild.
Chronic: Multiple reproductive tests indicate that sodium nitrite is not teratogenic. Fetal toxicity has been demonstrated in pregnant animals fed toxic doses of sodium nitrite. This is due to the formation of methemoglobin.

Toxicological Data (as Na4 Ethylenediaminetetraacetate):

skin absorption (rabbit) LD50 = > 5000 mg/kg.
ingestion : oral (male rats) LD50 = 3030 mg/kg

Toxicological Data (as Sodium Hydroxide) : Acute dermal LD50 1.35g/kg(rabbit).

Carcinogenicity: This product does not contain any materials considered to be carcinogenous according to OSHA, NTP, IARC, or ACGIH.

SECTION 12 : ECOLOGICAL INFORMATION

Exotoxicological Information (for sodium nitrite):

17.1 ppm/24hr./minnow/no effect/fresh water.
7.5 ppm/48hr./mosquito fish/TLm/fresh water.
Environmental Effects: No information found.
Persistence and Degradation: No information found.

Exotoxicological Information (for Sodium Hydroxide): Can cause damage to vegetation. Toxicity is primarily associated with pH. Toxic to aquatic life.
Environmental Effects: Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.
Persistence and Degradation: Degrades readily by reacting with natural carbon dioxide in the air. Does not bioaccumulate.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with all applicable local, state, and federal regulations.
Is the unused product a RCRA hazardous waste if discarded? Yes (as Sodium Nitrite).
If yes, the RCRA ID (as Sodium Nitrite) **number is :** D001 (ignitable)

SECTION 14 : TRANSPORTATION INFORMATION

Transportation Emergency Telephone Number: 3E 24 hour number : (866)302-6855*
*Please refer to c# referenced in section 1 of this msds.

DOT Proper Shipping Name: Toxic Liquid, Inorganic, NOS (Sodium Nitrite)
DOT Hazard Class / Product Identification Number / Packing Group / DOT Label:
6.1 / UN3287 / PGIII / Toxic

SECTION 15 : REGULATORY INFORMATION

US FEDERAL REGULATIONS :

TOXIC SUBSTANCES CONTROL ACT (TSCA)
TSCA INVENTORY STATUS : Sodium Nitrite listed on TSCA Inventory of Chemical Substances
OTHER TSCA ISSUES : Sodium Nitrite requires export notification (Section 12b) and is subject to SNUR if used in metalworking fluids (40CFR721.4740).

CERCLA RQ - 40 CFR 302.4(a) :

Component	RQ (lbs)
Sodium Nitrite	100
SODIUM HYDROXIDE	1000

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (800) 424-8802 and to your Local Emergency Planning Committee.

SARA 302 Components - 40 CFR 355 Appendix A

Section 302 Component(s)	TPQ (lbs)	RQ (lbs)
none		

SECTION 311 HAZARD CLASS :
Immediate (as Sodium Nitrite)
Immediate, delayed health hazard (as Na4 Ethylenediaminetetraacetate)
Immediate, Reactive (as Sodium Hydroxide)

SARA 313 TOXIC CHEMICALS : The following ingredients are SARA 313 “Toxic Chemicals” and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

INGREDIENT NAME	COMMENT
Sodium nitrite	none

INTERNATIONAL REGULATIONS :

WHMIS CLASSIFICATION (CANADA) :
(as Sodium nitrite) : C, D1B, D2B
(as Sodium Hydroxide) : D1B, E

FOREIGN CHEMICAL CONTROL INVENTORY STATUS :
Sodium nitrite listed on Canadian DSL and EU’s EINECS (EINECS # : 231-555-9)

Other Regulations / Legislation which apply to this product: None known

STATE REGULATIONS :

STATE RIGHT-TO-KNOW : In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

(as Sodium Hydroxide) Florida, New Jersey Special Heath Hazard Substance List, Minnesota Hazardous Substance, California Director's List of Hazardous Substances, Pennsylvania Right-to-Know Special, Rhode Island Hazardous Substance List, Massachusetts Right-to-Know, Pennsylvania Right-to-Know, New Jersey Right-to-Know, CERCLA.

SECTION 16 : OTHER INFORMATION

NFPA Rating : HEALTH: 2 **FLAMMABILITY:** 0 **REACTIVITY:** 1

NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

Information and data compiled to compose this MSDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.