

CHEMICAL EQUIPMENT LABS, INC  
Compound 400 N  
Safety Data Sheet (SDS)

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**PRODUCT IDENTIFIER**

Product name: Compound 400 N  
Product form: Mixture

**Relevant identified uses of the substance or mixture and uses advised against**  
Use of the substance/corrosion protection

**Details of the supplier of the safety data sheet**

**Name/Address:** Chemical Equipment Labs, INC  
1330 E 12TH SREET  
WILMINGTON, DE 19802  
**Contact Information:** Telephone: 610-497-9390  
Fax: 610-497-9524  
Email: ERM@CHEMICAL EQUIPMENT LABS.COM  
Website: WWW.CHEMICAL EQUIPMENT LABS.COM

**EMERGENCY TELEPHONE NUMBER**

CHEMTREC (800) 424-9300

**Section 2: HAZARD(S) IDENTIFICATION**

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids : Category 3  
Acute oral toxicity : Category 3  
Serious eye damage/eye irritation : Category 2  
Specific target organ toxicity – (repeated exposure) : Category 2  
Target organs – Kidney, Liver, Blood, Cardiovascular system.

**Label Elements**

Signal Word : Danger

**Hazard Statements**

May intensify fire: oxidizer

Toxic if swallowed  
Causes serious eye irritation  
May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements (Prevention):**

Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear eye/face protection  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well ventilated area  
Keep away from heat/sparks/open flames/hot surfaces. – No smoking  
Keep/store away from clothing/other combustible materials  
Take any precaution to avoid mixing with combustibles

**Precautionary Statements (Response):**

IF exposed or concerned : Get medical attention/advice  
IF Inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing  
IF in eyes : Rinse cautiously with water for several minutes. Remove contact lenses, if presented and easy to do. Continue rinsing if eyes irritation persist get medical attention/ advice.  
If swallowed : Immediately call a POISON CENTER or doctor/physician  
Fire : In case of a fire use CO2, dry chemical, or foam for extinction  
Storage : Store locked up. Store in a well ventilated place. Keep container tightly closed  
Disposal : Dispose of contents/container to an approved waste disposal plant  
Hazards not otherwise classified (HNOC): Very toxic to aquatic life

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**Mixture**

NAME	PRODUCT IDENTIFIER	%
Sodium nitrite	(CAS No) 7632-00-0	Proprietary
Water	(CAS No) 7732-18-5	Proprietary

## Section 4: FIRST-AID MEASURES

### Description of first aid measures

General advice	: In all instances, seek immediate medical attention.
First aid measures after inhalation	: Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.
First- aid measures after skin contact	: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
First-aid measures after eye contact	: Rinse immediately with plenty of water, also under the eye lids, for at least 15 minutes. Obtain medical attention.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms/effects	: No information available.
Notes to physician	: Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

### Extinguishing media

Unsuitable extinguishing media	: No information available.
Auto ignition temperature explosion limits	
Upper	: No data available.
Lower	: No data available.
Oxidizing properties	: Oxidizer.
Sensitivity to mechanical impact	: No information available.
Sensitivity to static discharge	: No information available.
Special hazards arising from the substance Or mixture	: Oxidizer. Contact with combustible/organic material may cause fire. May ignite combustible (wood paper, oil, clothing, etc.) Do not allow run-off from firefighting to enter drains or water courses.
Hazardous combustion products	: Nitrogen oxides (NOx) Sodium oxides.
Special protective actions for firefighters	: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protect gear.

Thermal decomposition can lead to release of irritating gases and vapors.

#### **NFPA**

Health : 3  
Flammability : 0  
Instability : 2  
Physical hazards : OX

### **Section 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak.

Environmental precautions : Do not flush into surface water or sanitary sewer systems. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up : Keep combustibles (wood, paper, oil, etc.) away from spilled material. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

### **Section 7: HANDLING AND STORAGE**

#### **Handling**

Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Keep away from clothing and other combustible materials. Wash hands before breaks and immediately after handling the product.

#### **Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Store under and inert atmosphere.

### **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Exposure guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas. Ensure that eye wash stations and safety showers are close to the workstation location.

### Personal protective equipment

Maintain eye wash fountain and quick-drench facilities in work area. Final choice of appropriate protection will vary according to methods of handling, engineering controls and risk assessments undertaken.

Respiratory protection : Respiratory equipment with combination filter.  
Eye/face protection : Safety glasses with side shields, goggles or full-face shield.  
Skin and body protection : appropriate protective clothing to protect against possible skin contact.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid  
Appearance : Light yellow  
Odor : No information available  
Odor threshold : No information available  
pH value : 8-9 (10 g/l aq.sol)  
Melting point : 271 ° C / 519.8 ° F  
Boiling Point : 320 ° C / 608 ° F  
Flash point : not applicable.  
Evaporation rate : not available.  
Flammability : not applicable.  
Flammability/ explosion limit : not applicable.  
Vapor pressure : No information available  
Vapor density : no data available.  
Relative density : No information available  
Solubility : 820 g/l (20 ° C)  
Partition coefficient:  
n-octanol/water : No information available  
Auto ignition temperature : 510 ° C / 950 ° F  
Decomposition temperature : > 320 ° C  
Viscosity : Not applicable  
Molecular Formula : N Na O2  
Molecular Weight : 69

## Section 10: STABILITY AND REACTIVITY

Reactivity : Yes  
Stability : Oxidizer: Contact with combustible/organic material may cause fire.

Conditions to avoid : Incompatible products. Excess heat. Combustible material. Avoid dust formation. Exposure to moist air or water.

Incompatible materials : Acids, amines, reducing agents, oxidizing agents, combustible material, strong reducing agents.

Hazardous decomposition products : Nitrogen oxides (NOx), Sodium oxides.

Hazardous Polymerization : Hazardous polymerization does not occur.

Hazardous Reactions : None under normal processing.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium nitrite	85 mg/kg (Rat)	Not listed	5.5 mg/L (Rat) 4 H

**Toxicologically Synergistic Products** : No information available.

Delayed and immediate effects as well as chronic effects from short and long term exposure.

Irritation : Irritating to eyes

Sensitization : No information available

Carcinogenicity : The table below indicates whether each agency has listed any ingredients as a carcinogen.

Skin contact : May cause serious chemical burns to the skin. It can penetrate to deeper layers of the skin and corrosion will continue until removed. The severity of injury depends on the concentration and the duration of exposure.

Component	CAS- No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium nitrite	7632-00-0	Not listed	Not Listed	Not Listed	Not Listed	Not Listed

**IARC: (International Agency for research on Cancer)**

Group1 – Carcinogenic to Humans

Group 2A – Probably Carcinogenic to Humans

Group 2B – Probably Carcinogenic to Humans

Mutagenic Effects : No information available

Reproductive Effects : No information available

Developmental Effects : No information available

Teratogenicity : No information available

STOT – single exposure : None known

STOT – repeated exposure : Kidney Liver Blood Cardiovascular system

Prepared According to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

By Chemical Equipment Labs, INC

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Aspiration hazard : No information available  
 Symptoms /effects both acute and Delayed : No information available  
 Endocrine Disruptor information : No information available  
 Other adverse effects : The toxicological properties have not been fully investigated.

**Section 12: ECOLOGICAL INFORMATION**

**Eco toxicity**

Very toxic to aquatic organism. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium nitrite	-	Oncorhynchus mykiss: LC50 + 0.09-0.13 mg/L 96H	-	12.5 – 100 mg/L 48H

Persistence and Degradability : Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/Accumulation : No information available

Mobility : Will likely be mobile in the environment due to its water solubility.

Component	Log Pow
Sodium nitrite	-3.7

**Section 13: DISPOSAL CONSIDERATIONS**

Waste disposal methods : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classifications

**Section 14: TRANSPORT INFORMATION**

**DOT**

Proper shipping name : Sodium Nitrite  
 Hazard class : 5.1  
 Subsidiary hazard class : 6.1  
 Identification number : UN1500  
 Packing group : III

**TDG**

Proper shipping name : Sodium Nitrite  
 Hazard class : 5.1  
 Subsidiary hazard class : 6.1  
 Identification number : UN1500  
 Packing group : III

**IATA**

Proper shipping name : Sodium Nitrite  
 Hazard class : 5.1  
 Subsidiary hazard class : 6.1  
 Identification number : UN1500  
 Packing group : III

**IMDG/IMO**

Proper shipping name : Sodium Nitrite  
 Hazard class : 5.1  
 Subsidiary hazard class : 6.1  
 Identification number : UN1500  
 Packing group : III

**Section 15: REGULATORY INFORMATION****International Inventories**

<b>Component</b>	<b>TS C A</b>	<b>D S L</b>	<b>N D SL</b>	<b>EIN EC S</b>	<b>ELI NC S</b>	<b>N L P</b>	<b>PI CC S</b>	<b>E N CS</b>	<b>AI C S</b>	<b>IE CS C</b>	<b>K E CL</b>
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Sodium nitrite	X	X	-	231-55-9	-		X	X	X	X	X
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**Legend:**

X – Listed

E – Indicates a substance that is the subject of a Section 5 (e) consent order under TSCA.

F – Indicates a substance that is the subject of a Section 5 (f) Rule under TSCA.

N – Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P – Indicates a commenced PMN substance.

R – Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S – Indicated a substance that is identified in a proposed or final Significant New Used Rule

T – Indicates a substance that is the subject of Section 4 test rule under TSCA

XU – Indicated a substance except from reporting under the Inventory Update, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports) 40 CFR 710(B).

Y1 – Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 – indicates an exempt polymer that is a polyester and is made only from reactants included in a specified listed of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

**U.S. Federal Regulations**

TSCA 12(b)

: Not applicable

Component	TSCA 12(b)
Sodium nitrite	Section 5

SARA 313

Component	CAS-No	Weight %	SARA 313 – Threshold Values %
Sodium nitrite	7632-00-0	>95	Section 5

Sara 311/312 Hazardous Categorization

Acute Health Hazard

: yes

Chronic Health Hazard : Yes  
 Fire Hazard : No  
 Sudden Release of Pressure Hazard : No  
 Reactive Hazard : Yes

**Clean Water Act**

Component	CWA – Hazardous Substances	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants
Sodium nitrite	X	100 lb	-	-

Clean Air Act : Not applicable

OSHA occupational Safety and Health Administration  
 Not applicable

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium nitrite	100 lb	-

California Proposition 65

This product does not contain any Proposition 65 chemicals

**State-Right to Know**

Component	Mass.	New Jersey	Penn.	Illinois	Rhode Island
Sodium Nitrite	X	X	X	X	-

**U.S. Department of Transportation**

Reportable quantity (RQ) : Y

DOT Marine Pollutant : N  
DOT Severe Marine Pollutant : N

### U.S. Department of Homeland Security

This product does not contain any DHS Chemicals.

### Other International Regulations

Mexico – Grade : No information available  
Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class : C oxidizing materials  
: D1B Toxic materials

### National Inventories

Australian Chemical Inventory (AICS) : Listed  
Canadian Chemical Inventory (DSL) : Listed  
China Chemical Inventory (IECS) : Listed  
European Union Inventory (EINECS) : 215-185-5  
Japan Chemical Inventory (ENCS) : 1-410; 2-1972  
Korean Chemical Inventory (KECL) : KE-31487  
New Zealand Chemical Inventory (NZIOC) : Listed  
Philippines- Priority Chemical List (PICCS) : Listed  
U.S. Inventory (TSCA) : Listed

### Section 16: OTHER INFORMATION

Indication of changes : Revision 2.0  
Revision date : September 15, 2016  
Other information : ERM

### NOTE TO EMPLOYER

This Safety Data Sheet contains environmental, health and toxicology information for your employees. Please ensure this information is provided to them. It also contains information to help you meet community right-to-

know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this SDS must be given to the buyer or the information incorporated in you SDS. Discard any previous edition of this SDS.

#### **DISCLAIMER**

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, Chemical Equipment Labs, LLC makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for the reliance thereon. Chemical Equipment Labs, LLC assumes no responsibility for any injury or loss resulting from the use of the product described herein. User should satisfy himself that he has all current data relevant to his particular use.

**End of Safety Data Sheet**