





# SAFETY DATA SHEET 30-0-0, 60% SRN

Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gasses. Heating causes release of ammonia vapors. Vapors are irritating to eyes, skin and respiratory tract. Heating to dryness may cause the Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Keep containers/storage vessels in fire area cooled with water spray.
Special protective equipment and precautions for firefighters	
Fire-fighting equipment/instructions	
Specific methods	Move container from fire area if it can be done without risk.
General fire hazards	Heating this product will evolve ammonia

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk.  Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further

## 7. Handling and storage

Precautions for safe handling	Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Wash hands
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide eyewash station.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear eye/face protection. Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
Other	Wear suitable protective clothing. Wash contaminated clothing prior to reuse.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after

## 9. Physical and chemical properties

Appearance	Clear, blue or colorless liquid
Physical state	Liquid.
Form	Liquid.
Color	Colorless liquid
Odor	Slight amine odor
Odor threshold	Not available.
pH	<b>9.2 - 10.2 (Typical)</b>
Salt-Out / Crystallization Temp	
Melting point/freezing point	0 °F (-17.8°C) (Typical)
Initial boiling point and boiling range	219°F (104.4°C)
Flash point	Not available.
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not determined
Vapor density	Not available.
Relative density	1.24(10.3 lbs/gal)
Solubility	Complete
Solubility (water)	100%



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Partition coefficient (n-octanol/water) Not available.  
Auto-ignition temperature Not available.  
Decomposition temperature Data not available  
Viscosity 67.5 Cp at 25°C (77°F)  
Other information  
Pounds per gallon 10.3 lbs/gal  
Shelf life > 2 years

## 10. Stability and reactivity

Reactivity Avoid interaction with heat (flames), oxidizers, acids or alkalis (see details below in this section).  
Chemical stability Material is stable under normal conditions.  
Possibility of hazardous reactions Strong oxidizers such as nitrates, nitrites or chlorates can cause explosive mixtures if heated to dryness  
Conditions to avoid Temperatures above 120°F (49°C) and below 60°F (15°C).  
Incompatible materials Strong oxidizers. Acids will cause the release of sulfur dioxide, a severe respiratory irritant. This product is not compatible with copper, zinc or their alloys including brass, bronze or galvanized materials. These materials should not be utilized in handling systems or storage containers for this product.  
Hazardous decomposition products Heating this product will evolve ammonia, Heating to dryness will produce ammonia, and oxides of carbon. Ammonia (16-25%) may form flammable mixtures with air.

## 11. Toxicological information

Information on likely routes of exposure  
Oral Oral-Rat LD<sub>50</sub>: > 2,500 mg/kg.  
Inhalation Data not available.  
Skin contact Data not available.  
Eye contact Data not available.  
Chronic/Carcinogenicity: No evidence available  
Teratology: Data not available.  
Reproduction: Data not available.  
Mutagenicity: Data not available.

## 12. Ecological information

Ecotoxicity Data not available.  
Persistence and degradability Data not available.  
Bioaccumulative potential This product is not bioaccumulative.  
Mobility in soil Data not available.  
Other adverse effects Data not available.

## 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds,  
Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.  
Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).  
Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may

## 14. Transport information

DOT Not regulated as dangerous goods.  
IATA Not regulated as dangerous goods.  
IMDG Not regulated as dangerous goods.

## 15. Regulatory information

US federal regulations This product meets the criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.  
CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.  
SARA 304 Emergency release notification Not regulated.  
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.  
Superfund Amendments and Reauthorization Act of 1986 (SARA)  
Hazard categories Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No  
SARA 302 Extremely hazardous substance Not listed.



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Section 313 (FORM R):	Not applicable
Other federal regulations	
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Safe Drinking Water Act (SDWA)	Not regulated.
US. California Proposition 65	WARNING: This product contains a chemical known to the State of California to cause birth defects or other

### 16. Other information, including date of preparation or last revision

Issue date	6/1/2015
Revision date	7/15/2013
Version #	2
Disclaimer	While the information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder are given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

Revision Information	Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties
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