# SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

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### Section 1 Chemical Product and Company Information

# HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

# CHEMTREC 24 Hour Emergency

Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

### Product SODIUM CARBONATE, ANHYDROUS

# Synonyms Soda Ash Section 2 Hazards Identification

Signal word: WARNING

Pictograms: GHS07 Target organs: None known.



GHS Classification: Eye irrit. (Category 2A) GHS Label information: Hazard statement: H319: Causes serious eye irritation. Precautionary statement:

P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Sodium carbonate		497-19-8	100%	207-838-8		
Section 4	First Aid Measures					

**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

### Section 5 Fire Fighting Measures

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Sodium carbonate reacts with hydrated lime to form caustic soda. Special care should be taken where lime and sodium carbonate are handled in the same area.

### Section 6 Accidental Release Measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

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### Handling & Storage

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. Keep out of reach of children. Use with adequate ventilation. Wash thoroughly after handling.

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.

#### Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Section 8 **Exposure Controls / Personal Protection Chemical Name** ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: Sodium carbonate None established. None established None established Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low. Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator. **Physical & Chemical Properties** Section 9 Appearance: Solid, white powder. Evaporation rate ( = 1): Data not available Partition coefficient: Data not available Odor: No odor. Flammability (solid/gas): Data not available. Auto-ignition temperature: Data not available Odor threshold: Data not available. Explosion limits: Lower / Upper: Not flammable Decomposition temperature: 1000°C (1832°F) pH: Data not available Vapor pressure (mm Hg): Data not available Viscosity: Data not available. Molecular formula: Na<sub>2</sub>CO<sub>3</sub> Melting / Freezing point: 864°C (1587°F) Vapor density (Air = 1): Data not available Relative density (Specific gravity): 2.533 Boiling point: Decomposes Molecular weight: 105.99 Flash point: Not flammable Solubility(ies): 17% @ 20°C in water Section 10 Stability & Reactivity Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures. Hygroscopic material, avoid moisture. Incompatibilities with other materials: Acids cause decompostion liberating gaseous carbon dioxide. When mixed with lime dust and water, corrosive and caustic soda may be produced Hazardous decomposition products: Carbon dioxide. Section 11 **Toxicological Information** Acute toxicity: Oral-rat LD50: 4090 mg/kg; Inhalation-rat LC50: 2.3 mg/l/2 hours; Dermal-rat LD50: 2210 mg/kg Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available STOT-single exposure: Data not available. STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed. Skin: May be harmful if absorbed through skin. Causes skin irritation. Eyes: Causes eye irritation. Signs and symptoms of exposure: Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting. Additional information: RTECS #: VZ4050000 Section 12 **Ecological Information** Toxicity to fish: LC50 - Lepomis macrochirus (Bluegill) - 300 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 265 mg/l - 48 h Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Section 13 **Disposal Considerations** These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport Information UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No 2012 ERG Guide # Not applicable **Exceptions:** Not applicable Section 15 **Regulatory Information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. DSL NDSL WHMIS Classification RCRA code Component TSCA CERLCA (RQ) Sodium carbonate Listed Not listed Not listed Not listed Not listed D2B Section 16 **Additional Information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure.

# SAFETY DATA SHEET

Section 1	Chemical Product and Company	<pre>/ Identification</pre>
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HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

# Page E1 of E2

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

**HYDROGEN PEROXIDE, 6%** Product Synonyms Hydrogen Dioxide Section 2 Hazards Identification Signal word: WARNING Precautionary statement: Pictograms: GHS07 P264: Wash hands thoroughly after handling. Target organs: Respiratory and gastrointestinal systems, skin, eyes P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. GHS Classification: P337+P313: If eye irritation persists: Get medical attention Acute toxicity (Category 4) P501: Dispose of contents/container to a licensed chemical disposal agency in Eye irritation (Category 2A) accordance with local/regional/national regulations. GHS Label information. Hazard statement: Supplementary information: H302: Harmful if swallowed. Do not tamper with venting mechanism. H319: Causes serious eye irritation.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 3	Composition / Information on Ingredients						
Chemical Name		CAS #	%	EINECS			
Water Hydrogen peroxide Acetanilide		7732-18-5 7722-84-1 103-84-4	<94% 6% 0.05%	231-791-2 231-765-0 203-150-7			
Section 4	First Aid Measures						

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES IRRITATION AND / OR BURNS TO EYES. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES IRRITATION AND / OR BURNS TO THE SKIN. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

### Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Water only! Apply vast amounts for cooling and dilution.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This product is a strong oxidizer which may release oxygen and promote the combustion of flammable materials. Spontaneous combustion can occur if allowed to remain in contact with oxidizable materials. Drying of product on clothing or combustible material may cause fire.

# Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7	Handling & Storage
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Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources. Do not allow temperature of storage to rise above 100°F.

Section 8	Exposure Controls / Personal Protection							
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)				
	Hydrogen peroxide	TWA: 1 ppm ; 1.4 mg/m <sup>3</sup> (A3)	TWA: 1 ppm ; 1.4 mg/m <sup>3</sup>	TWA: 1 ppm ; 1.4 mg/m <sup>3</sup>				

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator	<b>tion:</b> None should be neede	ed in normal laboratory	nandling at room te	mperatures. If misty	conditions prev	vall, work in turne	nood of wear a N	IOSH/INISHA-
Section 9	Physical & Chemical I	Properties						
Odor: Slightly pung Odor threshold: D pH: Data not availa Melting / Freezing poin Boiling point: Appro	g / Freezing point:       Approximately 0°C (32°F) (water)         ng point:       Approximately 100°C (212°F) (water)         Relative density (Specific gravity):       Approximately 1.0 (water)         Nolecular formula:       Molecular weight:         Molecular weight:       Molecular weight:         Molecular weight:       Mixture         Molecular weight:       Mixture							
Section 10	0 Stability & Reactivity							
combustion. Incompatible mate	<ul><li>d: Excessive temperatures,</li><li>rials: Acids, bases, metals,</li></ul>	heat, sparks, open flan metal salts, reducing a	gents, organic mate	s of ignition. Contact rials, alkalies,dust an				
•	oosition products: Oxyger	· •	e compustion of han	imable material.				
Section 11	Toxicological Informat	lion						
Serious eye damage Respiratory or skin Germ cell mutager Carcinogenity: Da NTP: No componen IARC classified: Gro OSHA: No compone Reproductive toxic STOT-single expos STOT-repeated expos STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: Expected Skin: Expected to of Signs and sympton of the skin, asthma Additional informatic	t of this product present at le bup 3: Not classifiable as to i ent of this product present at city: Data not available sure: The substance or mix <b>bosure</b> : Data not available Data not available <b>fects:</b> d to be irritating to respirator d to cause burns to the gastr cause irritation and/or burns. cause irritation and/or burns <b>ms of exposure</b> : See Potte and respiratory diseases. <b>tion: RTECS #:</b> MX09000	Severe irritant. vailable evels greater than or eq ts carcinogenicity to hu levels greater than or e ture is classified as spe ture is classified as spe ty tract. As the concentration of . Could cause corneal ntial health effects abov 20 [Hydrogen peroxide]	mans. equal to 0.1% is ider cific target organ to: r time of exposure i damage which may re. Medical conditio	ntified as a carcinoge kicant, single exposur ncreases, the extent occur several days la	n or potential c re, category 3 v of damage incr ater.	carcinogen by OS with narcotic effect reases.	ts.	eye, dermatitis
Section 12	Ecological Information	1						
Toxicity to daphnia Toxicity to algae: C Persistence and de Mobility in soil: No Other adverse effe Section 13 These disposal gu	cts: An environmental haza Disposal Consideration idelines are intended for the e different. Dispose of in	brates: Daphnia magna 50 = 2.5 mg//growth ra ble Bioaccumul PBT and vPu rd cannot be excluded ons the disposal of catalo accordance with all lo	a (Crustacia), EC50 ate [Hydrogen perox ative potential: No /B assessment: No in the event of unpro- g-size quantities of ocal, state and feo	= 7.7 mg/l/24 hours   ide] o data available o data available ofessional handling o ponly. Federal regula	r disposal. ations may ap	- oply to empty cc	ntainer. State a nical disposal ag	ind/or local gency.
Section 14	Transport Information	n (US DOT / CANADA	TDG)					
UN/NA number: Hazard class: N Exceptions: No	ot applicable F	Chipping name: No Packing group: No 16 ERG Guide # 1	t applicable	Reportable Qua	antity: No	Ма	rine pollutant:	No
Section 15	Regulatory Informatio							
-	ed to be listed if the CAS numbe	r for the anhydrous form is TSCA	on the Inventory list.		הפי	NDSL		
Compon Hydrogen peroxide	ent	Listed	Not listed	RCRA code Not listed	DSL Listed	Not listed		
Section 16	Other Information							
The information contair dent determinations of	ned herein is furnished without v suitability and completeness of ency for Research on Cancer, O	nformation from all source	s to assure proper use	e of these materials and	the safety and h	ealth of employees.	NTP: National Toxi	cology Program

# ERG: Emergency Response Guidebook.

SDS No.: AA0265

Section 1	Chemical Product and Company Information	on
665 Carbon Billings, MT 800-860-627	59102	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.
Product	AMMONIUM HYDROXIDE, 28-30%	
Synonyms	Ammonium Hydroxide, Water Solution	
Section 2	Hazards Identification	
Pictograms Target orga GHS Classi Skin corrosis Acute aquat STOT-SE (C GHS Label H314: Caus H335: May o	n (Category 1B) ic (Category 1)	<ul> <li>Precautionary statement:</li> <li>P260: Do not breathe mist/vapours/spray.</li> <li>P264: Wash hands thoroughly after handling.</li> <li>P271: Use only outdoors or in a well-ventilated area.</li> <li>P273: Avoid release to the environment.</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P310: Immediately call a POISON CENTER or doctor.</li> <li>P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P312: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P363: Wash contaminated clothing before reuse.</li> <li>P391: Collect spillage.</li> <li>P403+P233: Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405: Store locked up.</li> <li>P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.</li> </ul>

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3	Composition / Information on Ingredients						
Chemical Name		CAS #	%	EINECS			
Water Ammonium hydroxid	e (as Ammonia)	7732-18-5 1336-21-6	Approximately 70-72% Approximately 28-30%	231-791-2 215-647-6			
Section 4	First Aid Measures		'				

**INGESTION:** MAY BE FATAL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE FATAL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SEVERE BURNS. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SEVERE BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

### Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly.

### Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Carefully neutralize with Sodium bicarbonate, absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

### Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts/vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
	Ammonia CAS No. 7664-41-7	TWA: 17 ma/m <sup>3</sup> : STEL: 24 ma/m <sup>3</sup>	TWA: 50 ppm, 35 mg/m <sup>3</sup>	TWA: 18 mg/m <sup>3</sup> : STEL: 27 mg/m <sup>3</sup>			

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.	approved respirator.							
Section 9	Physical & Chemical Prope	rties						
Appearance: Clear, Odor: Strong, punge Odor threshold: Da pH: Data not availab Melting / Freezing p Boiling point: 36°C Flash point: Data not	ent, suffocating odor. ta not available. le. oint: -77°C (-106°F) (97°F)	Flammability (solid/gas): Data not available.       Auto-ignition         Explosion limits: Lower / Upper: 16% / 27% (NH3 gas)       Decomposition         Vapor pressure (mm Hg): 115 mm @ 20°C (68°F)       Viscosity: Data not available.         Vapor density (Air = 1): 0.6-1.2       Molecular for			oefficient: Data no ion temperature: ( sition temperature Data not available formula: NH <sub>4</sub> OH weight: 35.05	651°C (1204°F) : Data not available.		
Section 10	Stability & Reactivity				1			
Incompatible mater		cause evapora gens, heavy m	netals.		as and nitroge	n oxides.		
Section 11	Toxicological Information							
Skin corrosion/irrita Serious eye damag Respiratory or skin Germ cell mutageni Carcinogenity: Dat NTP: No component IARC: No componen OSHA: No componen OSHA: No componen Reproductive toxici STOT-single expose STOT-repeated exp Aspiration hazard: Potential health effi Inhalation: Burning s Ingestion: Abdomina Skin: Redness, skin Eyes: Redness, pair	Acute toxicity:       Oral-rat LD50: 350 mg/kg [Ammonium hydroxide, anhydrous]         Skin corrosion/irritation:       Skin-rabbit - Severe irritant.         Serious eye damage/irritation:       Eyes-rabbit - Severe irritant.         Respiratory or skin sensitization:       Data not available         Germ cell mutagenicity:       Data not available         Carcinogenity:       Data not available         NTP:       No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.         IARC:       No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.         OSHA:       No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.         Reproductive toxicity:       Dat not available         STOT-single exposure:       The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.         STOT-repeated exposure:       Data not available         Potential health effects:       Inhalation:         Inhalation:       Burning sensation, cough, labored breathing, shortness of breath, sore throat.         Ingestion:       Abdominal cramps, abdominal pain, sore throat, vomiting,         Skin:       Redness, skin burns, pain, bisters.         Eyes							
Section 12	Ecological Information							
Toxicity to daphnia Toxicity to algae: TL Persistence and de Mobility in soil: No Other adverse effec	Toxicity to fish: LC50 Lepomis macrochirus (bluegill) 0.024-0.093 mg/L/48H         Toxicity to daphnia and other aquatic invertebrates: LC50 Daphnia magna (water flea) 0.66 mg/L/48H @ 22°C         Toxicity to algae: TLm Diatom (algae) 420 mg/L/120H @ 22°C (50% growth reduction)         Persistence and degradability: No data available         Mobility in soil: No data available       Bioaccumulative potential: No data available         PBT and vPvB assessment: No data available         Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.							
Section 13	Disposal Considerations							
	These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport Information							
UN/NA number:       UN2672       Shipping name:       Ammonia solution         Hazard class:       8       Packing group:       III       Reportable Quantity:       1,000 lbs (454 kg)       Marine pollutant:       No         Exceptions:       Limited quantity equal to or less than 5 L       2012 ERG Guide #       154								
Section 15	Regulatory Information							
	d to be listed if the CAS number for the							
Compone		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification	
Ammonium hydroxid	9	Listed	1,000 lbs (454 kg)	Not listed	Listed	Not listed	E	
Section 16	Additional Information							
		(						

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.