

SAFETY DATA SHEET

Version 1

1. Identification of the Substance / Preparation and of the Company / Undertaking

Product Name:

Ammonium Hydroxide 3%

UN/ID No

UN2672

Formula:

Mixture

Company Name:

Hawkins, Inc. 3100 E. Hennepin Avenue Minneapolis, MN 55413 (612-331-6910)

Emergency Telephone: CHEMTREC (US): 1-800-424-9300

2. Hazards Identification

GHS - Classification

Acute toxicity - Oral	Category 4	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 1	
Acute aquatic toxicity	Category 1	
Chronic aquatic toxicity	Category 1	
	Category 1	



Signal Word:

Danger

- **Hazard Statements:**
- · Harmful if swallowed
- · Causes skin irritation
- · Causes serious eye damage
- Very toxic to aquatic life with long lasting effects

Physical Hazards

Corrosive to metals

Category 1

May be corrosive to metals



Precautionary Statements:

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- P270 Do not eat, drink or smoke when using this product
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · P330 Rinse mouth
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P321 Specific treatment (see supplemental first aid instructions on this label)
- P332 + P313 If skin irritation occurs: Get medical advice/attention
- P362 Take off contaminated clothing and wash before reuse
- 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
- P310 Immediately call a POISON CENTER or doctor/physician
- P501 Dispose of contents/container to industrial incineration plant
- P273 Avoid release to the environment
- P501 Dispose of contents/ container to an approved waste disposal plant
- P334 Immerse in cool water/wrap in wet bandages
- P390 Absorb spillage to prevent material damage
- P406 Store in corrosive resistant aluminum container with a resistant inliner

3. Composition / Information on Ingredients

Hazardous

Chemica dame		Well-int-Va	
Ammonium hydroxide	1336-21-6	2-4	215-647-6

4. First Aid Measures

Eye Contact:

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Obtain medical attention.

Skin Contact:

Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Obtain medical attention.

Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Seek immediate medical attention/advice.

Ingestion:

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get medical attention.

Note to Physicians:

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

5. Fire-fighting Measures.

Fiammable Properties:

No information available

Explosive Properties:

No information available

Suitable Extinguishing Media:

Water spray (fog)

Unsuitable Extinguishing Media:

No information available

Specific Hazards Arising from the Chemical:

Thermal decomposition can lead to release of irritating and toxic gases and vapors; Releases Ammonia when heated. Oxidation of Ammonia can cause formation of Nitrogen Oxides

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

6. Accidental Release Measures

Personal Precautions:

Use only with adequate ventilation.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust).

Other Information:

Not applicable.

7. Handling and Storage

Advice on Safe Handling:

Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.

Storage Conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from any

source of heat or ignition. Keep away from incompatible substances.

Incompatible Materials:

Strong acids and bases; Oxidizing agents; Halogens; Metals

8. Exposure Controls / Personal Protection

Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Engineering Controls:

Ensure adequate ventilation, especially in confined areas

Personal protective equipment (PPE)

Eye/Face Protection:

Tight sealing safety goggles.

Body Protection:

Suitable protective clothing.

General Hygiene Considerations:

Do not eat, drink or smoke when using this product.

9. Playsical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State:

Liquid

Appearance:

No information available

Clear Colorless

Odor:

Slight odor of ammonia

Odor Threshold:

No information available

Property pH:

Color:

"Salt Out" Point ("F):

Values

Remarks • Method

Basic solution

No information available

Melting Point/Freezing Point: **Boiling Point/Bolling Range:**

Flash Point:

Evaporation Rate (BuAc=1):

Flammability (solid, gas): Flammability Limits in Air:

Upper Flammability Limit:

No information available

No information available

No information available

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Lower Flammability Limit:

Vapor Pressure (mm Hg) :

Vapor density (Air =1)

>1 Specific Gravity (H2O=1): 0.9940

Specific Gravity (2nd value):

Water Solubility:

Solubility(ies): **Partition Coefficient** (n-octanol/water)

Autoignition Temperature: **Decomposition Temperature:**

Kinematic Viscosity: **Dynamic Viscosity:**

Oxidizing Properties:

Explosive Properties:

9.2. Other information

Softening Point: Molecular Weight: VOC Content(%):

Density: **Bulk Density:** No information available

No information available

No information available

Completely soluble

No information available No information available No information available No information available

10. Stability and Reactivity

Stability:

Stable under normal conditions of use and storage

Conditions to Avoid:

Extremes of temperature and direct sunlight; Incompatibles; Ignition sources; Heat

No information available

Incompatible Materials:

Strong acids and bases; Oxidizing agents; Halogens; Metals

Hazardous Decomposition

Products:

Thermal decomposition can lead to release of irritating and toxic gases and vapors; Nitrogen oxides (NOx); Ammonia

Possibility of Hazardous Reactions: None under normal processing

11. Toxicological Information

Product Information

Acute Toxicity:

0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LDm	LCso (Lethal Concentration):
Ammonium hydroxide	350 mg/kg (Rat)	

Chronic Toxicity:

Carcinogenicity:

This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP

Target Organ Effects:

Eyes, Respiratory system, Skin

12. Ecological Information

Ecotoxicity

97% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Toxic to aquatic life with long lasting effects

Chemical Name	Toxicity to algae	Toxicity to fish	Texicity to daphnia and other aquatic invertebrates
Ammonium hydroxide		8.2: 96 h Pimephales promelas mg/L LC50	0.66: 48 h water flea mg/L EC50 0.66: 48 h Daphnia pulex mg/L EC50

Persistence and Degradability:

No information available.

Bioaccumulation:

No information available.

Mobility:

No information available.

13. Disposal Considerations

Waste from Residues/Unused Products:

Disposal should be in accordance with applicable regional, national and local laws and

regulations

44. Transport information

IATA

DOT

Proper shipping name

AMMONIUM HYDROXIDE

Hazard Class

8

UN/ID No

UN2672

Packing Group

Reportable Quantity (RQ)

Ш

1000 lbs

Description

NA



TDG

MEX

15. Regulatory Information

International Inventories

All of the components in the product are on the following Inventory lists: TSCA (United States):, Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), South Korea (KECL):, China (IECSC), ENCS (Japan):, Philippines (PICCS), This product contains a substance not listed on international inventories - it is for research and development use only.

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AICS	Complies
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies

Chemical Name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KEÇL	PICCS
Ammonium hydroxide	Listed	Listed	Listed		Listed	-	(1)-314	Listed	KE-01688	Present

Inventory Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

RESTRICTIONS - REACH TITLE VII No information available

US Federal Regulations

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)

Chemical Name	CERCLA Hazardous Substances and the Reportable Quantities	SARA Extremely Hazardous Substances EPCRA RQ	SARA Extremely Hazardous Substances TPQ
Ammonium hydroxide	1000 lb 454 kg	-	-

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Ammonium hydroxide	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

U.S. State Right-to-Know Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals

16. Other information

National Fire Protection Association (NFPA) Ratings



Prepared By:

Adam Peterson, Rob Kelley, Andrew Morabu and Todd Bain from the HSE department.

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Revision Date:

10-Oct-2012

Revision Note:

MSDS converted to GHS SDS Format.

Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied, is made regarding performance, stability, or otherwise. This information is not intented to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may require additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, the handling and use remains the responsibility of the consumer. No suggestions are intended as, and should not be constructed as, a recommendation to infringe on any existing patents or to violate any Federal,

End of Safety Data Sheet