



SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: Ammonium Sulfate 40% solution
Product Name: Ammonium Sulfate 40% solution
Revision Date: Jan 06, 2017 **Date Printed:** Jan 10, 2017
Version: 2.0 **Supersedes Date:** Sep 22, 2014
Manufacturer's Name: Martin Operating Partnership, L.P.
Address: P.O. Box 191, Kilgore, TX, US, 75663
Emergency Phone: CHEMTREC (800) 424-9300
Information Phone Number: 800-231-4595
Fax:
Product/Recommended Uses: Fertilizers

SECTION 2) HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Council Directive 1999/45/EC and its subsequent amendments.

Hazard not otherwise classified (HNOC):

None

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0007732-18-5	WATER	54% - 69%
0007783-20-2	AMMONIUM SULFATE	36% - 46%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.

Skin Contact:

Rinse/wash with lukewarm, gently flowing water and mild soap for 5 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

Eye Contact:

If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. If eye irritation persists: Get medical advice/attention.

Ingestion:

Rinse mouth, drink plenty of water. If unwell or concerned : Get medical advice/attention. If ingested in large quantities, may cause gastric upset,ulceration or hemorrhage of G.I tract, and diarrhea. Get medical advice immediately. Induce vomiting only if advised by a doctor/POISON CENTER.

Most Important Symptoms/Effects, Acute and Delayed:

No data available

Indication of Immediate Medical Attention and Special Treatment Needed:

No data available

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Dry chemical, foam, carbon dioxide, water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Water or foam may cause frothing. If leak or spill has not ignited, use water spray to cool the containers and to provide protection for personnel attempting to stop the leak.

Unsuitable Extinguishing Media:

Not available.

Specific Hazards in Case of Fire:

Ammonia fumes may be emitted; Oxides of Nitrogen may form in the presence of a catalyst (Platinum).

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Use water to keep fire-exposed containers cool.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

All personnel involved in spill clean up should avoid skin and eye contact by wearing appropriate personal protective equipment.

Contain and reclaim if possible.

Recommended equipment:

Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

Avoid inhalation of dust and contact with skin and eyes.

Do not touch damaged containers or spilled materials unless wearing appropriate clothing.

Environmental Precautions:

Do not discharge into drains/surface waters/ groundwater. Retain and dispose of contaminated wash water.

This product is a fertilizer, and if discarded to waterways, may promote algae growth/eutrophication.

SECTION 7) HANDLING AND STORAGE

General:

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Storage Room Requirements:

Keep in a cool, dry place away from any strong oxidizers, strong bases, chlorates or nitrates.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection:

Dust-proof goggles or safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

Skin protection:

Avoid skin contact. Wear chemical resistant protective gloves. Additional protection may be necessary to prevent skin contact including use of apron, coveralls and boots.

Respiratory protection:

Dust respirator. Be sure to use an approved/certified respirator or equivalent. If exposure limits are exceeded, NIOSH approved respiratory protection should be used.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
No applicable chemical	-	-	-	-	-	-	-	-	-	-	-	-

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis
No applicable chemical	-	-	-	-	-	-	-

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**Physical and Chemical Properties**

Density	8.95 lb/gal
% Solids By Weight	0.00%
Density VOC	0.00 lb/gal
% VOC	0.00%
VOC Actual	0.00 lb/gal
VOC Actual	0.00 g/l
Specific Gravity	1.07

Appearance	Clear liquid
Odor Threshold	N.A.
Odor Description	N.A.
pH	5.20 (in 20% solution)
Water Solubility	Soluble
Flammability	N/A
Flash Point Symbol	N.A.
Flash Point	N.A.
Viscosity	N.A.
Lower Explosion Level	N.A.
Upper Explosion Level	N.A.
Vapor Pressure	N.A.
Vapor Density	N.A.
Freezing Point	N.A.
Melting Point	N.A.
Low Boiling Point	N.A.
Auto Ignition Temp	N.A.
High Boiling Point	N.A.
Decomposition Pt	235 °C
Evaporation Rate	N.A.
Partition Coefficient: n-Octanol/Water	N.A.

SECTION 10) STABILITY AND REACTIVITY

Stability:

Stable

Conditions to Avoid:

Temperatures >230°C(446°F) will cause decomposition and release ammonia.

Hazardous Polymerization:

Not available.

Incompatible Materials:

Incompatible with strong oxidizers, bases, chlorates, nitrates.

Hazardous Decomposition Products:

Decomposition will cause the release of ammonia.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:

No Data Available

Serious Eye Damage/Irritation:

Can be moderately irritating to eyes.

Respiratory/Skin Sensitization:

No Data Available

Germ Cell Mutagenicity:

No Data Available

Carcinogenicity:

No Data Available

Reproductive Toxicity:

No Data Available

Specific Target Organ Toxicity - Single Exposure:

No Data Available

Specific Target Organ Toxicity - Repeated Exposure:

No Data Available

Aspiration Hazard:

No Data Available

Acute Toxicity:

If ingested, may cause gastric upset, ulceration, or hemorrhage of the gastrointestinal tract, and diarrhea.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:

No Data Available

Bioaccumulative Potential:

No Data Available.

Mobility in Soil:

No Data Available.

Other Adverse Effects:

No Data Available.

Persistence and Degradability

0007783-20-2 AMMONIUM SULFATE

Can be oxidized to nitrate, or be reduced to nitrogen, by micro-organism

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal:

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:

Not applicable.

IMDG Information:

This material is not classified as dangerous under IMDG regulations.

IATA Information:

This material is not classified as dangerous under IATA regulations.

SECTION 15) REGULATORY INFORMATION

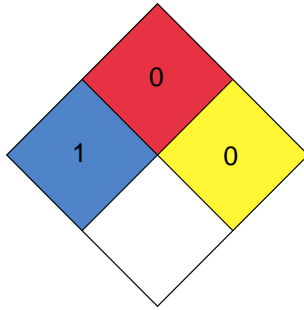
CAS	Chemical Name	% By Weight	Regulation List
0007732-18-5	WATER	54% - 69%	TSCA
0007783-20-2	AMMONIUM SULFATE	36% - 46%	SARA313, SARA312, TSCA, TX_ESL, TX_TCEQ

SECTION 16) OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

Glossary:

ACGIH: American Conference of Governmental Industrial Hygienists
ANSI: American National Standards Institute
Canadian TDG: Canadian Transportation of Dangerous Goods
CAS: Chemical Abstract Service
Chemtrec: Chemical Transportation Emergency Center (US)
CHIP: Chemical Hazard Information and Packaging
DSL: Domestic Substances List
EC: Equivalent Concentration
EH40 (UK): HSE Guidance Note EH40 Occupational Exposure Limits
EPCRA: Emergency Planning and Community Right-To-Know Act
HMIS: Hazardous Material Information Service
LC: Lethal Concentration
LD: Lethal Dose
NFPA: National Fire Protection Association
OEL: Occupational Exposure Limits OSHA: Occupational Safety and Health Administration, US Department of Labor
PEL: Permissible Exposure Limit
SARA (Title III): Superfund Amendments and Reauthorization Act
SARA 313: Superfund Amendments and Reauthorization Act, Section 313
SCBA: Self-Contained Breathing Apparatus
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substances Control Act Public Law 94-469
TWA: Time Weighted Value
US DOT: US Department of Transportation
WHMIS: Workplace Hazardous Materials Information System

NFPA



Version 2.0:

Revision Date: Jan 06, 2017

Changes made on: Section 1, Section 2, Section 4, Section 8, Section 9, Section 11, Section 12 and Section 16
Please contact the supplier for further information on the version history

DISCLAIMER

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

Information provided in this Safety Data Sheet is considered accurate and reliable based on information issued from internal and outside sources to the best of Martin Operating Partnership L.P.'s knowledge; however, Martin Operating Partnership L.P. makes no representations, guarantees or warranties, expressed or implied, of merchantability or fitness for the particular purpose, regarding the accuracy of such information or the result to be obtained from the use thereof or as to the sufficiency of information herein presented. Martin Operating Partnership L.P. assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Martin Resources, a division of Martin Operating Partnership L.P., must rely upon information provided by the material manufacturers or distributors.