

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier: AMMONIUM SULFATE LIQUID

Synonyms: LAS; Liquid Ammonium Sulfate, Ammonium Sulfate Solution
Intended use: Water and wastewater treatment, fertilizer, and other industrial uses.

Uses Advised Against: None known.

Company Identification DPC Industries, Inc.

DPC Enterprises, LP DXI Industries, Inc. DX Terminals PO Box 24600

Houston, TX 77229-4600

Emergency

CHEMTREC (USA) (800) 424-9300 **24 hour Emergency Telephone No.** (281) 457-4888

www.dxgroup.com

2. Hazard identification of the product

with the first the product		
Health hazards	May be harmful if swallowed.	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye irritation	Category 2a

Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



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Signal Word	Warning	
Hazard Statements	Causes eye and skin irritation. Harmful if swallowed.	
Precautionary Statements		
Prevention	Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Use in well ventilated area. Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment.	
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Contact medical personnel. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with shower/ water. Wash contaminated clothing before reuse. If skin irritation, get medical attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - Continue rinsing. If irritation persists, get immediate medical attention.	
Storage	Do NOT freeze. Store in dry, well ventilated area. Keep container closed when not in use.	
Disposal	Dispose of contents / container in accordance with local / national regulations.	
Hazard(s) not otherwise classified (HNOC)	Not known.	

3. Composition/information on ingredients

Substance classified with a health or environmental hazard.

Synonyms: LAS; Liquid Ammonium Sulfate, Ammonium Sulfate Solution

Ingredient/Chemical	CAS Number	Weight %
Ammonium Sulfate	7783-20-2	20 - 50

scription of first aid	measures
General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artific respiration. If unconscious place in the recovery position and obtain immediate medical attention.
Eyes	Irrigate copiously with clean fresh water for at least 15 minutes, holding the eyelids apart. If contal lenses are present, DO NOT delay irrigation until lenses are removed. Seek immediate medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. If irritation persists, seek medical attention. Do NOT reuse clothing until thorough cleaned.
Ingestion	Rinse mouth. Do NOT induce vomiting. If victim is conscious, give a glass of water. Never give anything by mouth to an unconscious person. Contact a physician immediately.
ost important sympt	oms and effects, both acute and delayed
Overview	Treat symptomatically.
Fire-fighting measu	res
Extinguishing media	Use extinguishing agent suitable for type of surrounding fire.
Unsuitable extinguishing media	None known.
Special hazards arising from the substance or mixture	Forms sulfur trioxide, nitrogen and ammonia oxides.
Advice for fire- fighters	Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Move container from fire area if it can be done without risk. Avoid skin contact. Stay upwind.
Accidental release r	neasures
Personal precautions, protective equipment and emergency procedures	Isolate area from unprotected personnel. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Dike to prevent spill from spreading. Collect with compatible absorbent and place in container with lid. Prevent entry into waterways, sewers, basements or confined areas. Floor may be slippery – use care and clean thoroughly.
Environmental precautions	Do not allow spills to enter drains or watercourses.
Methods and material for containment and cleaning up	Ventilate the area and avoid breathing vapors. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. Do not allow spills to enter drains or watercourse If drains, sewers, streams or lakes are contaminated, contact applicable regulatory agencies.
Handling and storaç	
Precautions for safe handling	Avoid contact with eyes, skin and clothing. Avoid breathing vapors, mist or aerosols.
Conditions for safe storage, including any incompatibilities	Handle containers carefully to prevent damage and spillage. Store in a cool, dry, well ventilated place. Store away from incompatible materials described in Section 10. Keep containers closed when not in use.

8. Exposure controls and personal protection

)ccu _l	pational expo	osure limits
	Course	

CAS No.	Material	Source	Value
7783-20-2	Ammonium Sulfate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Individual protection measures, such as personal protective equipment

Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.	
Wear safety glasses with side shields or safety goggles to protect the eyes. An eye wash station is suggested as a good workplace practice.	
Chemical resistant clothing such as coveralls/apron boots should be worn. Chemical impervious gloves. Emergency eyewash station should be in close proximity.	
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable, respiratory protection must be worn. A safety shower/eye wash station is suggested as a good workplace practice.	
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.	

9. Physical and chemical properties

Appearance	Clear, colorless to pale yellow or amber liquid
Odor	None
Odor threshold	Not Applicable
рН	4 - 6
Melting point / freezing point (°C)	Not Measured
Initial boiling point and boiling range (°C)	102 C (215 F)
Flash Point	> 200 F
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Applicable
	Upper Explosive Limit: Not Applicable
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	1.20 - 1.25
Solubility in Water	Complete
Solubility III Water	Complete
Partition coefficient n-octanol/water (Log Kow)	Not Measured
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Partition coefficient n-octanol/water (Log Kow)	Not Measured
Partition coefficient n-octanol/water (Log Kow) Auto-ignition temperature (°C)	Not Measured Not Measured

10. Stability and reactivity

Reactivity Hazardous polymerization will not occur.	
Chemical stability Material is stable under normal conditions.	
Possibility of hazardous reactions No data available.	
Conditions to avoid	Incompatible products. Temperatures greater than 282oF (139oC) will cause
decomposition with release of ammonia and sulfur trioxide. Heating	
	reacting with Alkali will cause Ammonia Flash.
Incompatible materials	Avoid strong oxidizing agents, alkalis, acids, chlorates, and nitrates.
Hazardous decomposition products	Forms sulfur trioxide, nitrogen and ammonia oxides.

11. Toxicological information

Ingredient	Results	Species	Dose	Exposure
Ammonium Sulfate	LD50 Oral	Rat	2840 mg/kg	-
7783-20-2	LD50 Dermal			
	LC50 Inhalation			

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Item		Hazard
Acute Toxicity (mouth)	Not Applicable	
Acute Toxicity (skin)	Not Applicable	
Acute Toxicity (inhalation)	Not Applicable	
Skin corrosion/irritation	Contact with sk	in will result in irritation.
Eye damage/irritation	Contact will car	use eye irritation.
Sensitization (respiratory)	Not Applicable	
Sensitization (skin)	Not Applicable	
Germ toxicity	Not Applicable	
Carcinogenicity	Not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.	
Reproductive Toxicity	None expected.	
Specific target organ systemic toxicity	1.1	
Specific target organ systemic Toxicity		
Aspiration hazard	Not Applicable	

12. Ecological information

Aquatic Ecotoxicity

Ingredient	LC50/96 hr fish, mg/l	EC50/48hr crustacea, mg/l	EC50/72hr algae, mg/l
Ammonium Sulfate	75.5	Not Available	Not Available
(7783-20-2)	Mozambique tilapia		

Persistence and degradability	ity Dissociates into potassium and nitrate ions in the environment.			
Bioaccumulative potential	al Not expected.			
Mobility in soil	il No data available.			
Results of PBT and vPVB	This product contains no PBT/vPvB chemicals.			
assessment				
Other adverse effects No data available.				

13. Disposal considerations

Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.	
Waste from material	The waste determination should be made in discussion between the user and the waste disposal company.	
Container Management	Empty containers or liners may retain some product residues. Empty containers should be taken for local recycling, recovery or waste disposal.	

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14. Transport information				
Transport hazard class(es)				
DOT (Domestic Surface Transportation)				
DOT Proper Shipping Name:	Not regulated			
DOT Hazard Class DOT Label:	Not Applicable None			
UN / NA Number:	Not Applicable			
DOT Packing Group:	Not Applicable			
CERCLA/DOT RQ:	Not Applicable			
Environmental hazards:	s: IMDG: Marine Pollutant: No			
Special precautions for user:	er: Not Applicable			

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15. Reau	latorv	information	Ĺ

10. Hegulatory information				
Regulatory (Overview:	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory.		
US EPA Tier II Hazards:		Fire:	No	
		Sudden Release of	No	
		Pressure:	INO	
		Reactive:	No	
		Immediate (Acute):	Yes	
		Delayed (Chronic):	No	
SARA 302 Extremely Hazardous Substance:		zardous Substance:	No	
SARA 311/312 Chemicals :		311/312 Chemicals :	No	
SARA 313 (TRI)		SARA 313 (TRI)	No	
CAA Section 112 Hazardous Air Pollutant		ardous Air Pollutant	No	
CAA Section 112R Risk Management Plan		k Management Plan	No	
State Regulations:	N.J. RTK Substances (>1%)		Listed	
Penn RTK Substances (>1%)		K Substances (>1%)	Listed	
California Prop 65		California Prop 65	Not listed	

16. Other information

Revision Information: This is the first revision of this SDS format, changes from previous revision not applicable.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY ON HIS OWN DETERMINATIONS.