



Section 1: Identification

Product identifier

Product Name • Daksul 45 - Ammonium Sulfate

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Fertilizers, water treatment, fermentation, fireproofing compositions, viscose rayon, tanning, food additive.

Details of the supplier of the safety data sheet

Manufacturer • Dakota Gasification

420 County Road 26 Beulah, ND 58523-9400 United States

Telephone • (701) 873-2100 (General)

Emergency Contact Information

Email• DGCEmergency@bepc.comManufacturer• 701-873-6600CHEMTREC• 800-424-9300

Section 2: Hazard Identification

United States (US) According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Not classified

Label elements

OSHA HCS 2012

Hazard • No label element(s) required

statements

Other hazards

• This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Canada According to WHMIS

Classification of the substance or mixture

WHMIS • Not classified

Label elements

WHMIS • No label element(s) required

Other hazards

WHMIS • In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

Substances

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Ammonium sulfate	CAS :7783- 20-2	99% TO 100%	Ingestion/Oral-Rat LD50 • 2840 mg/kg	OSHA HCS 2012: Not Classified	NDA

Mixtures

• Material does not meet the criteria of a mixture.

Section 4: First-Aid Measures

Description of first aid measures

Inhalation	 Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.
Skin	 In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse.
Eye	• In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.
Ingestion	 Give plenty of water to drink. Do not give anything by mouth to an unconscious person. Get medical attention.
Most impor	tant symptoms and effects, both acute and delayed
	Refer to Section 11 - Toxicological Information.
Indication of	of any immediate medical attention and special treatment needed
Notes to	 No specific actions or treatments recommended related to exposure to this material.

- Physician
- o specific actions or treatments recommended related to exposure to this materia

• In case of fire use media as appropriate for surrounding fire.

Section	5:	Fire-Fighting	Measures
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Extinguishing media

Suitable Extinguishing Media
Unsuitable Extinguishing Media

No data available.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Contact with strong oxidizers may cause fire and explosion.

Hazardous Combustion Products

Advice for firefighters

- No data available.
 - Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- **Personal Precautions** • Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE)
- **Emergency Procedures** • As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. Keep unauthorized personnel away.

Environmental precautions

• LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Containment/Clean-up Measures	 Avoid generating dust. SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading. Flush spill area with water spray.

Section 7 - Handling and Storage

Precautions for safe handling

Handling • Use only with adequate ventilation. Avoid breathing dust. Wear appropriate personal protective equipment. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage • Keep container/package tightly closed and in a well-ventilated place. Keep away from incompatible materials.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines • No applicable exposure limits available for product or components.

Exposure controls

Engineering Measures/Controls	 Dilution ventilation. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
Personal Protective Eq	uipment
Respiratory	 In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.
Eye/Face	Wear safety goggles.
Hands	Wear appropriate gloves.
Skin/Body	 Use chemical resistant gloves of neoprene, natural rubber, or PVC. Wear long sleeves

and/or protective coveralls.

Environmental Exposure Controls

• Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description				
Physical Form	Solid	Appearance/Description	Brown-gray to white crystals o granules with no odor.	
Color	Brown-gray to white.	Odor	Odorless	
Odor Threshold	No data available			
General Properties				
Boiling Point	No data available	Melting Point	280 C(536 F)	
Decomposition Temperature	> 280 C(> 536 F)	рН	5.5 1.3% Solution	
Specific Gravity/Relative Density	1.77 Water=1	Water Solubility	Appreciable > 10 %	
Viscosity	Not relevant			
Volatility				
Vapor Pressure	No data available	Vapor Density	No data available	
Evaporation Rate	No data available			
Flammability				
Flash Point	No data available	UEL	No data available	
LEL	No data available	Autoignition	No data available	
Flammability (solid, gas)	No data available			
Environmental				
Octanol/Water Partition coefficient	No data available			

Section 10: Stability and Reactivity

Reactivity

• No dangerous reaction known under conditions of normal use.

Chemical stability

• Stable under normal temperatures and pressures.

Possibility of hazardous reactions

• Hazardous polymerization not indicated.

Conditions to avoid

• Avoid contact with heat. Temperatures above 280°C (536°F) causes material to decompose.

Incompatible materials

• Contact with strong oxidizers may cause fire or explosion. Incandescent reaction on heating with potassium chlorate. Reaction with sodium hypochlorite forms the unstable explosive trichloride. Copper, brass, bronze, strong acids. Contact with strong oxidizers may cause fire or explosion. Incandescent reaction on heating with potassium chlorate. Reaction with sodium hypochlorite forms the unstable explosive trichloride. Copper, brass, bronze, strong acids.

Hazardous decomposition products

• Ammonia and Sulfur Oxides.

Section 11 - Toxicological Information

Information on tox	icological effects		
GHS Properties		Classification	
Acute toxicity		OSHA HCS 2012•No data available	
Aspiration Hazard		OSHA HCS 2012•No data available	
Carcinogenicity		OSHA HCS 2012•No data available	
Germ Cell Mutagenicity		OSHA HCS 2012•No data available	
Skin corrosion/Irritation		OSHA HCS 2012•No data available	
Skin sensitization		OSHA HCS 2012•No data available	
STOT-RE		OSHA HCS 2012•No data available	
STOT-SE		OSHA HCS 2012•No data available	
Toxicity for Reproduction		OSHA HCS 2012•No data available	
Respiratory sensitization		OSHA HCS 2012•No data available	
Serious eye damage/Irritatio	n	OSHA HCS 2012•No data available	
Route(s) of entry/exposure	 Inhalation, Skin, E 	Eye, Ingestion	
Medical Conditions Aggravated by Exposure	• Disorders of the Iu	ungs.	
Potential Health Effe	ects		
Inhalation			
Acute (Immediate)	• Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.		
Chronic (Delayed) Skin	 No data available 		
Acute (Immediate)	 Exposure to dust 	may cause mechanical irritation.	
Chronic (Delayed) Eye	• No data available.		
Acute (Immediate)	 Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes. 		
Chronic (Delayed) Ingestion	• No data available.		
Acute (Immediate)	 Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes. 		
Chronic (Delayed)	No data available		

Information on toxicological effects

Section 12 - Ecological Information

Toxicity

• One use of Ammonium Sulfate is as a fertilizer; therefore, waste ammonium sulfate might be used as a fertilizer. If discarded to waterways, it may promote eutrophication.

Persistence and degradability

Non-mandatory section - information about this substance not complied for this reason.

Bioaccumulative potential

Non-mandatory section - information about this substance not complied for this reason.

Mobility in Soil

• Non-mandatory section - information about this substance not complied for this reason.

Other adverse effects

No studies have been found.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging Dispose of content and/or container in accordance with local, regional, national, and/or waste international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not regulated	NDA	NDA	NDA
TDG	NDA	Not regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not regulated	NDA	NDA	NDA

Special precautions for user

None known.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not relevant.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

State Right To Know MA PA Component CAS NЈ Ammonium sulfate 7783-20-2 Yes No Yes

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Ammonium sulfate	7783-20-2	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

Ammonium sulfate

Canada - WHMIS - Ingredient Disclosure List

None

7783-20-2

Uncontrolled product according to WHMIS classification criteria

•Ammonium sulfate	7783-20-2	1 %
Environment		
Canada - 2004 NPRI (National Pollutant Release Inventory) •Ammonium sulfate	7783-20-2	Not Listed
Canada - 2005 NPRI (National Pollutant Release Inventory) •Ammonium sulfate	7783-20-2	Not Listed
Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting •Ammonium sulfate Canada - CEPA - Bright Substances List	7783-20-2	Not Listed
Canada - CEPA - Priority Substances List •Ammonium sulfate	7783-20-2	Not Listed
Canada - DWQ (Drinking Water Quality) - IMACs •Ammonium sulfate	7783-20-2	Not Listed
Other		
Canada - Accelerated Reduction/Elimination of Toxics (ARET) •Ammonium sulfate	7783-20-2	Not Listed
Canada New Brunswick		
Environment		
Canada - New Brunswick - Ozone Depleting Substances - Schedule A •Ammonium sulfate	7783-20-2	Not Listed
Canada - New Brunswick - Ozone Depleting Substances - Schedule B •Ammonium sulfate	7783-20-2	Not Listed
United States	1100 20 2	
Labor		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
•Ammonium sulfate U.S OSHA - Specifically Regulated Chemicals	7783-20-2	Not Listed
•Ammonium sulfate	7783-20-2	Not Listed
Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants •Ammonium sulfate	7783-20-2	Not Listed
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants •Ammonium sulfate U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants •Ammonium sulfate U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities •Ammonium sulfate U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities	7783-20-2	Not Listed
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United States - Pennsylvania

Labor		
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
•Ammonium sulfate	7783-20-2	
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances		
•Ammonium sulfate	7783-20-2	Not Listed

Section 16 - Other Information	
Last Revision Date Preparation Date	29/September/201928/January/2010
Disclaimer/Statement of Liability	• The information contained in this Safety Data Sheet (SDS) is believed to be correct since it was obtained from sources we believe are reliable. However no representation, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications, hazards connected with the use of the material, or the results to be obtained from the use thereof. User assumes all risks and liability of any use, processing or handling of any material, variations in methods, conditions and equipment used to store, handle, or process the material and hazards connected with the use of the material are solely the responsibility of the user and remain at his sole discretion. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user, and the user has the responsibility to provide a safe work place to examine all aspects of its operation and to determine if or where precautions, in addition to those described herein, are required.
Key to abbreviations	

NDA = No data available