



# HASA ALUM Material Safety Data Sheet

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**HASA ALUM**  
Material Safety Data Sheet MSDS No.210

PRODUCT IDENTIFICATION	
<b>PRODUCT NAME:</b>	HASA ALUM

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION	
<b>HAZARDOUS COMPONENTS:</b>	Kal (so4) 212H2O Potash Alum Crystal Slum Potassium Aluminum Sulfate
<b>OSHA PEL:</b>	
<b>ACGIH TLV:</b>	2 Mg (AL)/M3
<b>OTHER LIMITS:</b>	
<b>%:</b>	
HAZARDOUS SUBSTANCE APPLIES WHEN DISCHARGED INTO NAVIGABLE WATER, CATEGORY (P) HARMFUL AMOUNT 3000 POUNDS.	
<b>CAS NUMBER:</b>	7784-24-9
<b>HMIS DESIGNATION:</b>	1H, 0F, 0R

PHYSICAL AND CHEMICAL PROPERTIES			
<b>Boiling Point:</b>	N/A	<b>Vapor Pressure (mm Hg):</b>	N/A
<b>Vapor Density (Air=1):</b>	N/A	<b>Solubility in Water:</b>	Moderate
<b>Specific Gravity (Water=1):</b>	1.97	<b>Melting Point:</b>	N/A
<b>Appearance and Odor:</b>	Colorless, odorless crystal or white powder.		

FIRE AND EXPLOSION HAZARD DATA	
<b>Flash Point:</b>	N/A
<b>Flammable Limits:</b>	Not Flammable.
<b>Extinguishing media:</b>	Not Flammable.
<b>Special Fire fighting Procedures:</b>	May release Sulfur Dioxide or Sulfur Trioxide at high heat.
<b>Unusual Fire and Explosion Hazards:</b>	None

REACTIVITY DATA	
<b>Stability:</b>	Stable
<b>Hazardous Decomposition or Byproducts:</b>	Sulfur dioxide (SO <sub>2</sub> ). Possibly Sulfur trioxide (SO <sub>3</sub> )
<b>Hazardous Polymerization:</b>	Will not occur.

HEALTH HAZARDS	
<b>Routes of Entry:</b>	Inhalation, Irritation
<b>Skin:</b>	Irritation
<b>Ingestion:</b>	May be harmful.
<b>Health hazards (Acute and Chronic):</b>	Irritation of skin and mucous membrane.
<b>Carcinogenicity:</b>	N/A
<b>NTP:</b>	N/A
<b>Signs and Symptoms of Exposure:</b>	Irritation possible form inhalation, eye contact or prolonged skin contact.
<b>Medical Conditions Generally Aggravated by Exposure:</b>	N/A
<b>Emergency and First Aid Procedures:</b>	Wash skin, flush residue with plenty of water for at least 15 minutes and get medical attention. For ingestion get medical attention.

PRECAUTIONS FOR SAFE HANDLING AND USE	
<b>Steps to be taken in case material is released or spilled:</b>	Shovel up and remove, flush residue with water. Neutralize with alkalis.

<b>Waste Disposal:</b>	Dissolve in waster and flush to waste as permitted by applicable regulations.
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<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:</b>	Store in a cool dry place.
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CONTROL MEASURES	
<b>Inventory Protection (Specify Type)</b>	
<b>NIOSH Approved Respirator Where Required.</b>	
<b>Ventilation:</b>	N/A
<b>Local Exhaust:</b>	As necessary to eliminate dust.
<b>Protective Gloves:</b>	Rubber or vinyl
<b>Eye Protection:</b>	Safety glasses-chemical safety goggles
<b>Other Protective Clothing Or Equipment:</b>	Clothing sufficient to protect skin from dust.

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