

SAFETY DATA SHEET (SDS)

Dharma Trading Company
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Alum - Pg 1

Revision Date: 07/30/2018

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	ALUM	
Product Number/Code:	CHM1006 / CHM2006 / CHM3006	
Recommended Use:	Mordant for paper and fabric	
Synonym(s):	Potassium alum (chemical family: inorganic aluminum salt)	
Restrictions on use:	None known	
Manufacturer:	Dharma Trading Company 1805 South McDowell Boulevard Ext. Petaluma, CA 94954 542 5227 www.dharmatrading.com	
Emergency Number:	ChemTel, Inc. - Contract #MIS9128344	
	North America: 1-800-255-3924	International: 1-813-248-0585

SECTION 2 - HAZARD(S) IDENTIFICATION

This product is not considered to be or contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, reference 29 CFR 1910.1200.	
Toxicological Data on Ingredients:	
Hazard Classification	Irritant
Label Elements	
Pictogram:	
Signal Words:	WARNING
Hazard Statements-EU:	H315 Causes skin irritation. H319 Causes serious eye irritation. H302 Harmful if swallowed. H335 May cause respiratory irritation.
Precautionary Statements-EU:	
Prevention:	P102 Keep out of reach of children.
Response:	P310+P312 If Swallowed and feeling unwell: contact a Poison Control Center or physician. P305+P351+P338 If in Eyes: Rinse cautiously with water for several minutes. If present and easy to do remove contacts. Continue rinsing. P302+P352 If on Skin: Wash with soap and water.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Component	Weight %	67/548/EEC Classification (EU)	CLP/Classification Regulation (EC)	REACH No./EC- No.
Aluminum potassium sulfate dodecahydrate CAS# 7784-24-9	100	Xn: R22 Xi: R36/38	H315-Skin Irrit. H319-Eye Irrit. H302-Harmful if swallowed.	-----
<i>(see section 16 for full EU text R-phases)</i>				

SECTION 4 - FIRST AID MEASURES

Description of first aid measures:	
In the event of skin contact:	Wash with soap and water. If irritation persists get medical attention.
In the event of eye contact:	Immediately rinse with water. Continue rinsing for at least 15 minutes. Get medical attention.
In the event of swallowing:	Clean and rinse mouth with water. Do Not induce vomiting. If feeling unwell get medical attention.
In the event of exposure by inhalation:	Move to fresh air. Get medical attention if needed.
Notes to physician:	Treat symptomatically and supportively.

SECTION 5 - FIREFIGHTING MEASURES

Flammability classification:	Non-flammable
Flash point:	N/A
Auto Ignition:	N/A
Burn Rate:	N/A
LEL:	N/A
UEL:	N/A
Hazardous combustion products:	Thermal decomposition can lead to the formation of hazardous and irritating gases and vapors.
Extinguishing media:	Water, CO ₂ , chemical foam.
Advice for fire fighters:	As in any fire, when appropriate wear self-contained breathing apparatus and protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Avoid dust formation and have adequate ventilation. Use appropriate personal protective equipment.
Methods and material for containment and clean up:	Sweep, shovel or vacuum into a suitable container for reuse or disposal. Avoid creating dust.
Environmental precautions:	Contain and clean up spill. Prevent from entering the environment.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Avoid creating dusty conditions. Use personal protect equipment as appropriate. Avoid contact with eyes and skin. Avoid breathing dust. Do not ingest. Always wash hands when leaving the work area. Never eat or drink, smoke, or take medicine without first washing.
Conditions for safe storage including any incompatibilities:	Keep material in closed container stored in a secure, dry location away from incompatible materials.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:			
Exposure limits:	This product as supplied does not contain any hazardous materials with occupational exposure limits established by region specific regulatory bodies.		
Biological Limit Value:	This product as supplied does not contain any hazardous materials with biological limits established by region specific regulatory bodies.		
Derived No effect Level (DNEL):	No information available.		
Predicted No Effect Concentration (PNEC):	No information available.		
North America: Soluble aluminum salts respiratory category			
Category	ACGIH	NIOSH	OSHA-Final PELs
Soluble aluminum salts	None listed	2mg/m ³ TWA (as Al) (listed as soluble aluminum salts)	None listed
Individual protection measures, such as personal protective equipment:			
Eye/face protection:	Goggles		
Skin protection:	Wear appropriate clothing to prevent skin exposure.		
Hand protection:	Wear gloves.		
Environmental exposure controls:	Ensure adequate ventilation. Have eyewash and safety shower stations available. Have work procedures and handling systems that minimize dust formation.		
Respiratory protection:	If exposure to dust is expected or if irritation is experienced follow OSHA 29CFR 1910.134 or European Standard EN 149 regulations for respirator use.		

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Appearance and physical state:	Powder, solid granules
Color:	White
Type of Odor:	Negligible
Odor threshold:	N/A
Important health, safety and environmental information:	
Initial Boiling Point and Boiling Range:	N/A
Melting Point/Freezing Point:	92°C
Flammability Classification:	N/A
Flash Point:	N/A
Auto-ignition Temperature:	N/A
Decomposition Temperature:	>200°C
Flammability Limits (lower/upper):	N/A
Evaporation rate:	N/A
Vapor Pressure:	N/A
Vapor Density (Air=1):	N/A
Octanol/Water Partition Coefficient (log Pow):	N/A
Specific Gravity:	1.757
Bulk Density:	N/A
Water Solubility:	140 g/l @ 20°C
pH:	10% Solution @ 20°C: 3.0-3.5
Viscosity:	N/A
Explosive Properties:	N/A
Oxidizing Properties:	N/A
Molecular Formula:	$\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
Molecular Weight:	474.39
Relative Density:	N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Incompatible products, dust generation.
Incompatible materials:	Strong oxidizing agents, water reactive materials, metals other than stainless alloys.
Hazardous decomposition products:	Decomposition of dried potassium aluminum sulfate occurs at high temperatures can produce sulfur oxides and other noxious fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects:	
Acute toxicity (list all possible routes of exposure)	
Acute Toxicity:	No acute toxicity information is available for this product.
Chronic Toxicity:	No known carcinogenic chemicals in this product. Not listed by: ACGIH, IARC, NTP, OSHA.
Mutagenic effects:	No information available.
Reproductive effects:	No information available.
Developmental effects:	No information available.
Endocrine Disruptor Information:	None known.
Sensitivity:	No information available.
Target Organs:	No information available.
Additional Information:	see RTECS # WS5690000

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity:	
Ecotoxicity:	No information available.
Persistence and degradability:	No information available.
Bioaccumulative potential:	No information available.
Mobility in soil:	No information available.
Results of PBT and vPvB assessment (EC reg. 453/2010):	No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Product and product residue disposal:	Dispose of in accordance with local regulations.
USEPA/RCRA:	Unused product is not listed as a hazardous waste.
Contaminated packaging:	Dispose of in accordance with local regulations. Clean and recycle packaging when possible.

SECTION 14 - TRANSPORT INFORMATION

US DOT:	Not regulated
Canada TDG:	Not regulated
IMDG/IMO:	Not regulated
ADR:	Not regulated
IATA:	Not regulated

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:	
USA TSCA Inventory:	Listed
Canada DSL/NDSL Inventory:	Listed
EU/EINECS/ELINCS Inventory:	Listed
KECL Inventory:	Listed
PICCS:	Listed
ENCS:	Listed
CHINA:	Listed
AICS:	Listed
OSHA regulated substances (29CFR 1910):	Not listed
SARA 302 Extremely Hazardous Substance:	Not listed
SARA 311/312 Category:	No SARA hazards
SARA 313:	Not listed
CERCLA Hazardous Substance:	Not listed
SARA Toxic Chemical (40CFR 372.65)	Not listed
CERCLA Reportable Quantity (RQ):	Not listed
CA Prop 65:	This product does not contain any chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm.
IIR:	Not listed
State/Province:	State/Province/regional specific regulations have not been determined.

SECTION 16 - OTHER INFORMATION

HMIS Hazard ID:	
Health:	1
Flammability:	0
Physical hazards:	0
NFTA Rating:	
Health:	1
Fire:	0
Reactivity hazard:	0
Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect	
Full Text R-phrases referenced section 3:	R22 Harmful if swallowed. R36/38 Irritating to eyes and skin.

Disclaimer:

The information contained in this SDS is based on data from sources considered to be reliable but Dharma Trading Company does not guarantee the accuracy or completeness thereof. Dharma Trading Company urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.

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Abbreviations:	
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	International carriage of Dangerous goods by Road
AICS	Australian Inventory of Chemical Substances
ATE	Acute Toxicity Estimate
BfR	Bundesinstitut für Risikobewertung recommendations for food contact materials
BCF	Bioconcentration Factor
BOD5	5-day Biochemical Oxygen Demand
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CLP	Classification, Labeling and Packaging regulation
COD	Chemical Oxygen Demand DOT Department of Transportation DSL Domestic Substances List
EINECS	European Inventory of Existing Chemical Substances
ECL	Existing Chemicals List (Korea)
ENCS	Existing and New Chemical Substances Inventory (Japan)
EN 689	Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy.
ERG	Emergency Response Guide
GHS	Globally Harmonized System
HMIS	Hazardous Materials Information System IARC International Agency for Research on Cancer IATA International Air Transport Association
ICAO	International Civil Aviation Organization IDLH Immediately Dangerous to Life and Health IMDG International Maritime Dangerous Goods
LD50	Lethal Dose to 50% of test animal population
MAK	Maximale Arbeitsplatz Konzentration
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
PBT	Persistent, Bioaccumulative and Toxic vPvB Very Persistent and Very Bioaccumulative PEL Permissible exposure limit
PICCS	Philippine Inventory of Commercial Chemical Substances
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemical Substances
RID	International carriage of dangerous goods by Rail SARA Superfund Amendments and Reauthorization Act STEL Short Term Exposure Limit
SVHC	Substance of Very High Concern
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
VOC	Volatile Organic Compound
WGK	Wassergefährdungsklasse (Water Hazard Class) WHMIS Workplace Hazardous Material Identification System