SAFETY DATA SHEET
ALUM (POTASH)

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: ALUM (POTASH)

PRODUCT NO: RM009

SYNONYMS, TRADE NAMES: POTASSIUM ALUMINIUM SULPHATE; POTASH ALUM

SUPPLIER

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EMERGENCY CONTACT NUMBER:

2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCES OR MIXTURE

Classification (EC 1272/2008):

Physical hazards	Not classified
Health hazards	Not classified
Environment hazards	Not classified

Classification (67/548/EEC or 1999/45/EC)

Label elements

EC No 233-141-3

Hazard statement NC Not Classified

Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

3 COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCES

Product name	POTASSIUM ALUMINIUM SULPHATE
REACH registration No	01-2119960162-44-XXXX
REACH registration notes	This product is not classified as hazardous, the information in this datasheet is given for guidance only.
CAS-NO:	7784-24-9
EC NO:	233-141-3

4 FIRST-AID MEASURES

DESCIPTION OF FIRST AID MEASURES

INHALATION

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

INGESTION

Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing..

EYE CONTACT

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

MOST IMPORTANT SYSPTOMS AND EFFECTS BOTH ACUTE AND DELAYED

EYE CONTACT

May cause temporary eye irritation

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NOTES FOR THE DOCTOR

Treat symptomatically

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

The product is not flammable. Use fire-extinguishing media for surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA

Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC HAZARDS ARISING FROM THE SUBSTANCES OR MIXTURE

SPECIAL HAZARDS

Fire creates: Oxides of the following substances Sulphur

HAZARDS COMBUSTION PRODUCTS

Oxides of carbon Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

ADVICE FOR FIREFIGHTERS

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear positive- pressure Self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS PROTECTION EQUIPMENT AND EMERGENCY PROCEDURES

PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this safety data sheet Provide adequate ventilation Avoid inhalation of dust. Avoid contact with skin and eyes

ENVIRONMENTAL PRECAUTIONS

ENVIRONEMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

METHODS FOR CLEANING UP

Avoid generation and spreading of dust. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Collect and place in suitable waste disposal containers and seal securely. For waste disposal see section 13. Flush contaminated area with plenty of water.

REFERENCE TO OTHER SECTIONS

REFERENCE TO OTHER SECTIONS

For personal protection, see section 8. For waste disposal, see Section 13.

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFTY HANDLING

USEAGE PRECAUTIONS

Avoid spilling, Avoid contact with skin and eye Provide adequate ventilation. Avoid handling which leads to dust formation

CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBLITY

STORAGE PRECAUTIONS

Store in tightly-closed, original container in a dry, cool and well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS

Long-term exposure limit (8-hour TWA): WEL 10mg/m^3

WEL = Workplace Exposure Limit

DNEL	Workers-inhalation: long term systemic effects: 13.05 mg/m^3
PNEC	Fresh water; 0.112 mg/I
	Marine water; 0.112mg/I
	Water; 1.1 mg/I

EXPOSURE CONTROLS

PROTECTIVE EQUIPMENT

APPROPRIATE ENGINEERING CONTROLS

Provide adequate ventilation.

EYE/FACE PROTECTION

The following protection should be worn; Chemical splash goggles EN 166

HAND PROTECTION

The most suitable gloves should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough

time of at least 8 hours. Nitrile rubber. Butyl rubber. Rubber (natural, latex). glove thickness (0.11mm) To protect hands from chemicals, gloves should comply with European standard EN374.

OTHER SKIN AND BODY PROTECTION

Wear suitable protective clothing as protection against splashing or contamination

HYGIENE MEASURES

Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

RESPIRATORY PROTECTION

No specific recommendations, protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Wear a respirator fitted with the following cartridge: Particulate filter, type P2 EN 136/140/145/143/149.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid Crystalline powder
Colour:	White
Odour:	Odourless
Odour threshold	No information available
pH	Ph (diluted solution): 2.8-3.50.1
Melting Point	approx. 90^0C
Initial boiling point and range	No information available
Flash point	No information available
Evaporation rate	No information available
Evaporation factor	No Information available
Flammability (solid, gas)	No information available
Upper/Lower flammability or Explosive limits	No information available
Other flammability	No information available
Vapour pressure	No information available
Vapour density	No information available
Relative Density:	1.757 @ 20°C
Bulk Density:	1000 kg/m3
Solubility (ies)	Soluble in water
Partition coefficient	No information available
Auto-ignition temperature	No information available
Decomposition Temperature	> 400^0C
Viscosity	No information available
Explosive properties	No Information available
Explosive under the influence of a flame	No information available
Oxidising properties	No Information available

OTHER INFORMATION

Other information	Not available
Refractive index	No Information available
Particle size	No information available
Molecular weight	No information available
Volatility	No Information available
Saturation concentration	No Information available

Critical temperature No information available
Volatile organic compound No Information available

10 STABILITY AND REACTIVITY

REACTIVITY
REACTIVITY
There are no known reactivity hazards associated with this product.
CHEMICAL STABILITY
STABILITY
Stable at normal ambient temperatures
POSSIBILITY OF HAZARDOUS REACTIONS
POSSIBILTY OF HAZARADOUS REACTIONS Not determined

CONDITIONS TO AVOID
CONDITIONS TO AVOID
Avoid excessive heat for prolonged periods of time
INCOMPATIBLE MATERIALS
MATERIALS TO AVOID Not determined
HAZARDOUS DECOMPOSITION PRODUCTS
HAZARDOUS DECOMPOSITION PRODUCTS
Oxides of the following substances sulphate

11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS
ACUTE TOXICITY –ORAL
Notes (oral LD_{50}) NOAEL 8160 mg/kg Mouse
ACUTE TOXCITY – DERMAL NOAEL >100000 mg/kg,, Mouse
Notes (dermal LD_{50})

ACUTE TOXICITY-INHALATION
Notes (inhalation LC_{50}) NOAEL 13.05 mg/l ,, Mouse

SKIN CORROSION/IRRITATION
Animal data Not irritating

SERIOUS EYE DAMAGE/IRRITATION
Serious eye damage/irritation Not irritating

RESPIRATORY SENSITSATION
Respiratory sensitisation Not sensitising

SKIN SENSITISATION
Skin sensitisation Not sensitising
GEM CELL MUTAGENICITY
Genotoxicity – in vitro Negative

CARCINOGENICITY

Carcinogenicity No information available

REPRODUCTIVE TOXICITY

Reproductive toxicity-fertility No information available

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE

STOT - repeated exposure Based on available data the classification criteria are not met.

SPECIFIC TARGET ORGAN TOXICITY –REPEATED EXOPSURE

STOT-repeated exposure Based on available data the classification criteria are not met.

ASPIRATION HAZARD

Aspiration hazard No information available

INHALATION Dust in high concentrations may irritate respiratory system

INGESTION No harmful effects expected from quantities likely to be ingested by accident

SKIN CONTACT Skin irritation should not occur when used as recommended

EYE CONTACT Particles in the eyes may cause irritation and smarting

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product may affect the acidity (pH) of water which may have hazardous effects to aquatic organisms.

TOXICITY

Toxicity Not considered toxic to fish

Acute toxicity –fish LC_{50} 96 HOURS 110mg/l Pimephales promelas (Fat-head Minnow)

Acute toxicity –aquatic Invertebrates EC_{50} 16 hours 206mg/l Daphnia magna

PERSISTENCE AND DEGRADABILITY

PERSISTENCE AND DEGRADABLITY The product is not biodegradable

BIOACCUMULATIVE POTENTIAL

Partition coefficient No information available

MOBILITY IN SOIL

Mobility The product is soluble in water

RESULTS OF PBT AND vPvB ASSESSMENT

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU Criteria

OTHER ADVERSE EFFECTS

Other adverse effects Not determined

13 DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

General information Waste to be treated as controlled waste.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the Requirements of the local Waste Disposal Authority.

14 TRANSPORT INFORMATION

GENERAL The product is not covered by international regulations on the transport Of dangerous goods (IMDG, IATA ADR/RID)

UN NUMBER Not applicable

UN PROPER SHIPPING NAME Not applicable

TRANSPORT HAZARD CLASS(ES) No transport warning sign required

PACKING GROUP Not applicable

ENIRONMENTAL HAZARDS
Environmentally hazardous
Substance/marine pollutant No

SPECIAL PRECAUUTIONS FOR USER Not applicable

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE
Transport in bulk according to
Annex II of MARPOL 73/78
And the IBC Code

15 REGULATORY INFORMATION

SAFETY HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUNSTANCE OR MIXTURE

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the registration, Evaluation Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification labelling and packaging of substances and Mixtures (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015

CHEMICAL SAFETY ASSESSMENT
A chemical safety assessment has been carried out.

16 OTHER INFORMATION

ABBREVIATIONS AND ACRONYMS USED IN THE SAFTEY DATA SHEET	**ATE**	Acute Toxicity Estimate
	ADR	European Agreement concerning the international Carriage of Dangerous goods by road

ADN	European Agreement concerning the international Carriage of Dangerous Goods by Inland Waterways.
CAS	Chemical Abstracts Service
DNEL	Derived No Effect Level
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
Kow	Octanol-water partition coefficient
LC_{50}	Lethal Concentration to 50% of a test population
LD_{50}	Lethal Dose to 50% of a test population (Median Lethal Dose)
PBT	Persistent Bioaccumulative and Toxic Substance
PNEC	Predicated No Effect Concentration
REACH	Registration Evaluation Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	European Agreement concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative
IARC	International Agency for Research on Cancer
MARPOL	73/78 International Convention for the Prevention of Pollution From ships 1973 as modified by the Protocol of 1978
cATpE	Converted Acute Toxicity Point Estimate
BCF	Bioconcentration Factor
BOD	Biochemical Oxygen Demand
EC_{50}	50% of maximal Effective Concentration
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
LOEC	Lowest Observed Effect Concentration
DMEL	Derived Minimal Effect Level
EL50	Exposure Limit 50
hPa	Hectopascal
LL50	Lethal Loading fifty
OECD	Organisation for Economic Co-operation and Development
POW	Octanol-water partition coefficient
SCBA	self –contained breathing apparatus
STP	Sewage Treatment Plant
VOC	Volatile Organic Compounds

CLASSIFICATION ABBERVIATIONS AND ACRONYMS

Acute Tox = Acute toxicity
Aquatic Acute = Hazardous to the environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

KEY LITERATURE REFERENCES AND

Supplier's information.

SOURCES FOR DATA

REVISION COMMENTS NOTE Lines within the margin indicate significant changes from the Previous revision

RISK PHRASES IN FULL Not classified