# 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. $90^0$C |
| **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** | > $400^0$C |
| **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