RLS CHEMICALS | 149 ELSBURG ROAD - GERMISTON- JHB| +27 11 913 8060 | INFO@REFLECTASGT.CO.ZA | WWW.LABEQUIPSUPPLY.CO.ZA

Material Safety Data Sheets (MSDS)

di-Ammonium Hydrogen Phosphate

Identification of Product

Chemical Code: CHE-A43

Chemical Name: di-Ammonium Hydrogen Phosphate

Chemical Grade: AR

Chemical Formula: $H_9N_2O_4P$

Chemical Weight: 132.06 g/mol

CAS No: 7783-28-0

Chemical Synonyms: Ammonium Phosphate dibasic

Diammonium Hydrogenphosphate

Ammonium Hydrogenphosphate

Hazards Identification

REACH No: No Data Available

Signal Word:

Supplemental Hazard Information: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Additional Hazard Information: This substance contains no components considered to be either persistent, bio-accumulative andtoxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

Hazards statements

Precautionary statements

Composition of Chemical

Chemical Formula: $H_9N_2O_4P$

EC No 1272/2008: No Data Available

First Aid Measures

General Advice: Obtain medical advice if feeling unwell.

If: Inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

If: Skin Contact: Wash off with soap and plenty of water.

If: Eye Contac: Flush eyes with water as a precaution.

If: Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Important Symptoms: The most important known symptoms and effects are described in the labeling section.

Immediate Medical Attention: No Data Available

Firefighting Measures

Extinguishing Media: Use Water spray, Alcohol-resistant foam, Dry chemical or Carbon Dioxide.

Hazards Arising: Nitrogen Oxides, Oxides of Phosphorus

Advice for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Info for Firefighting: No Data Available

Accidental Release Measures

Personal Precautions: Avoid dust formation.
Avoid breathing vapours, mist or gas.

Enviromental Precautions: No special environmental precautions required.

Method for Containment: Sweep up and shovel.
Keep in suitable, closed containers for disposal.

Handling and Storage

Personal Precautions: Provide appropriate exhaust ventilation at places where dust is formed.

Enviromental Precautions: Store in cool place.
Keep container tightly closed in a dry and well-ventilated place.

Exposure Controls | Personal Protection

Derived No Effect Level (DNEL)

Workers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Consumers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Predicted No Effect Concentration (PNEC)

No Data Available

Engineering Controls: General industrial hygiene practice

Eye/Face Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact -
Material: Nitrile rubber. Minimum layer thickness: 0,11 mm.
Break through time: 480 min. Material tested: Dermatril®.

Splash contact -
Material: Nitrile rubber. Minimum layer thickness: 0,11 mm.
Break through time: 480 min. Material tested: Dermatril®.
Data source: KCL GmbH, D-36124, Test method: EN 374.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory Protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Physical and Chemical Properties

Appearance: Colourless crystals to White crystalline powder

Odour: No Data Available

Odour Threshold: No Data Available

pH: 7.5 - 9.0 (132.1 g/l, 25 °C)

Melting Point: Melting point/Range: 155 °C - dec.

Boiling Point: No Data Available

Flash Point: No Data Available

Evaporation: No Data Available

Flammability: No Data Available

Upper/Lower Flammability or Explosive Limits: No Data Available

Vapour pressure: No Data Available

Vapour density: No Data Available

Relative density: 1.620 g/cm3

Water solubility: Soluble

Partition Coefficien: No Data Available

Auto-ignition Temperature: No Data Available

Decomposition Temperature: No Data Available

Viscosity: No Data Available

Explosive properties: No Data Available

Oxidizing properties: No Data Available

Other Safety Info: No Data Available

Stability and Reactivity

Reactivity: No Data Available

Chemical Stability: Stable under recommended storage conditions

Possibility of hazardous reactions: No Data Available

Conditions to Avoid: No Data Available

Incompatible Materials: Strong oxidizing agents, Strong acids, Strong bases, Magnesium

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions - Nitrogen Oxides, Oxides of Phosphorus.

Toxicological Information

Acute Toxicity: LD50 Oral - Rat - 6.500 mg/kg
LD50 Dermal - Rat - male and female -> 5.000 mg/kg (OECD Test Guideline 402)

Skin Corrosion/Irritation: No Data Available

Serious Eye damage | Eye Irritation: No Data Available

Cell Mutagenicity: No Data Available

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No Data Available

Specific Target Organ Toxicity - Single Exposure: No Data Available

Specific Target Organ Toxicity - Repeated Exposure: No Data Available

Aspiration Hazard: No Data Available

Ecological Information

Ecological Toxicity: Toxicity to fish:
LC50 - Pimephales promelas (fathead minnow) - 155 mg/l - 96 h.

Toxicity to daphnia and other aquatic invertebrates:
EC50 - Daphnia (water flea) - 140 mg/l.

Ecological Persistence and degradability: No Data Available

Bioaccumulative Potential: No Data Available

Mobility in Soil: No Data Available

Results of PBT and vPvB Assessment: This substance contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

Other Adverse Effect: No Data Available

Disposal Considerations

Waste Treatment Methods: Product - Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging - Dispose of as unused product.

Transport Information

UN Number: ADR/RID: -
IMDG: -
IATA: -

UN Shipping Hazard: ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

Transport Hazard Class: ADR/RID: -
IMDG: -
IATA: -

Packaging Group: ADR/RID: -
IMDG: -
IATA: -

Enviromental Hazards: ADR/RID: no
IMDG Marine pollutant: no
IATA: no

Special Precautions: No Data Available

Regulatory Information

Safety, Health and environmental regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment: For this product a chemical safety assessment was not carried out.

Additional Info: RTECS: Not Available
To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.