# ADENINE HEMISULFATE

## SECTION 1: PRODUCT IDENTIFICATION

Product Name: Adenine hemisulfate
Product Code: CM 23031
CAS#: 321-30-2
Chemical Formula: $C_{10}H_{12}N_{10}O_4S$
Molecular Formula: 368.34 Synonyms
: 6-Aminopurine

Chemical Formula: KCl

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:
Name: Adenine hemisulfate
Toxicological Data on Ingredients: Acute Tox. 3; Eye Irrit. 2; H301, H319

## SECTION 3: HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008
Acute toxicity, Oral (Category 3), H301
Eye irritation (Category 2), H319

## SECTION 4: FIRSTAID MEASURES

Description of first aid measures
General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled If breathed in: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact: Wash off with soap and plenty of water. Consult a physician.
In case of eye contact: Flush eyes with water as a precaution.
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delay: No data available
Indication of any immediate medical attention and special treatment needed: No data available

## SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture:
Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters:
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers

## SECTION 7: HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls
Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection Safety glasses with side-shields conforming to EN166 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 glove's 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.
Body Protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
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).
Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9: PHYSICAL ANDCHEMICAL PROPERTIES

| | |
|---|---|
| PhysicalstateandappearanceForm | :powder |
| Odour | :Not available |
| Taste | :Not available |
| MolecularWeight | :Not available |
| Colour | :light yellow |
| pH | :Not available |
| BoilingPoint | :Not available |
| MeltingPoint | :205°C |
| CriticalTemperature | :Not available |
| SpecificDensity | :Not Available |
| VaporPressure | :Not Available |
| VaporDensity | :Not available |
| Volatility | :Not Available |
| OdorThreshold | :Not Available |
| Water/OilDist.Coeff. | :Not Available |
| Ionicity(inWater) | :Not Available |
| DispersionProperties | :Not Available |
| Solubility | :Not available |

## SECTION10:STABILITYAND REACTIVITY DATA

Stability: The product is chemically stable under standard ambient conditions (room temperature).
Instability Temperature: Stable under recommended storage conditions
Conditions of Instability: Not available
Incompatibility with various substances: Strong oxidizing agents
Special Remarks on Reactivity: Not available
Hazardous decomposition products Other decomposition products: Not available.

## SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity
Harmful if swallowed.
(in analogy to similar products)
LD50 Intraperitoneal - Rat - 200 mg/kg
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
(in analogy to similar products)
Respiratory or skin sensitization
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
IARC: No ingredient 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

## SECTION 12: ECOLOGICAL INFORMATION

Toxicity
No data available
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/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging: Dispose of as unused product.

## SECTION 14: TRANSPORT INFORMATION

UN number:
ADR/RID: 2811 IMDG: 2811 IATA:2811
UN proper shipping name
ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (Diadenine sulphate)
IMDG: TOXIC SOLID, ORGANIC, N.O.S. (Diadenine sulphate)
IATA: TOXIC SOLID, ORGANIC, N.O.S. (Diadenine sulphate)
Transport hazard class (es):
ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
Packaging group:
ADR/RID: III IMDG: III IATA: III
Environmental hazards:
ADR/RID: No IMDG Marine pollutant:No IATA: No

## SECTION 15: OTHER REGULATORY INFORMATION

Regulatory information: This safety datasheet complies with the requirements of Regulation (EC) No.1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
Chemical Safety Assessment For this product a chemical safety assessment was not carried out

## SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.
H301 Toxic if swallowed.
H319 Causes serious eye irritation.
Other Special Considerations: Not available.

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user‘s obligation to investigate and determine the suitability of the information for their particular purpose.