

ADENINE 99%

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: ADENINE
Product Code: CM 23030
CAS#: 73-24-5
Chemical Formula: $C_5H_5N_5$
Molecular Formula: 135.13

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Name: ADENINE
Chemical Formula: $C_5H_5N_5$
Molecular Formula: 135.13

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Acute toxicity, Oral (Category 3)
Classification according to EU Directives 67/548/EEC or
1999/45/EC Harmful if swallowed.
Other hazards - none

SECTION 4: FIRST AID MEASURES

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact
Wash off with soap and plenty of water.
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.

SECTION 5: FIRE AND EXPLOSION DATA

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 (NO_x), Sulphur oxides, Sodium oxides
Advice for firefighters
Wear self contained breathing apparatus for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas.



Environmental precautions
 Do not let product enter drains.
 Methods and materials for containment and cleaning up
 Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions:
 Keep away from heat. Keep away from sources of ignition.
 Storage:
 Store in cool, dry place in closed containers

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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 glove's outer surface) to avoid skin contact with this product.
 Respiratory protection
 Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 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).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|-------------------------------|---|--------------------------------------|
| Physical state and appearance | : | Whitetooff-white crystalline powder. |
| Odor | : | Not available |
| Taste | : | Not available |
| Molecular Weight | : | Not available |
| Color | : | Not available |
| pH (10% soln/water) | : | Not available |
| Boiling Point | : | Not available |
| Melting Point | : | Not available |
| Critical Temperature | : | Not available |
| Specific Gravity | : | Not available |
| Vapor Pressure | : | Not applicable |
| Vapor Density | : | Not available |
| Volatility | : | Not available |
| Odor Threshold | : | Not available |
| Water/Oil Dist. Coeff. | : | Not available |
| Ionicity (in Water) | : | Not available |
| Dispersion Properties | : | Not available |
| Solubility | : | Not available |

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable under recommended storage conditions.



Instability Temperature: Not available.
Conditions of Instability: Excess heat.
Incompatibility with various substances: Strong oxidizing agents
Special Remarks on Reactivity: Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 Oral - rat - 227 mg/kg
Skin corrosion/irritation: Not available.
Serious eye damage/eye irritation: Not available.
Respiratory or skin sensitization: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Specific target organ toxicity - single exposure: Not available.
Specific target organ toxicity - repeated exposure: Not available.
Aspiration hazard: Not available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Not available.
Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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. | | |
| IMDG: TOXIC SOLID, ORGANIC, N.O.S. | | |
| IATA: Toxic solid, organic, n.o.s. | | |
| 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

Safety, health and environmental regulations/legislation specific for the substance or mixture
Not available.
Chemical Safety Assessment: Not available.

SECTION 16: OTHER INFORMATION



References: Full text of H AND R-Statements.
Not Applicable
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.

