

JAY ORGANICS

Plot no.-456, Phase-II, G.I.D.C., Vatva, Ahmedabad, INDIA-382445.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT

Product name: Picramic Acid (wetted with ca. 25% Water, containing 25g on a dry weight basis)

Trade Names/Synonyms: 4,6-Dinitro-2-aminophenol; 1-Amino-2-hydroxy-3,5-dinitrobenzene; 2,4-Dinitro-6-aminophenol; 2-Amino-4,6-dinitrophenol; 6-Amino-2,4-dinitrophenol

CAS NO.: 96-91-3

Molecular Weight: 199.12

Chemical Formula: C₆H₅N₃O₅

2. HAZARDS IDENTIFICATION

GHS classification:

PHYSICAL HAZARDS: Category 1

Flammable solids

Health Hazards: Category 4

Acute toxicity (Oral)

Acute toxicity (Dermal): Category 4

Acute toxicity (Inhalation): Category 4

Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 2A

Skin sensitization: Category 1

ENVIRONMENTAL HAZARDS:

Acute aquatic hazard: Category 3

Long-term aquatic hazard: Category 3

GHS label elements, including precautionary statements

Signal word Danger

Hazard statements

Flammable solid
Harmful if swallowed, in contact with skin or if inhaled
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Harmful to aquatic life
Harmful to aquatic life with long lasting effects

Precautionary statements:

**Picramic Acid (wetted with ca. 25% Water,
containing 25g on a dry weight basis)**

[Prevention]

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting equipment.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wash hands thoroughly after handling.
Wear protective gloves and eye/face protection.

[Response]

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Gently wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Call a POISON CENTER or doctor/physician if you feel unwell.

[Disposal]

Dispose of contents/container through a waste management company authorized by the local government.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Components:

Picramic Acid (wetted with ca. 25% Water, containing 25g on a dry weight basis)

Percent: >98.0%(T)

CAS Number: 96-91-3

Synonyms:

2-Amino-4,6-dinitrophenol (wetted with ca. 25% Water, containing 25g on a dry weight basis)

Chemical Formula: C₆H₅N₃O₅

4. FIRST AID MEASURES

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact:

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Ingestion:

Protection of first-aiders:

A rescuer should wear personal protective equipment, such as rubber gloves and air- tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Specific hazards arising Explosion risk in case of fire. Fight fire remotely due to the risk of explosion from the chemical:

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Precautions for firefighters:

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

Picramic Acid (wetted with ca. 25% Water, containing 25g on a dry weight basis)

5. FIRE-FIGHTING MEASURES

Special protective equipment for firefighters:

When extinguishing fire, be sure to wear personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Use personal protective equipment. Keep people away from and upwind of spill/leak. protective equipment and Entry to non-involved personnel should be controlled around the leakage area by emergency procedures: roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for Sweep dust to collect it into an airtight container, taking care not to disperse it. containment and cleaning Adhered or collected material should be promptly disposed of, in accordance with up: appropriate laws and regulations.

Prevention of secondary Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Precautions for safe handling :

Handling is performed in a well ventilated place. Wear suitable protective equipment.

Technical measures:

Be careful not to cause leakage, overflow, or dispersion. Steam should not be generated unnecessarily. Keep away from heat/sparks/open flame/hot surfaces. –No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Avoid

shock and friction. Wash hands and face before breaks and immediately after handling the product. Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling:

Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions:

Keep container tightly closed. Store in a cool and dark place.

Be sure not to give the container unexpected impacts, such as falling down or falling off. Keep wetted with water for desensitized.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:

Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Safety glasses. A face-shield, if the situation requires.

Skin and body protection: Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):

Form: Solid Crystal- Powder

Colour: Deep yellow red

Odour: No data available

Melting point/freezing point:173°C

Boiling point/range:

Flash point: No data available

Flammability or explosive

limits:

Lower: No data available

Upper: No data available

Relative density: No data available

Solubility(ies):

Picramic Acid (wetted with ca. 25% Water, containing 25g on a dry weight basis)

[Water] Insoluble

[Other solvents]

Soluble: Alcohols, Benzene, Aniline

Very slightly Ether, Chloroform

soluble:

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous May explosively decompose on heating, shock, friction, etc.

reactions: Heat, Spark, Open flame, Static discharge, Shock, Friction

Conditions to avoid:

Incompatible materials: Oxidizing agents, Strong bases, Metals

Hazardous products: decomposition Carbon monoxide, Carbon dioxide, Nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

ipr-pgn LDLo:140 mg/kg

ivn-dog LDLo:150 mg/kg

Skin corrosion/irritation: No data available

Serious eye: No data available

damage/irritation:

Germ cell mutagenicity: mmo-sat 5 umol/plate (+/-S9)

Carcinogenicity:**IARC =** No data available**NTP =** No data available**Reproductive toxicity:** No data available**RTECS Number:** SJ5800000

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available**Fish:** No data available**Crustacea:****Algae:** No data available**Persistence / degradability:** No data available**Bioaccumulative :** No data available**potential(BCF):****Mobility in soil:** No data available**Log Pow:** No data available**Soil adsorption (Koc):** No data available**Henry's Law****constant(PaM³/mol):**

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US)

Proper shipping name: 2-Amino-4,6-dinitrophenol, wetted

Hazards Class: 4.1: Flammable solid.

UN-No: UN3317

Packing group: I

IATA

Proper shipping name: 2-Amino-4,6-dinitrophenol, wetted

Hazards Class: 4.1: Flammable solid.

UN-No: UN3317

Packing group: I

IMDG

Proper shipping name: 2-Amino-4,6-dinitrophenol, wetted

Hazards Class: 4.1: Flammable solid.

UN-No: UN3317

Packing group: I

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15. REGULATORY INFORMATION

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002 and revised on February 16, 2011):

Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

The list of a dangerous chemical(2002)/CN-No.: 41521

16. ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Jay Organics be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Jay Organics has been advised of the possibility of such damages.