

JAY ORGANICS

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

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT

Product Name: 2,5-Diaminotoluene sulphate

Synonyms: 2-Methyl-p-phenylenediaminesulfate salt; 2,5-Toluenediamine sulfat

CAS No. : 615-50-9

Index No. : 612-030-00-7

Recommended Use : Laboratory Chemicals

2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Formula : C₇H₁₂N₂O₄S

Molecular Weight : 220.25

Ec No : 210-431-8

Index No. : 312-030-00-7

Hazardous Ingrediete According To Regulation (Ec) No. 1272/2008

Component : 2- Methyl-P-Phenylene Diamine Sulphate

Classification :

- 1) Aquatic Chronic
- 2) H301, H312 + H332, H317, H411
- 3) Acute Tox
- 4) Skin Sens

Concentration : <= 100%

Hazardous Ingrediete According To Directive 1999/45/Ec

Component : 2- Methyl-P-Phenylene Diamine Sulphate

Classification : T, N, R20/21 - R25 - R43 - R51/53

Concentration : <= 100%

3. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity : Category 3
Acute dermal toxicity : Category 4
Acute Inhalation Toxicity - Dusts and Mists : Category 4
Skin Sensitization : Category 1
Chronic aquatic toxicity : Category 2

Label Elements :

Pictogram



Signal Word : Danger

Hazard Statements

H301 : Toxic if swallowed
H312+H332 : Harmful in contact with skin or if inhaled
H317 : May cause an allergic skin reaction
H411 : Toxic to aquatic life with long lasting effects

Precautionary :

Statements

Prevention : Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Contaminated work clothing should not be allowed out of the workplace

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

Inhalation : feel unwell

Skin : If On Skin: Wash with plenty of soap and water
Call a POISON CENTER or doctor/physician if you feel unwell
Wash contaminated clothing before reuse
If skin irritation or rash occurs: Get medical advice/attention

Ingestion : Rinse mouth.

Storage : Store locked up

Disposal : Dispose of contents/container to an approved waste disposal plant

4. FIRST AID MEASURES

Eye Contact :

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

Skin Contact :

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.

Inhalation :

Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

Ingestion : Call a physician immediately. Clean mouth with water.

Most important symptoms/effects :

May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician : Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media :

Water spray. Carbon dioxide (CO₂). Dry chemical, chemical foam.

Unsuitable Extinguishing Media : No information available

Flash Point : No information available

Method : No information available

Auto ignition Temperature : No information available

Explosion Limits

Upper : No data available

Lower : No data available

Sensitivity to Mechanical Impact : No information available

Sensitivity to Static Discharge : No information available

Arising from the Chemical :

Keep product and empty container away from heat and sources of ignition

Hazardous Combustion Products :

Nitrogen oxides (NO_x) Carbon monoxide (CO) Carbon dioxide (CO₂) Sulfur oxides

Protective Equipment and Precautions for Firefighters :

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions :

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate Ventilation, Evacuate personnel to safe area. 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 for Containment and Clean :

Wear self-contained breathing apparatus and protective suit. Sweep up or vacuum up **Up** spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

7. HANDLING AND STORAGE

Handling :

Do not breathe dust. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only in area provided with appropriate exhaust ventilation.

Storage :

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines :

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures :

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment :

Eye/face Protection :

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection :

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection :

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures :

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Powder Solid

Appearance : Light Brown

Odor : Odorless

Odor Threshold : No information available

Ph : No information available

Melting Point/Range : > 300 °C / 572 °F

Boiling Point/Range : No information available

Flash Point : No information available

Evaporation Rate : No information available

Flammability (solid,gas) : No information available

Flammability or explosive limits :

Upper : No data available

Lower : No data available

Vapor Pressure: No information available

Vapor Density : No information available

Relative Density : No information available

Solubility : No information available

Partition coefficient; n-octanol/water : No data available

Autoignition Temperature : No information available

Decomposition Temperature : > 250°C

Viscosity : No information available

Molecular Formula : C7 H10 N2 . H2 S O4

Molecular Weight : 220.25

10. STABILITY AND REACTIVITY

Reactive Hazard : None known, based on information available

Stability : Stable under normal conditions.

Conditions to Avoid : Incompatible products.

Incompatible : Strong oxidizing agents, Strong bases

Materials:

Hazardous Decomposition Products :

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂), Sulfur oxides

Hazardous Polymerization : No information available.

Hazardous Reactions : None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity : LD50 Oral - Rat - 98 mg/kg

Toxicologically Synergistic : No information available

Irritation : No information available

Sensitization : May cause sensitization by skin contact

Carcinogenicity :

IARC : No Component of this product present at levwls greater than or equal to 1% is identified as probable, possible or confirmed human carcinogen by IARC

Mutagenic Effects : No information available

Reproductive Effects : No information available

Developmental Effects : No information available

Teratogenicity : No information available

STOT - single exposure : None known

STOT - repeated exposure : None known

Aspiration hazard : No information available

Symptoms / effects,both acute and delayed :

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information : No information available

Other Adverse Effects : See actual entry in RTECS for complete information.

12 . ECOLOGICAL INFORMATION ECOTOXICITY

Ecotoxicity : Do not empty into drains.

Persistence and Degradability : No information available

Bioaccumulation/ Accumulation : No information available

Mobility : No information available

13 . DISPOSAL CONSIDERATIONS

Waste Disposal Methods :

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14 . TRANSPORT INFORMATION

UN number

ADR/RID: 2811

IMDG: 2811

IATA: 2811

UN proper shipping name

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (2-Methyl-p-phenylenediamine sulfate)

IMDG: TOXIC SOLID, ORGANIC, N.O.S. (2-Methyl-p-phenylenediamine sulfate)

IATA: Toxic solid, organic, n.o.s. (2-Methyl-p-phenylenediamine sulfate)

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

Special precautions for user

No data available

15 . REGULATORY INFORMATION

International Inventories

International Inventories : 1,4-Benzenediamine, 2-methyl-, sulfate (1:1)

TSCA : X

DSL : -

NDSL : X

EINECS : 210-431-8

ELINCS : -

NLP : -

PICCS : X

ENCS : X

AICS : X

IECSC : X

KECL : X

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA. F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA. S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) : Not applicable

SARA 313 : Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard : Yes

Chronic Health Hazard : No

Fire Hazard : No

Sudden Release of Pressure Hazard : No

Reactive Hazard : No

Clean Water Act : Not applicable

Clean Air Act : Not applicable

OSHA Occupational Safety and Health Administration : Not applicable

CERCLA : Not applicable

California Proposition 65 : This product does not contain any Proposition 65 chemicals

State Right-to-Know : Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant : N
DOT Severe Marine Pollutant : N

U.S. Department of Homeland Security :_This product does not contain any DHS chemicals.

Other International Regulations :

Mexico – Grade : No information available

Canada :

Product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class :

D1A WHMIS Hazard Class D1A Very toxic materials
D2B Toxic materials

16 . ADDITIONAL INFORMATION MSDS

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.