

JAY ORGANICS

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

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT

Trade Name: P-Phenylenediamine Sulphate

Synonyms: 1,4-Diaminobenzene Sulfate, 1,4-Benzenediaminesulphate

2. COMPOSITION, INFORMATION ON INGREDIENTS

Component: P-Phenylenediamine Sulphate

Cas Number: 16245-77-5

Molecular Formula: C₆H₁₀N₂O₄S

Ec Number (Einecs): 204-375-1

Percentage: 99 %

Hazard Symbols: T

Risk Phrases: 23/24/25

3 . HAZARDS IDENTIFICATION

Emergency Overview

Toxic by inhalation, in contact with skin and if swallowed. Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. Toxic in contact with skin.

Ingestion: May cause irritation of the digestive tract. Poison by ingestion.

Inhalation: May cause respiratory tract irritation. Toxic if inhaled.

Chronic: Not available.

4 . FIRST AID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Wash mouth out with water.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes To Physician:

5 . FIRE FIGHTING MEASURES

General Information:

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

Extinguishing Media: Use carbon dioxide or dry chemical.

6 . ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

7 . HANDLING AND STORAGE

Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container.

8 . EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

Cas# 16245-77-5:

Personal Protective Equipment

Eyes: Not Available.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators:

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.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: Off-White To Beige

Odor: Not Available.

Ph: Not Available.

Vapor Pressure: Not Available.

Viscosity: Not Available.

Boiling Point: Not Available.

Freezing/Melting Point: Not Available.

Autoignition Temperature: Not Available.

Flash Point: Not Available.

Explosion Limits, Lower: Not Available.

Explosion Limits, Upper: Not Available.

Decomposition Temperature:

Solubility In Water:

Specific Gravity/Density:

Molecular Formula: C6h10n2o4s

Molecular Weight: 206.22

10 . STABILITY AND REACTIVITY

Chemical Stability: Not Available.

Conditions To Avoid: Incompatible materials, exposure to moist air or water.

Incompatibilities With Other Materials:

Acids, strong oxidizing agents, acetic anhydride, acid chlorides, chloroformates.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide, sulfur oxides (SOx), including sulfur oxide and sulfur dioxide.

Hazardous Polymerization: Has not been reported

11 . TOXICOLOGICAL INFORMATION

Rtecs#: Cas# 16245-77-5 Unlisted.

Ld50/Lc50: Not Available.

Carcinogenicity: P-Phenylenediamine Sulfate - Not listed by ACGIH, IARC, or NTP.

12 . ECOLOGICAL INFORMATION

Other: No information available.

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

14 . TRANSPORT INFORMATION

DOT

UN-No: UN2811
Hazard Class: 6.1
Packing Group: III

TDG

UN-No: UN2811
Hazard Class: 6.1
Packing Group: III

IATA

UN-No: 2811
Hazard Class: 6.1
Packing Group: III

IMDG/IMO

UN-No: 2811
Hazard Class: 6.1
Packing Group: III

15 . REGULATORY INFORMATION

European/International Regulations: European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases: R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

Safety Phrases: S 28A After contact with skin, wash immediately with plenty of water. S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (WATER DANGER/PROTECTION)

CAS# 16245-77-5: 2

CANADA

CAS# 16245-77-5 is listed on Canada's DSL List.

CAS# 16245-77-5 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 16245-77-5 is listed on the TSCA inventory.

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 way shall the company 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 the company has been advised of the possibility of such damages.