



MATERIAL SAFETY DATA SHEET

DATE: FEB 1, 2020

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Purified Terephthalic Acid (PTA)
HMIS/NFPA Codes: Health: 0 Fire: 1 Reactivity: 0
Manufacturer: Zhejiang Yisheng Petrochemical CO., LTD.
Address: NO. 8, Gangkou Road, Xiaogang, Beilun District,
Ningbo, Zhejiang Province, China
Emergency Call: 0574-86189083

2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Name: Purified Terephthalic Acid (PTA)
Synonym: 1, 4-Benzenedicarboxylic Acid
Percentage: 100%
CAS No.: 100-21-0

3. HAZARDS IDENTIFICATION

Appearance: The fact that it is a crystalline solid and have low water solubility may help to reduce the local effect.
Low toxicity.

Potential Health Effects:

Eye Contact: May causes eye irritation.

Skin Contact: May causes slight skin irritation.

Skin Absorption: No evidence of systemic effects.

Ingestion: No data available.

Inhalation: May causes irritation of upper respiratory tract.

4. FIRST AID MEASURES

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

Skins: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get



medical aid immediately.

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

Notes to Physician: Treat symptomatically and supportively.

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. During a fire, irritating highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water or foam may cause frothing. Use carbon-dioxide or dry chemical.

Flash Point: 260°C

Auto Ignition Temperature: 496°C

Explosion Limits in Air:

Lower: 50 g/m³

Upper: Not available.

Fire Fighting Procedures: Wear respiratory protection.

Unusual Fire and Explosion Hazards: Oxidation of p-xylene with nitric acid under pressure in manufacture of terephthalic acid carries explosion hazards in the autoclaves and condensing systems.

NFPA rating: Health: 0; Flammability: 1; Instability: 0.

6. ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicates in section of 'Exposure Control, Personal Protection'

Spills/Leaks: Clean up spills immediately, observing precautions in the protective equipment section. Sweep up, then place into a suitable container for disposal.

Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. Keep container tightly closed avoid ingestion and inhalation.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Country specific exposure limits have not been established or are not applicable



unless listed below.

U.S. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 10mg/m³

U.S. California Code of Regulations, Title 8, Section 5155, Airborne Contaminants

Time Weighted Average (TWA): Permissible Exposure Limited (PEL): 10mg/m³

Ventilation Requirements: Local exhaust, general ventilation

Respiratory Protection: Dust mask

Hand Protection: Gloves

Eye Protection: Goggles

Other Protection Equipment: Eye-baths

9. PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C₆H₄(COOH)₂

Molecular Weight: 166.0396

Physical State: Solid

Appearance: White crystals, needles or powder

Odor: Odorless

Vapor Pressure: <0.01mmHg at 20 °C

Melting Point: >300 °C

Decomposition Temperature: >400 °C

Solubility: 16mg/L in water

Density: 1.510g

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, strong oxidants.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, acrid smoke and fume

11. TOXICOLOGICAL INFORMATION

Acute toxicity data, if available, are listed below. Additional toxicity data may be available on request.

Oral LD-50: (rat) >6,400 mg/kg (highest dose tested)

Oral LD-50: (mouse) 3,200-6,400 mg/kg

Dermal LD-50: (guinea pig) >5.000 mg/kg (highest dose tested)

Skin Irritation: (guinea pig) slight

Eye Irritation: (rabbit) slight

Skin Sensitization: (guinea pig) none



12. ECOLOGICAL INFORMATION

Acute toxicity data, if available, are listed below. Additional toxicity data may be available on request.

Acute Aquatic Effects Data:

96h LC-50(fathead minnow):	>100mg/L (highest concentration tested)
96h LC-50(daphnid):	>100mg/L (highest concentration tested)
96h LC-50(flatworm):	>100mg/L (highest concentration tested)
96h LC-50(ramshorn snail):	>100mg/L (highest concentration tested)

13. DISPOSAL CONSIDERATIONS

Chemical waste generator must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR parts 261.3. Additionally, waste generator must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

Important notes: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin destination. Consult your company's Hazardous Materials/Dangerous Good expert for information specific to your situation.

DOT (USA): Class not regulated.

Sea-IMDG: Class not regulated.

Air-ICAO: Class not regulated.

15. REGULATION INFORMATION

US FEDERAL

TSCA

CAS No.: 100-21-0 is listed on the TSCA inventory.

Health and Safety Reporting List

None of the chemicals are on the Health and Safety Reporting list.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12B

None of the chemicals are listed under TSCA Section 12B.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)



None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS No.: 100-21-0: Acute.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

State

CAS No.:100-21-0 can be found on the following state right to know lists:

New Jersey, Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed

European/ International Regulations

European Labeling in Accordance with EC Directives

Hazardous Symbols:

XI

Risk Phrases

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS No.:100-21-0: 0

Canada – DSL/NDSL

CAS No.:100-21-0 is listed on Canada's OSL list.

Canada - WHMIS

This product has a WHMIS classification of D2B.

Canadian Ingredient Disclosure List

CAS No.:100-21-0 is list on the Canadian Ingredient Disclosure List

16. ADDITIONAL INFORMATION

The information contained herein is based on current knowledge and experience;



no responsibility is accepted that the information is sufficient in all cases. Users should consider these data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment.