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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: Pivalic Acid **Product code:** P0461

Company: TCI (Shanghai) DEVELOPMENT CO., LTD.

Address: No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China

Responsible Department: Sales Department +86-(0)21-67121386 +86-(0)21-67121385 e-mail: sales@tcishanghai.com.cn

Revision number: 1

2. HAZARDS IDENTIFICATION

Classification of the GHS PHYSICAL HAZARDS Flammable liquids

Flammable liquids Category 4
Corrosive to metals Category 1
HEALTH HAZARDS

Acute toxicity (Oral)
Category 4
Acute toxicity (Dermal)
Category 4
Skin corrosion/irritation
Serious eye damage/eye irritation
Category 1
ENVIRONMENTAL HAZARDS
Category 1
Not classified

GHS label elements

Pictograms or hazard symbols





Signal word Danger

Hazard statement Combustible liquid

May be corrosive to metals

Harmful in contact with skin and if swallowed Causes severe skin burns and eye damage

Precautionary statements

[Prevention] Keep away from flames and hot surfaces.

Keep only in original container.

Do not breathe.

Do not eat, drink or smoke when using this product.

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.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

Wash contaminated clothing before reuse.

Immediately call a POISON CENTER or doctor/physician.

Absorb spillage to prevent material damage.

2. HAZARDS IDENTIFICATION

Store in a well-ventilated place. Keep cool. [Storage]

Store locked up.

Dispose of contents/container through a waste management company authorized by [Disposal]

the local government

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance Component(s): Pivalic Acid Percent: >99.0%(GC) **CAS Number:** 75-98-9

Synonyms: 2,2-Dimethylpropionic Acid, Trimethylacetic Acid

Chemical Formula: C₅H₁₀O₂

4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of Skin contact:

soap and water. Immediately call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT Ingestion:

induce vomiting.

cough, sore throat, burning sensation, redness Symptoms/effects:

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 methods: 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: Remove movable

containers if safe to do so.

Special protective

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

equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use extra personal protective equipment (P3 filter respirator for toxic particles). Keep people away from and upwind of spill/leak. Entry to non-involved personnel should

be controlled around the leakage area by roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for containment and cleaning

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with

appropriate laws and regulations.

Prevention of secondary

Remove all sources of ignition. Fire-extinguishing devices should be prepared in

hazards:

case of a fire. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE Handling

Technical measures:

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

Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a closed system, ventilation.

Advice on safe handling: Avoid contact with skin, eyes and clothing.

Use corrosive resistant equipment.

7. HANDLING AND STORAGE

Storage

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Law is followed. Keep only in original container.

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, self-contained breathing apparatus(SCBA), supplied air respirator,

etc. Use respirators approved under appropriate government standards and follow

local and national regulations.

Hand protection: Impervious gloves.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid crystal

Color: White - Almost white

Odor: Pungent

pH: No data available **Melting point/freezing point:** 34°C (Freezing point)

Boiling Point/Range: 164 °C **Flash Point:** 64°C

Explosive limits

Lower:No data availableUpper:No data availableVapor Pressure:0.1kPa/20°C

Vapor Density: 3.5

Density: No data available

Solubility: Very soluble in : Alcohol Ether

Slightly soluble in: Water (2.5g/100mL 20°C)

 $\log Pow = 1.4$

10. STABILITY AND REACTIVITY

Stability: Stable under proper conditions.

Reactivity: No special reactivity has been reported.

Incompartible materials: oxidizing agents, bases, metals
Hazardous Decomposition Carbon monoxide, Carbon dioxide

Products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: skn-rat LD50:1900 mg/kg

orl-rat LD50:900 mg/kg

Skin corrosion/irritation:No data availableSerious eyeNo data available

damage/irritation:

Germ cell mutagenicity: No data available

Carcinogenicity: skn-mus TDLo:188 mg/kg/47W-I

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
RTECS Number: TO7700000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: No data available
Crustacea: No data available
Algae: No data available
Persistence / degradability: No data available

Bioaccumulative 0.2 - 1.2 (conc. 1 mg/L), <2.3 (conc. 0.1 mg/L)

potential(BCF): Mobillity in soil

log Pow:1.4Soil adsorption (Koc):818Henry's Law0.1

constant(PaM³/mol):

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class: 8: Corrosive.

UN-No: 3261

Proper shipping name: Corrosive solid, acidic, organic, n.o.s.

Packing group:

15. REGULATORY INFORMATION

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. OTHER INFORMATION

The reference company name of written contents

Company: TCI (Shanghai) DEVELOPMENT CO., LTD.

Address: No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China

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