

M A T E R I A L S A F E T Y D A T A S H E E T

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 Ibaraki-ken, Japan 319-1541
 Charge Department: Isohara Plant Quality Control Department
 Responsibility for MSDS: Quality Control Manager Masanobu Yamagata
 MSDS Preparation Date July 1, 2007

Trade Name	PYRUVIC ACID
Name	PYRUVIC ACID (2-OXOPROPANOIC ACID)
Contents	97.0 % up
Formula	CH ₃ COCOOH
MITI No.	(2)-1473 (Law Concerning Examination and Regulation of Manufacture, etc., of Chemical Substances)
CAS No.	127-17-3

First Aid 1) 2)

Skin Contact

Immediately flush skin with plenty of water or tepid water.

Eye Contact

Immediately flush eyes with plenty of water at least 15 minutes.

Immediately remove contact lenses if wore.

If irritation persists, call a physician.

Inhalation

Immediately remove to fresh air.

If breathing is difficult, give oxygen, call a physician.

Ingestion

If swallowed, give large quantities of water or solution of salt.

Call a physician immediately.

Fire Fighting Measures

Fire Extinguish

Remove a source of fire. Use a fire extinguisher.

Cool the tanks and houses with water spray to prevent from spreading fire. Fire fighting must be done at the windward side.

Wear the respiratory protector if need.

Extinguishing Media

Dry Chemicals, Foam.

Leakage

Wear chemical splash goggles, rubber boots and rubber gloves.
Neutralized the materials with sodium carbonate or sodium hydrogencarbonate.
Pack a absorbent material into a container after absorbing neutralized solution with sand or diatomaceous earth.
Clean up the leaked place with large quantities of water.
Treatment, disposal must be in accordance with applicable local regulations.

Handling and Storage**Handling**

Wear protective clothing to prevent skin contact because of acid liquid.

Storage

Keep container tightly closed.
Store in areas shielded the light, and in cold place.
Take care not to be broken the bottle, if stored in a glass bottle
Keep away from strong bases in storage areas.

Exposure Controls**Protection**

Wear protective clothing, safety glasses, face shield and rubber gloves.
Set up safety shower, hands washer and eyes washer nearby handling the materials. Indicate the positions distinctly.

Physical And Chemical Properties 2) 3) 4) 5)

Appearance Slightly yellowish clear liquid, characteristic odor
Boiling Point 165°C (dec.) / 54°C (10mmHg)
Evaporation Rate 0.089 (Butyl Acetate = 1)
Melting Point 13.6°C
Specific Gravity · 1.269
Solubility Soluble in water, alcohol

Hazards Information 2) 3) 4) 5) 6)

Flash Point 102°C (Cleveland open cup)
Instability
Reactivity Exothermic reaction with alkaline substances.

Toxicological Information (Health Hazards Information) 5)

LD₅₀ 2.1 g/kg bw. (rat, oral)

Ecological Information

No data available

Disposal Information

Burn up absorbent sand gradually in the opened incinerator after absorbing the materials, or burn up the materials directly in the incinerator through atomizer.

Treatment, storage, transportation, and disposal must be in accordance with local regulations.

Transport Information

The materials transportation by vehicles, the sender serves deliverers with instructions for safe handling.

In transportation confirm leakless of the container, and load the materials not to upset, fall and damage.

Secure preventing the load from falling.

Regulatory Information

JAPAN Hazardous Class 4 Petroleum 3 (soluble in water)
(The Law of Prevention and Extinction of Fires)

Additional Information**Inquiry about informations**

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References

- 1) The Sigma-Aldrich Library of Chemical Safety Data
Edition II ; Robert E. Lenga
 - 2) "The Handbook of Prevention for Dangerous Substances
Accident and Emergencies"
KOBKAINAN BOSHIKENKYUKAI published by SEIZANDO
(Japanese)
 - 3) "The Guide to Prevention of Chemical Accidents I "
Japan Chemical Association published by MARUZEN (Japanese)
 - 4) "The Handbook of Organic Solvents"
Matuda et al. public Laboratory (Japanese)
 - 5) "Kagaku Benran Kisoheh" 4th edition
Japan Chemical Association published by MARUZEN (Japanese)
 - 6) Unpublished data(for Company use :Japanese)
 - 7) Report of Authorized public Laboratory (Japanese)
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While MSDS presented here is correct and reliable to the best of our knowledge and belief, because we do not control any applications and conditions of use, they are given without guarantee, and we assume no responsibility with respect thereto.

The information on products is intended for common products use, so care for extraordinary handling.

End of MSDS