

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: (S)-Glycidol
Synonyms:
Company Identification: PI Chemicals Ltd.
5rd Floor, 88 Cailun Road
Zhangjiang Hi-Tech Park
Pudong New Area, Shanghai China, 201203
Telephone Number: 86-21-58953700
Fax Number: 86-21-58953701

Section 2 - Product Information

Catalog Number: PI-10359
CAS Number: 60456-23-7
MDL Number: MFCD00074874
EC Number: Not available
Purity: 98%

Section 3 - Physical and Chemical Properties

Physical state: Liquid
Color: Colorless to light yellow
Odor: Not available
Molecular Formula: C₃H₆O₂
Molecular Weight: 74.08
Freezing/Melting Point: Not available
Boiling Point: 160-164 °C
Flash Point: 66 °C - closed cup
Autoignition Temperature: Not available
Refractive Index (n_D20): Not available
Density: 1.116 g/mL at 20 °C(lit.)
Decomposition Temperature: Not available
Solubility: Not available

Section 4 - Hazards Identification

Eye: Causes eye irritation.

<i>Skin:</i>	Causes skin irritation. Harmful if absorbed through the skin.
<i>Ingestion:</i>	May cause irritation of the digestive tract. Toxic if swallowed.
<i>Inhalation:</i>	May be harmful if inhaled. Causes respiratory tract irritation.

Section 5 - First Aid Measures

<i>Eye:</i>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<i>Skin:</i>	Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.
<i>Ingestion:</i>	Get medical aid immediately. Wash mouth out with water.
<i>Inhalation:</i>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Section 6 - Stability and Reactivity

<i>Chemical Stability:</i>	Stable under recommended temperatures and pressures.
<i>Materials to avoid:</i>	Strong oxidizing agents, Strong acids.
<i>Conditions to Avoid:</i>	Incompatible materials.
<i>Hazardous Decomposition Products:</i>	Carbon oxides.
<i>Hazardous Polymerization:</i>	Has not been reported.

Section 7 - Handling and Storage

<i>Handling:</i>	Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment.
<i>Storage:</i>	Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place.

Section 8 - Personal Protection

<i>Eyes:</i>	Wear appropriate protective eyeglasses.
<i>Skin:</i>	Wear appropriate protective gloves to prevent skin exposure.
<i>Clothing:</i>	Wear appropriate protective clothing to prevent skin exposure.
<i>Respirators:</i>	Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Fire and Explosion Hazard Data

<i>General Information:</i>	As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin
-----------------------------	---

and eyes.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 10 - 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.

Section 11 - Toxicological Information

RTECS#: CAS# 60456-23-7: RR0508100.

LD50/LC50: RTECS: Not available.

Carcinogenicity: (S)-Glycidol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Environmental information

Not available

Section 13 - Disposal Consideration

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Section 14 - Transport Information

IATA: UN-Number: 2810, Class: 6.1, Packing group: III.

IMO: UN-Number: 2810, Class: 6.1, Packing group: III.

RID/ADR: UN-Number: 2810, Class: 6.1, Packing group: III.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Toxic

Indication of Danger: Harmful

Risk Phrases:

R23: Also toxic by inhalation.

R41: Risk of serious damage to eyes.

R45: May cause cancer.

R60: May impair fertility.

R68: Possible risk of irreversible effects.

R21/22: Also harmful in contact with skin and if swallowed.

R37/38: Irritating to respiratory system and skin.

Safety Phrases:

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53: Avoid exposure - obtain special instructions before use.

WGK (Water Danger/Protection)

CAS# 60456-23-7: 3.

Canada

CAS# 60456-23-7: Not available.

US Federal**TSCA**

CAS# 60456-23-7 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: August 17, 2007

Update: May 18, 2010

The above information is believed to be accurate and represents the best knowledge available to us currently. 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 PI Chemicals, 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, even if PI Chemicals has been advised of the possibility of such damages.