

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: L-LEUCINOL
Synonyms: (S)-2-Amino-4-methyl-1-pentanol; 2-Amino-4-methyl-1-pentanol;
(S)-(+)-Leucinol
Company Identification: PI Chemicals Ltd.
Building B, 633 E Shan Road, Pudong New Area
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Section 2 - Product Information

Catalog Number: PI-35868
CAS Number: 7533-40-6
MDL Number: MFCD00063676
EC Number: 231-400-5
Purity: 98%

Section 3 - Physical and Chemical Properties

Physical state: Liquid
Color: Colorless
Molecular Formula: C₆H₁₅NO
Molecular Weight: 117.2
Freezing/Melting Point: Undetermined
Boiling Point: 198 - 200 °C (388 - 392 °F) at 1,024 hPa (768 mmHg) - lit.
Flash Point: 91 °C (196 °F) - closed cup
Autoignition Temperature: Undetermined
Refractive Index (n_D20): Undetermined
Density: 0.917 g/cm³ at 25 °C (77 °F)
Decomposition Temperature: Undetermined
Solubility: Undetermined

Section 4 - Hazards Identification

Eye: Causes eye irritation.
Skin: Causes skin irritation. Harmful if absorbed through the skin.
Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Section 5 - First Aid Measures

Eye: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin: 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.
Ingestion: Get medical aid immediately. Wash mouth out with water.
Inhalation: 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

Chemical Stability: Stable under recommended temperatures and pressures.
Materials to avoid: Strong oxidizing agents, Strong acids.
Conditions to avoid: Heat, flames and sparks.
Hazardous Decomposition Products: Carbon oxides, nitrogen oxides (NO_x)
Hazardous Polymerization: Has not been reported.

Section 7 - Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required.
Storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas.

Section 8 - Personal Protection

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

Section 9 - Fire Fighting Measures

General Information: 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# 7533-40-6: Not available.

LD50/LC50: RTECS: Not available.

Carcinogenicity: L-LEUCINOL—Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

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: Not dangerous goods.

IMO: Not dangerous goods.

RID/ADR: Not dangerous goods.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

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

Safety Phrases:

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36: Wear suitable protective clothing.

WGK (Water Danger/Protection)

CAS# 7533-40-6: 3

US Federal

TSCA

CAS# 7533-40-6 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: 8 May, 2009
Update: 10 November, 2011

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