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MATERIAL SAFETY DATA SHEET (MSDS)**PHENYLTHIOUREA 97.0%****1 - Chemical Product**

Product Name: Phenylthiourea
Synonym: Phenylthiocarbamide; Phenylthiourea; PTU

Cas no: 103-85-5

Product Coad: P0159201000

Molecular Formula: C₇H₈N₂S
Molecular Weight: 152.22

2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
103-85-5	Phenylthiourea	100.0	203-151-2

3 - HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Very toxic by inhalation, in contact with skin and if swallowed.
Very toxic if swallowed. Danger of very serious irreversible effects. Highly toxic.

Potential Health Effects

Eye: Causes eye irritation. Skin: Causes skin irritation.

Ingestion: May be fatal if swallowed. May cause irritation of the digestive tract. Poison by ingestion.

Inhalation: Causes respiratory tract irritation.

Chronic: May cause bone marrow abnormalities with damage to blood forming tissues.

4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

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. SPEED IS ESSENTIAL. A DOCTOR MUST BE NOTIFIED AT ONCE. Induce vomiting only when instructed to do so by a physician. Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Antidote: None reported.

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.

Extinguishing Media: Water or foam may cause frothing. Use water spray, dry chemical, carbon dioxide, or chemical foam.

6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Minimize dust generation and accumulation. Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing.

Keep container tightly closed. Do not ingest or inhale. Discard contaminated shoes.

Storage: Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Poison room locked.

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MATERIAL SAFETY DATA SHEET (MSDS)**PHENYLTHIOUREA 97.0%****8 - EXPOSURE CONTROLS, PERSONAL PROTECTION****Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure Limits CAS# 103-85-5: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure. Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: white - white to off-white

Odor: Odorless

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 153.00 - 155.00 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density: 1.3000g/cm³

Molecular Formula: C₇H₈N₂S

Molecular Weight: 152.22

10 - STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: Temperatures above recommended temperatures, dust generation.

Incompatibilities with Other Materials: Strong acids, strong bases, acids, acid fumes, strong oxidizing agents Hazardous Decomposition

Products: Nitrogen oxides, sulfur dioxide, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 103-85-5: YU1400000 LD50/LC50:

CAS# 103-85-5: Oral, mouse: LD50 = 10 mg/kg; Oral, rabbit: LD50 = 40 mg/kg; Oral, rat: LD50 = 3 mg/kg.

Carcinogenicity: Phenylthiourea - Not listed by ACGIH, IARC, or NTP.

Other: See actual entry in RTECS for complete information.

12 - ECOLOGICAL INFORMATION

Other No information available.

13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

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MATERIAL SAFETY DATA SHEET (MSDS)**PHENYLTHIOUREA 97.0%****14 - TRANSPORT INFORMATION**

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

USA RQ: CAS# 103-85-5: 100 lb final RQ; 45.4 kg final RQ

15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T+

Risk Phrases:

R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R 28 Very toxic if swallowed.

R 39 Danger of very serious irreversible effects.

Safety Phrases:

S 1 Keep locked up.

S 13 Keep away from food, drink and animal feeding stuffs.

S 23 Do not inhale gas/fumes/vapour/spray.

S 24/25 Avoid contact with skin and eyes.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 103-85-5: No information available.

Canada

CAS# 103-85-5 is listed on Canada's DSL List.

CAS# 103-85-5 is listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 103-85-5 is listed on the TSCA inventory.

16. Other Information**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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