

# **Material Safety Data Sheet**

#### Section 1 - Chemical Product and Company Identification

MSDS Name: Atropine

Synonyms: Hyoscyamine, Tropine tropate, endo- $(\pm)$ - $\alpha$ -(Hydroxymethyl)benzeneacetic

acid 8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester

Company Identification: PI Chemicals Ltd.

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# Section 2 - Product Information

Catalog Number: PI-11384
CAS Number: 51-55-8

MDL Number: MFCD00022622

EC Number: 200-104-8 Purity: 98.0%

#### Section 3 - Physical and Chemical Properties

Physical state: Crystalline
 Color: Off-white
 Molecular Formula: C<sub>17</sub>H<sub>23</sub>NO<sub>3</sub>
 Molecular Weight: 289.37

Undetermined Freezing/Melting Point: Undetermined **Boiling Point:** Flash Point: Undetermined Autoignition Temperature: Undetermined Refractive Index (nD20): Undetermined Density: Undetermined 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 cause irritation of the digestive tract. Toxic if swallowed.



*Inhalation:* May be harmful if inhaled. Cause respiratory tract irritation.

# Section 5 - First Aid Measures

Eye: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and

lower eyelids. Get medical aid.

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 normal temperatures and pressures.

Materials to avoid: Strong oxidizing agents,.

Conditions to Avoid: Has not been reported.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides (NOx).

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. Keep away from

sources of ignition - No smoking.

Store in a cool, dry place. Store in a tightly closed container. Light sensitive.

#### Section 8 - Personal Protection

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.

#### Section 9 - Fire and Explosion Hazard Data

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, alcohol-resistant foam, dry chemical or carbon dioxide.



# 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# 51-55-8: CK0700000.

*LD50/LC50:* Not available.

Carcinogenicity: Atropine - 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	IMO	RID/ADR
Shipping Name:	Alkaloids, solid, n.o.s.	Alkaloids, solid, n.o.s.	Alkaloids, solid, n.o.s.
	(Atropine)	(Atropine)	(Atropine)
Hazard Class:	6.1	6.1	6.1
UN Number:	1544	1544	1544
Packing Group:	II	П	II

# Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Signal word: Danger Hazard statement(s)

H300 + H330: Fatal if swallowed or if inhaled.

Risk Phrases:

R26/28: Very Toxic by inhalation and if swallowed.

Safety Phrases:

R25: Avoid contact with eyes

R26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

R27: Take off immediately all contaminated clothing



- R28: After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer)
- R29: Do not empty into drains
- R30: Never add water to this product
- R33: Take precautionary measures against static discharges
- R35: This material and its container must be disposed of in a safe way
- R36: Wear suitable protective clothing
- R37: Wear suitable gloves
- R38: In case of insufficient ventilation, wear suitable respiratory equipment
- R39: Wear eye/face protection
- R40: To clean the floor and all objects contaminated by this material use ... (to be specified by the manufacturer)
- R41: In case of fire and/or explosion do not breathe fumes
- R42: During fumigation/spraying wear suitable respiratory equipment (appropriate wording to be specified)
- R43: In case of fire, use ... (indicate in the space the precise type of fire-fighting equipment. If water increases the risk add Never use water)
- R45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

WGK (Water Danger/Protection)

CAS# 51-55-8: 3

Canada

CAS# 51-55-8: Not available

US Federal

**TSCA** 

CAS#51-55-8 is listed on the TSCA Inventory. It is for research and development use only.

#### Section 16 - Additional Information

MSDS Creation Date: May 31, 2007 Update: Feb 20, 2013

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