SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: **Atropine Reference Standard, OAS**
Catalogue no: R66045
SDS reference no: R66045
Brand: OEA Labs
EC index no(s): 614-010-00-3
REACH no: The annual tonnage does not require registration.
CAS no(s): C17H23NO3 [51-55-8]

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Elemental analysis scientific instrumentation. Not for pharmaceutical, domestic or other uses.

1.3 Details of the supplier of the safety data sheet

Company name: OEA Laboratories Limited
Unit C2 Florence Road Business Park
Kelly Bray, Callington, Cornwall
PL17 8EX, United Kingdom

Telephone: +44 (0)1579 384174
Fax: +44 (0)1579 384174
Email: sales@oealabs.com

1.4 Emergency telephone number

Telephone: +44 (0)1579 384174, +44 (0) 1579 350212, +44 (0) 7811 102906

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture according to Regulation (EC) No 1272/2008

Accute toxicity, oral (Category 1, 2), H300
Acute toxicity, inhalation (Category 1, 2), H330

2.2 Labelling elements according to Regulation (EC) No 1272/2008

Pictogram(s):

GHS06 GHS06

Signal word: Danger

Hazard statement(s):

H300	Fatal if swallowed.
H330	Fatal if inhaled.

Precautionary statement(s):

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P284	Wear respiratory protection.
P301+P310	If swallowed: Immediately call a poison centre or doctor/physician.
P310	Immediately call a poison centre or doctor/physician.

Restricted to professional users.

2.2 Other hazards

none

SECTION 3. Composition/information of ingredients

3.1 Substances

Synonyms: Tropine tropate, Hyoscyamine
Formula: C17H23NO3
Molecular weight: 289.37
Components:

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice:
Consult a physician. Show this safety data sheet to the doctor in attendance.

If Inhaled:
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact:
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Firefighting measures

5.1 Extinquishing media

Suitable extinquishing media:

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arrising from the substance or mixture

Carbon oxides, nitrogen oxides (Nox)

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

no data available

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters:

8.2 Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:

Eye/face protection:

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection:

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental protection:

No data available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Powder
Colour:	White
Odour:	No data available
Odour threshold:	No data available
pH:	No data available
Melting point:	115'C
Boiling point:	No data available
Flash point:	No data available
Flammability solid/gas:	No data available
Upper/lower flammability or explosive limits:	No data available
Water solubility:	No data available
Autoignition temp:	No data available
Decomp temperature:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

9.2 Other safety information

No data available

SECTION 10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Light

10.5 Incompatible materials

Alkalis, mercury salts, tannins, iodine

10.6 Hazardous decompostion products

No data available. In event of fire see section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

No data available

Skin corrosion/irritation:

No data available

Serious eye damage/eye irritation:

No data available

Respiratory or skin sensitisation:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

IARC: No component of this product present at levels greater or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity:

Mouse - unreported.
Effects on fertility: Other measures of fertility

Developmental toxicity - human - female - intravenous
Specific developmental abnormalities: cardiovascular circulatory system.

Specific target organ toxicity - single exposure:

No data available

Specific target organ toxicity - repeated exposure:

No data available

Aspiration hazard:

No data available

Potential health effects - inhalation:

No data available

Potential health effects - ingestion:

No data available

Potential health effects - skin:

No data available

Potential health effects - eyes:

No data available

Signs and symptoms of exposure:

No data available

Additional information:

No data available

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish:	No data available
Toxicity to daphnia and other aquatic invertibrates:	No data available
Toxicity to algae:	No data available
Toxicity to bacteria:	No data available

12.2 Persistance and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product:

Offer surplus and none-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging:

Dispose of as unused product.

SECTION 14. Transport information

14.1 UN number

ADR/RID/IATA/IMDG: UN1544

14.2 UN proper shipping name

ADR/RID/IATA/IMDG: ALKALOIDS, SOLID, N.O.S. (Atropine)

14.3 Transport hazard class(es)

ADR/RID/IATA/IMDG: 6.1

14.4 Packaging group

ADR/RID/IATA/IMDG: III

14.5 Environmental hazards

ADR/RID/IATA/IMDG:

14.6 Special precautions for user

14.7 Shipping quantities

ADR LQ maximum:	5kg
ADR EQ code:	E1
ADR EQ IP/pkg:	30gm pkg to 1000gm
IATA LQ PInstruction:	Y645
IATA LQ IP/pkg:	1kg (glass, plastic) to 10kg
IATA EQ code:	E1
IATA EQ IP/pkg:	30gm pkg to 1000gm
De minimus:	1gm Accepted

SECTION 15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 Other information

The above information is believed to be correct but does not proport to be all inclusive and shall be used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety pecautions. It does not represent any guarantee of the properties of the product. OEA Laboratories Limited shall not be held liable for any damage resulting from the handling or contact with the above product. See www.oealabs.com for terms and conditions of sale.