

SAFETY DATA SHEET

LEAD REAGENT A

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Revision No: 1

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: LEAD REAGENT A

Product code: APP-LRA

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient 1: CHLOROFORM >90%

CAS: 67-66-3

EINECS: 200-663-8

[Xn] R22; [Xi] R38; [Xn] R40; [Xn] R48/20/22;

Ingredient 2: IODINE <10%

CAS: 7553-56-2

EINECS: 231-442-4

[Xn] R20/21; [N] R50;

Ingredient 3: RAW TETRAETHYLAMMONIUM CHLORIDE <10%

3. HAZARDS IDENTIFICATION

Main hazards: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Irritating to skin. Limited evidence of a carcinogenic effect.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact. Absorption through the skin may occur causing symptoms similar to those of inhalation.

Eye contact: There may be irritation and redness.

Ingestion: Nausea and stomach pain may occur. There may be vomiting and diarrhoea. Severe poisoning can cause shock, unconsciousness and convulsions.

Inhalation: There may be congestion of the lungs causing severe shortness of breath. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. If conscious, give 1 pint of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If

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unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Carbon dioxide. Water fog.

Exposure hazards: In combustion emits toxic fumes of hydrogen chloride / phosgene.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Eliminate all sources of ignition. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. If inside, transfer outside of building in suitable containers. Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be used in handling.

Hand protection: Protective gloves.

Eye protection: Safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. Ensure safety shower is to hand.

TWA (8 hr exposure limit): 9.9 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Red-brown

Odour: Characteristic odour

Viscosity: Non-viscous

Oxidising: Non-oxidising (by EC criteria)

Evaporation rate: Moderate

Solubility in water: Not miscible

Also soluble in: Ethanol. Diethyl ether. Benzene.

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Boiling point/range°C: 61
Melting point/range°C: -63
Autoflammability°C: 1000+
Vapour pressure: 160mm@20°C
Relative density: 1.492

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to avoid: Direct sunlight.
Materials to avoid: Alkali metals. Alkali earth metals. Aluminium.
Haz. decomp. products: In combustion emits toxic fumes of hydrogen chloride / phosgene.

11. TOXICOLOGICAL INFORMATION

Ingredient 1: CHLOROFORM
ORL RAT LD50 908mg/kg

12. ECOLOGICAL INFORMATION

Mobility: Volatile. Insoluble in water. Absorbed only slowly into soil.
Other adverse effects: Ozone depletion potential.

13. DISPOSAL CONSIDERATIONS

Waste disposal: Mix or dissolve with a combustible material and burn in a chemical incinerator equipped with afterburners and scrubbers.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 2810
ADR Class: 6.1
Hazard ID no: 60
Labelling: 6.1
Shipping name: TOXIC LIQUID, ORGANIC, N.O.S.

IMDG / IMO

UN no: 2810
Class: 6.1
Packing group: III
EmS: 6.1-02
Marine pollutant: YES
Labelling: 6.1

IATA / ICAO

UN no: 2810
Class: 6.1
Packing group: III

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Packing instructions: 618
Quantity 220 L
Labelling: 6.1

15. REGULATORY INFORMATION

Hazard symbols: Harmful.



Risk phrases: R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R38: Irritating to skin.

R40: Limited evidence of a carcinogenic effect.

Safety phrases: S2: Keep out of the reach of children.

S36/37: Wear suitable protective clothing and gloves.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. ADDITIONAL INFORMATION

Risk phrases used in s.2: R22: Harmful if swallowed.

R38: Irritating to skin.

R40: Limited evidence of a carcinogenic effect.

R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R20/21: Harmful by inhalation and in contact with skin.

R50: Very toxic to aquatic organisms.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.