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ReAgent

SILVER NITRATE LRG MSDS

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

PRODUCT NAME	SILVER NITRATE LRG
CAS-No.	7761-88-8
EU INDEX NO.	047-001-00-2
EC No.	231-853-9
SUPPLIER	Reagent Chemical Services 18 Aston Fields Road Whitehouse Industrial Estate Runcorn Cheshire WA7 3DL T: 01928 716903 F: 01928 716425 E: info@reagent.co.uk
PRODUCT NO.	1542
APPLICATION	General chemical reagent

2 HAZARDS IDENTIFICATION

Contact with combustible material may cause fire. Causes burns. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION (67/548) -

3 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO.	047-001-00-2
EC No.	231-853-9
CAS-No.	7761-88-8

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION

Rinse mouth thoroughly. Drink plenty of water. Get medical attention.

SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water. After contact with small amounts get medical attention if any discomfort continues. For large amounts, obtain medical attention.

EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non-combustible. May ignite surrounding combustible material. Use: Water spray.

SPECIFIC HAZARDS

In case of fire, toxic gases may be formed.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SILVER NITRATE LRG

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses.

SPILL CLEAN UP METHODS

Keep combustibles away from spilled material. Avoid generation and spreading of dust. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Wash thoroughly after dealing with a spillage.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid inhalation of dust and contact with skin and eyes.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 15°C and 25°C. Store away from combustible materials. Protect from light, including direct sunrays. Store in a dry place.

STORAGE CLASS

Oxidiser storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
SILVER NITRATE LRG	WEL		0.01 As Ag mg/m3			

WEL = Workplace Exposure Limit.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator.

HAND PROTECTION

Use protective gloves made of: Rubber or plastic.

EYE PROTECTION

Use approved safety goggles or face shield.

OTHER PROTECTION

Provide eyewash station and safety shower.

HYGIENE MEASURES

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

SKIN PROTECTION

Wear apron or protective clothing in case of contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Crystalline powder		
COLOUR	Colourless to white.		
ODOUR	Odourless		
SOLUBILITY	Soluble in water.		
MOL. WEIGHT	169.87	BOILING POINT (°C)	444(Decomposition) 760 mm Hg
MELTING POINT (°C)	212	RELATIVE DENSITY	4.33 20
BULK DENSITY	~2.3 kg/l	DECOMPOSITION TEMPERATURE (°C)	>444
SOLUBILITY VALUE (g/100g H ₂ O@20°C)	2,150		

10 STABILITY AND REACTIVITY

STABILITY

Light sensitive.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

SILVER NITRATE LRG

MATERIALS TO AVOID

Organic substances. Ammonium compounds. Alcohols. Combustible substances. Aldehydes. Organic nitro compounds. Aluminium. Magnesium.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Nitrous gases (NOx).

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 1173 mg/kg (oral rat)

INHALATION

Irritating to respiratory system. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Causes coughing.

INGESTION

May cause severe internal injury. Causes burns to the mouth, throat, oesophagus and gastrointestinal tract. Large amounts will cause vomiting, diarrhoea and possibly death.

SKIN CONTACT

Causes burns.

EYE CONTACT

Causes burns. Risk of serious damage to eyes. Possible blindness.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

LC 50, 96 Hrs, FISH mg/l 0.03 (L.idus) 0.006 (Onchorhynchus mykiss)

EC 50, 48 Hrs, DAPHNIA, mg/l 0.002 (Daphnia Magna)

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

14 TRANSPORT INFORMATION



UK ROAD CLASS	5.1	UK ROAD PACK GR.	II
UN NO. ROAD	1493	ADR CLASS	Class 5.1: Oxidising substances.
ADR CLASS NO.	5.1	RID CLASS NO.	5.1
ADR PACK GROUP	II	UN NO. SEA	1493
RID PACK GROUP	II	IMDG PACK GR.	II
IMDG CLASS	5.1	AIR CLASS	5.1
UN NO. AIR	1493		
AIR PACK GR.	II		

15 REGULATORY INFORMATION

LABELLING



Corrosive



Oxidising



Dangerous for the environment

RISK PHRASES

R8	Contact with combustible material may cause fire.
R34	Causes burns.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SILVER NITRATE LRG

SAFETY PHRASES

S1/2	Keep locked up and out of the reach of children.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

16 OTHER INFORMATION

GENERAL INFORMATION

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

REVISION COMMENTS

This is first issue.

REVISION DATE 18/05/2006

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SDS NO. 20642