SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Uranyl Nitrate

Section 1: Identification of the substance/ mixture and of the company/ undertaking.

1.1 Product identifier

Product name	Uranyl Nitrate
Other names	
CAS No.	13520-83-7
Index No.	092-002-00-3
EC No.	233-266-3
Product code	5102000

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

Product use	Laboratory chemicals, manufacture of substances, Scientific R&D

1.3 Details of the supplier of the safety data sheet

Company	Breckland Scientific Supplies Ltd
Address	Antom Court, Tollgate Drive, Stafford, ST16 3AF
Web	www.brecklandscientific.co.uk
Telephone	01785 227 227
Fax	01785 227 444
Email	msds@brecklandscientific.co.uk
Emergency telephone	08:30-17:00 01785 227227 24hrs 112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification - 67/548/EEC	T; R23 (vapour) Acute Tox. 2 Toxic T+; R28 Acute Tox. 2 Very Toxic R33 STOT RE 2 N; R51-53 Aquatic Chronic 2 Dangerous for the environment O; Oxidiser
2.1.2 Classification – EC 1272/2008	H330 H300 H373 H411 H272

2.2 Label elements

Hazard Pictograms	

Signal word	Danger
Hazard statement	H330: Fatal if inhaled. H300: Fatal if swallowed. H373: May cause damage to organs through prolonged or repeated exposure. H411: Toxic to aquatic life with long lasting effects. H272: May intensify fire; oxidiser.
Precautionary statement	P220: Keep/ Store away from clothing/ combustible materials P260: Do not breathe dust/fume/gas/mist/vapours/spray. P284: Wear respiratory protection P273: Avoid release to the environment. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P501:

Section 3: Composition/information on ingredients

3.1 Substances

67/548/EEC/1999/45/EC

Chemical name	Index No.	CAS No.	EINECS No.	Classification	Conc
Uranyl Nitrate	092-002-00-3	13520-83-7	233-266-3	H330 H300 H373 H411 H272	90-100

EC 1272/2008

Chemical name	Index No.	CAS No.	EINECS No.	Classification	Conc
Uranyl Nitrate	092-002-00-3	13520-83-7	233-266-3	T; R23 (vapour) Acute Tox. 2 Toxic T+; R28 Acute Tox. 2 Very Toxic R33 STOT RE 2 N; R51-53 Aquatic Chronic 2 Dangerous for the environment O; Oxidiser	90-100

Section 4: First aid measures

4.1 Description of first aid measures

Inhalation:	Move the exposed person to fresh air. If breathing stops, provide artificial respiration.
Eye contact:	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck

	to skin. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion:	DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Seek medical attention.
General information:	If you feel unwell, seek medical advice (show the label where possible).

Section 5: Firefighting measures

5.1 Extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
5.2 Special hazards arising from substances or mixture	No data available
5.3 Advice for firefighters	Wear suitable respiratory equipment when necessary

Section 6: Accidental release measures

6.1 Personal precaution, protective equipment and emergency procedures	Wear suitable protective clothing. Avoid breathing vapours, mist or gas. Avoid formation of dust. Ensure adequate ventilation of the working area. Evacuate personnel to a safe area.
6.2 Environmental precautions	Prevent further spillage if safe. Do not allow product to enter drains
6.3 Methods and materials for containments and cleaning up	Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust. Ensure adequate ventilation of the working area.
7.2 Conditions for safe storage including any incompatibilities.	Store in a cool, dry area. Keep container tightly closed.

Section 8: Exposure controls/ personal protection

8.1 Control parameters

8.1.1 Exposure limit values

Uranyl Nitrate	Long Term (8hr TWA)	Short term (15min period STEL)

CAS No: 13520-83-7		
ppm	N/A	N/A
Mg/m^3	N/A	N/A

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 the working day. Ensure adequate ventilation of the working area.
Eye/ face protection	Approved safety glasses. Face shield where appropriate.
Skin/ hand protection	Wear suitable protective clothing and gloves.
Respiratory protection	Where risk assessment shows it is necessary, use a dust mask type or breathing apparatus.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State:	Solid
Colour:	No data available
Melting point °C:	No data available
Boiling point °C:	No data available
Relative density g/cm^3:	No data available
Chemical formula:	$UO_2(NO_3)_2 \cdot 6H_2O$
Molecular weight g/mol:	502.13

Section 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	No data available

Section 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available

Reproductive toxicity	No data available

11.4 Toxicological information

Uranyl Nitrate	Oral Rat LD50 mg/kg: No data available

Section 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic vertebrates

Uranyl Nitrate	EC50 Daphnia magna: No data available (Water flea) mg/l - 48hr

Section 13: Disposal considerations

General information	Dispose of in compliance with all local and national regulations.
Disposal methods	Contact a licensed waste disposal company. Dispose of this material and its container to hazardous or special waste collection point

Section 14: Transport information

ARD/RID

14.1. UN Number:

ADR/RID: 1477 IMDG: 1477 IATA: 1477

14.2 UN Proper shipping name: Uranyl Nitrate

14.3. Transport hazard class(es): 5.1

14.4. Packing group: II

14.5 Environmental hazards:

ADR/RID: no IMDG Marine pollutant: no IATA: no

Section 15: Regulatory information

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

Regulations	Labelling according to Regulation (EC) No 1272/2008.

Section 16: Other information

16.1: Other information

Text of risk phrases in Section 3

T; R23 (vapour) Acute Tox. 2 Toxic	Fatal if inhaled.
T+; R28 Acute Tox. 2 Very Toxic	Fatal if swallowed.
R33 STOT RE 2	May cause damage to organs through prolonged or repeated exposure.
N; R51-53 Aquatic Chronic 2 Dangerous for the environment	Toxic to aquatic life with long lasting effects.
O; Oxidiser	May intensify fire; oxidiser.

Text of hazard statements in Section 3

H330	Fatal if inhaled.
H300	Fatal if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H272	May intensify fire; oxidiser.

16.2 Further information

Further information	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. Breckland Scientific Supplies Limited will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.