

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Malachite Green Oxalate C.I. 42000

Product code RRBD39
CAS No. 2437-29-8
EC No. 219-441-7
REACH Registration No. Not known.

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

Identified Use(s) Industrial/professional: PROC15 Use as laboratory reagent

Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification Atom Scientific Ltd

Address of Manufacturer Unit 2A East Tame Business Park

Rexcine Way

Hyde Cheshire

 Postal code
 SK14 4GX

 Telephone:
 0161 3665123

 Fax
 01704 337167

E-mail technical@atomscientific.com

Office hours 08:00 - 17:00

Supplier

Company Identification Atom Scientific Ltd

Address of Supplier Unit 2A East Tame Business Park

Rexcine Way Hyde Cheshire

Postal code SK14 4GX
Telephone: 0161 3665123
Fax 01704 337167

E-mail technical@atomscientific.com

Office hours 08:00 - 17:00

1.4 Emergency telephone number

Emergency Phone No. 07833453806 Contact Peter Keenan

### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

GB CLP Regulation, UK SI 2019/720 and Acute Tox. 4 :Harmful if swallowed.

UK SI 2020/1567 Eye Dam. 1 :Causes serious eye damage.

Repr. 2 :Suspected of damaging the unborn child.

Aquatic Acute 1: Very toxic to aquatic life.

Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567

Product Name Malachite Green Oxalate C.I. 42000

Hazard Pictogram(s)









Signal Word(s) Danger

Hazard Statement(s) H302: Harmful if swallowed.

H318: Causes serious eye damage.

H361d: Suspected of damaging the unborn child. H410: Very toxic to aquatic life with long lasting effects.

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Precautionary Statement(s) P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTRE/doctor.

P391: Collect spillage.

P501: Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

HAZARDOUS	CAS No.	EC No. / Registration	%W/W	Hazard Statement(s)	Hazard
INGREDIENT(S)		number(s)			Pictogram(s)
Malachite green oxalate	2437-29-8	219-441-7	100	Acute Tox. 4 H302	GHS05
				Eye Dam. 1 H318	GHS08
				Repr. 2 H361d	GHS07
				Aquatic Acute 1 H400	GHS09
				Aquatic Chronic 1 H410	
				·	

#### 3.2 Mixtures

Not applicable.

### SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation IF exposed or concerned: Get medical advice/attention. Skin Contact IF exposed or concerned: Get medical advice/attention.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

Ingestion Rinse mouth. Immediately call a POISON CENTRE/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns.

4.3 Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get medical advice/attention. Treat symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None.

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained

breathing apparatus. Dike fire control water for later disposal.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid dust generation. Do not breathe dust. Ensure full personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental precautions

Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Collect spillage. Sweep up spilled substance and remove to safe place. Use vacuum equipment for collecting spilt materials, where practicable. Contain spillages with

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sand, earth or any suitable adsorbent material. Earth may be shovelled to contain

spillage and to avoid contamination of sewers and watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

#### SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective

gloves/protective clothing/eye protection/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up.

Storage temperature Ambient.

Storage life Stable under normal conditions.

Incompatible materials None known.

7.3 Specific end use(s)
Industrial/professional : PROC15 Use as laboratory reagent

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits No Occupational Exposure Limit assigned.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing

facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Eye Protection Wear eye protection with side protection (EN ISO 16321-1).

Skin protection Wear protective clothing and gloves: Impervious gloves (EN 374). Breakthrough

time of the glove material: refer to the information provided by the gloves' producer.

Respiratory protection A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be

appropriate.

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Thermal hazards None known.

3.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the

appropriate regulatory body.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Appearance Solid.

Colour: Green. Odour Not known Odour threshold Not known. Not known. Melting point/freezing point 144 - 150°C Initial boiling point and boiling range Not known. Flash Point Not applicable. Evaporation rate Not known. Flammability (solid, gas) Not known Upper/lower flammability or explosive Not known.

limits

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Vapour pressure Not known. Vapour density Not known. Density (g/ml) Not known. Relative density Not known.

Solubility(ies) Solubility (Water): Soluble.

Solubility (Other): Soluble in: Ethanol

Partition coefficient: n-octanol/water Not known. Auto-ignition temperature Not known. Decomposition Temperature (°C) 164°C Viscosity Not known. Explosive properties Not known. Oxidising properties Not known

9.2 Other information

None.

#### SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Not known

10.6 Hazardous decomposition products

No hazardous decomposition products known.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute toxicity - Ingestion Harmful if swallowed. Acute toxicity - Skin Contact Not classified. Acute toxicity - Inhalation Not classified. Skin corrosion/irritation Not classified.

Serious eye damage/irritation Causes serious eye damage.

Skin sensitization data Not classified. Respiratory sensitization data Not classified. Germ cell mutagenicity Not classified. Carcinogenicity Not classified.

Reproductive toxicity Suspected of damaging the unborn child.

Lactation Not classified. STOT - single exposure Not classified. STOT - repeated exposure Not classified. Not classified. Aspiration hazard

11.2 Other information

Not known.

### SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

EC50 -Daphnia magna -0.29mg/l (48 hour)

Toxicity - Aquatic invertebrates Toxicity - Fish Not known. Toxicity - Algae Not known. **Toxicity - Sediment Compartment** Not classified. Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

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#### 12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not

12.6 Other adverse effects

None known.

#### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Dispose at suitable refuse

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

#### **SECTION 14: TRANSPORT INFORMATION**

14.1 UN number

UN No. 2811

14.2 UN proper shipping name

UN proper shipping name TOXIC SOLID, ORGANIC, N.O.S. (MALACHITE GREEN OXALATE)

14.3 Transport hazard class(es)

ADR/RID

ADR/RID Class 6.1 ADR Classification Code T2 Special Provisions 274 614 Limited Quantities 5 kg **Excepted Quantities** E1 **Emergency Action Code** 2X

Packing Instructions for Packages P002 IBC08 LP02 R001

Ε

Special Packing Provisions for Packages B3 Mixed Packing Instructions for Packages MP10 Instructions for Portable Tanks Special Provisions for Portable Tanks **TP33** Tank Code for Tanks SGAH L4BH Special Provisions for Tanks TU15 TE19 Vehicle for Tank Carriage AT ADR Transport Category 2

**Tunnel Restriction Code** Special Provisions for Carriage -

Packages

Special Provisions for Carriage - Bulk VC1 VC2 AP7 Special Provisions for Carriage - Loading, CV13 CV28

Unloading and Handling

Special Provisions for Carriage -S9

Operation

ADR HIN 60 **IMDG** 

**IMDG Class** 6 1 Special Provisions 223 274 Limited Quantities 5 kg **Excepted Quantities** E1

Mixed Packing Instructions for Packages P002 IBC08 Special Packing Provisions for Packages В3

Instructions for Portable Tanks Special Provisions for Portable Tanks **TP33 IMDG EMS** F-A, S-A Stowage and Handling Category A

Segregation Marine Pollutant

ICAO/IATA

ICAO/IATA Class 6.1 **Excepted Quantities** E1 Passenger and Cargo Aircraft Limited Quantities Packing Instructions Y645

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Passenger and Cargo Aircraft Limited

Quantities Max net Qty

Passenger and Cargo Aircraft Packing 670

10Kg

Instructions

Passenger and Cargo Aircraft Max net 100Kg

Qty

Cargo Aircraft Packing Instructions 677
Cargo Aircraft Max net Qty 200Kg
Special Provisions A3, A5
Emergency Response Guidebook (ERG) 6L

Code Labels

Labels 6.1



14.4 Packing group

Packing group

Ш

14.5 Environmental hazards

Environmental hazards ADR/RID: Environmentally Hazardous

IMDG: Marine Pollutant

14.6 Special precautions for user

Special precautions for user Not known.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available

#### SECTION 15: REGULATORY INFORMATION

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

United Kingdom Regulations - Authorisations and/or Restrictions On Use

UK REACH Candidate List of Substances Not listed

of Very High Concern for Authorisation

UK REACH Authorisation List (Annex Not listed

XIV) list of substances subject to

authorisation

UK REACH Restrictions List (Annex XVII) Malachite green oxalate (2437-29-8)

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

UK REACH Rolling Action Plan (RAP) Not listed Persistent Organic Pollutants (Various Not listed

Amendments) Regulations 2019 (SI

2019/1099)

The Ozone-Depleting Substances and Not listed

Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations

2019 (SI 2019/583)

The Prior Informed Consent (PIC) Not listed

Regulations concerning the export and import of hazardous chemicals SI2008/2108 as amended

European Regulations - Authorisations and/or Restrictions On Use

Community Rolling Action Plan (CoRAP) Not listed

Seveso Directive Code E1: Lower Tier Quantity 100 - Upper Tier Quantity 200

15.2 Chemical Safety Assessment

United Kingdom A REACH chemical safety assessment has not been carried out.

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### SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

#### **LEGEND**

Hazard Pictogram(s)









Hazard classification

Acute Tox. 4 : Acute toxicity, Category 4

Eye Dam. 1: Serious eye damage/irritation, Category 1

Repr. 2: Reproductive toxicity, Category 2

Aquatic Acute 1: Hazardous to the aquatic environment, Acute, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment, Chronic, Category 1

Hazard Statement(s)

H302: Harmful if swallowed.

H318: Causes serious eye damage.

H361d: Suspected of damaging the unborn child.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash hands and exposed skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P312: IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P330: Rinse mouth. P391: Collect spillage. P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation. ADN: European Agreement concerning the International Carriage of Dangerous

Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous

Goods by Road

ATE: Acute Toxicity Estimate CAS: Chemical Abstracts Service DNEL: Derived No Effect Level EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods

LTEL: Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

Acronyms

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**UN**: United Nations

vPvB: very Persistent and very Bioaccumulative

Key literature references and sources for GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 data used to compile the SDS

Training Advice Disclaimers

Regular safety training as appropriate

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