



According to EC Regulations No. 453/2010 (REACH), 1272/2008 (CLP) & 453/2010

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name SULIS  
Product code BLK0032-01  
REACH registration No. Not applicable

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

Identified use(s) Plant micronutrient fertiliser concentrate for foliar spray and soil application

Uses advised against Not suitable for use as a ready to use product

### 1.3. Details of the supplier of the safety data sheet

Supplier name: Levity Crop Science Ltd  
Supplier address: Levity Crop Science Ltd  
Crowhall Farm  
Newsham Hall lane  
Woodplumpton  
Preston  
PR4 0AS UK

Supplier telephone: +44 (0) 1772 369589  
Email: info@levitycropscience.com

### 1.4. Emergency telephone number

Emergency phone No. +44 (0) 1772 369589 (GMT English spoken, Mon-Fri – 08:00 – 17:00)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

2.1.1. Regulation (EC) No.1272/2008 (CLP) Serious eye damage (Category 1)

2.2.2. Directives 67/548/EEC, 1999/45/EC Risk of serious damage to the eyes (Xi)

### 2.2. Label elements

#### Labelling according Regulation (EC) No 1272/2008 [CLP]



CLP Hazard Pictograms:

Signal Word(s): Danger

Hazard Statements:

H318 Causes serious eye damage



# EU Safety Data Sheet

Version 1.0  
14/03/2024

Precautionary Statements: Some voluntary precautionary statements have been applied

P264 Wash hands thoroughly after handling this product  
P280 Wear eye protection  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 Immediately call a POISON CENTER or doctor/physician  
P337 + P313 If eye irritation persists: Get medical advice/attention  
P501 Dispose of contents in accordance with local regulations, dispose of container to appropriate domestic recycling stream

According to European Directive 67/548/EEC as amended.



Hazard symbol(s):

Risk phrases:

Xi; R41 Risk of serious damage to the eyes

Safety phrases:

S13 Keep away from food, drink and animal feeding-stuffs  
S24/25 Avoid contact with skin and eyes  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention  
S28 After contact with skin, wash immediately with plenty of water  
S39 Wear eye protection  
S46 If swallowed, seek medical advice immediately and show this document

**2.3. Other hazards** This product has not been tested for PBT or vPvB

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

EC Classification No 1272/2008

Hazardous ingredient(s)	%w/w	CAS no	EC no	REACH Registration no	H statements
Water	80 – 85	7732-18-5	231-791-2	-	-
Sodium Molybdate Dihydrate	11 - 13	10102-40-6	231-551-7	01-2119489495-21-XXXX	-

EEC Classification No 67/548/EEC

Hazardous ingredient(s)	%w/w	CAS no	EC no	REACH Registration no	Risk Phrases
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Water	80 – 85	7732-18-5	231-791-2	-	-
Sodium Molybdate Dihydrate	11 - 13	10102-40-6	231-551-7	01-2119489495-21-XXXX	-

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### 4.1.1. First aid instructions.

If inhaled:	Move person into fresh air, rest and seek medical advice if any ill-effects persist
If on skin (or hair):	Wash affected skin with plenty of soap and water. Wash clothes before reuse
If in eyes:	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open. Remove contact lenses if possible. Seek medical advice
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth and throat. Do not induce vomiting. Drink 1-2 glasses of water. Consult a physician
Other first aid advice:	If vomiting occurs spontaneously, keep airways clear. Give more water when vomiting stops

### 4.2. Most important symptoms and effects, both acute and delayed

If inhaled:	Inhalation of mist or vapours may cause irritation and a burning sensation to mucous membranes and upper respiratory tract. Symptoms may include irritation, coughing and tightness of breath
If on skin (or hair):	Where not washed exposure may result in redness and itchiness. Irritation and burns may occur to skin especially when already sore or dry according to contact time
If in eyes:	Exposure to eyes will result in immediate pain and tearing. Burns to the eye may occur if not washed promptly. Eye injury should be slight and reversible within a few days if washed within minutes of exposure
If swallowed:	Ingestion may cause abdominal pain, vomiting and diarrhoea within hours of ingestion. Mild irritation to possible burns may occur to the mouth, throat and gastrointestinal tract

### 4.3. Indication of any immediate medical attention and special treatment needed

Medical treatment:	Check pH of the eye cul-de-sac after exposure and washing, continue washing if pH is high. Saline and proparacaine hydrochloride may assist eye irrigation
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media



Suitable extinguishing media: All extinguishing agents permitted

Unsuitable extinguishing media: None known

## 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Oxides of boron, molybdenum, sodium, carbon and nitrogen

Other special hazards during fire: None known

## 5.3. Advice for firefighters

Protective actions during firefighting: Wear self-containing breathing apparatus

Special protective equipment for firefighters: No special instructions

Other advice: Not applicable

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Non-emergency personnel PPE See section 8.2

Emergency responders PPE See section 8.2

Controlling risks from accidental release: Avoid contact with strong acids and oxidising agents. This product is a slip hazard when spilt

Emergency procedures: Evacuate personnel to safe areas.

### 6.2. Environmental precautions

Keep accidental releases away from: Drains, water courses, soil and open ground. Discharge to ground, water courses or drains can cause eutrophication

### 6.3. Methods and material for containment and cleaning up

Containing a spill: Mop up and contain with absorbent materials

Cleaning up a spill: Mop spills, recycle where possible

Other information on spill handling: Dilute with water, neutralise with dilute bicarbonate or vinegar. Capture with absorbent material. Recycle where possible

### 6.4. Reference to other sections

References to other sections: See section 8.2 for personal protective equipment. See section 13.1 for disposal considerations

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Safe handling recommendations: Wash hands and exposed skin before meals and after use. Wear gloves when handling the product over long periods of time



Handling incompatibles:	Do not use with strong acids or oxidising agents
Reducing environmental risk:	Do not discharge into drains or water courses
Occupational hygiene advice	Wash hands after using this product and before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas

## 7.2. Conditions for safe storage, including any incompatibilities

### **Safe storage: managing risks during storage:**

Explosive atmospheres formed during storage:	Not applicable
Corrosive conditions during storage:	Not applicable
Flammability hazards during storage:	Not applicable
Incompatible substances or mixtures:	Incompatible with strong acids or oxidising agents
Evaporative conditions:	Not applicable
Potential ignition sources, including electrical equipment:	Not applicable

### **Safe storage: controlling effects of ambient conditions:**

Weather conditions:	Do not store outside uncontained
Ambient pressure:	Not applicable
Temperature:	Do not allow product to freeze or exceed 30°C
Sunlight:	Keep out of direct sunlight
Humidity:	Not applicable
Vibration:	Not applicable

### **Safe storage: maintaining the integrity of the product:**

Stabilisers:	Stabilisers are not used in this product
Antioxidants:	Antioxidants are not used in this product

### **Safe storage: other advice:**

Ventilation requirements for storage:	No specific ventilation requirements
Specific designs for storage rooms or vessels:	No specific design criteria on storage areas apart from normal regulatory requirements for substances of this type
Quantity limits under storage conditions:	Not applicable
Suitable packaging for the substance:	Keep in original container. On prolonged exposure may be corrosive to aluminium and copper

## 7.3. Specific end use(s)



Uses: Use as a micronutrient fertiliser concentrate for plants by foliar, furrow or drip irrigation

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure limits:

Current workplace exposure limits assigned to individual components according to HSE document EH40/2005

Substance	CAS number	Workplace Exposure Limit (WEL)				Comments
		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15 minute reference period)		
		ppm	mg.m <sup>-3</sup>	ppm	mg.m <sup>-3</sup>	
Molybdenum compounds (as Mo) soluble compounds	-	-	5	-	10	The Carc., Sen. and Sk notations are not exhaustive. Notations have been applied to the substances identified in IOELV Directives

8.1.2 Biological Limit Values: Not applicable

8.1.3 Current recommended monitoring procedures: Not applicable

8.1.4 Air contaminants formed when using the product as intended: Not applicable

8.1.5. PNECs and DNELs Not applicable

### 8.2. Exposure controls

8.2.1. Appropriate engineering controls: Handle in accordance with good industrial hygiene

#### 8.2.2. Personal Protection Equipment

Eye protection: Use safety glasses tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Face protection: Not required

Hand protection: When handling the product over an extended period of time use nitrile, latex or rubber gloves, which satisfy the specifications of EU Directive 89/686/EEC and the standard EN 420 derived from it

Other skin protection Do not wear open footwear

Respiratory protection Not required

Thermal hazards Not required

8.2.3. Environmental exposure controls Do not release substance to drains or surface water



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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance:	Dark pink liquid
Physical state:	liquid
Colour:	Dark pink liquid
Odour:	Non appreciable
Odour threshold:	Data not available
pH:	8.5 – 9.5
Melting point:	Data not available
Freezing point:	<0°C
Initial boiling point:	Aqueous component will boil at 100°C
Boiling range:	Data not available
Flash point:	Data not available
Flash point method:	Data not available
Evaporation rate:	Data not available
Flammability (if solid or gas):	Data not available
Upper and lower flammability or explosive limits:	Data not available
Vapour pressure:	Data not available
Vapour density:	Data not available
Relative density:	1.05 – 1.15 g/cm <sup>3</sup> at 20°C
Solubility(ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	<500 cPs at 20°C, thixotropic
Explosive properties	Data not available
Oxidising properties	Data not available
9.2. Other information	Data not available

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## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Can react with strong acids and oxidising agents
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- 10.2. Chemical stability** Product is stable under anticipated storage and handling conditions
- 10.3. Possibility of hazardous reactions** Substance not known to react and/or polymerise
- 10.4. Conditions to avoid** Excessive heat (to water boiling point), mixing with acids
- 10.5. Incompatible materials** Oxidising and acidic materials
- 10.6. Hazardous decomposition products** No known hazardous decomposition products known

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

- Acute toxicity Oral (rat) – LD50; >2,000 mg/kg body weight (extrapolated from constituent components)
- Skin corrosion/irritation Anticipated to be slightly irritating to skin
- Serious eye damage/irritation Classified as corrosive to the eyes
- Respiratory or skin sensitisation Data not available
- Germ cell mutagenicity Data not available
- Carcinogenicity Data not available
- Reproductive toxicity Data not available
- STOT-repeated exposure; Data not available
- 11.2. Other information** No other information

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## SECTION 12: Ecological information

### 12.1. Toxicity

No specific data available from tests performed on this product. The mixture is not classified as an environmental hazard. Data below has been extrapolated from constituent components

Species	Test	Value
Fathead minnow ( <i>Pimephales promelas</i> )	LC50 96H	>100 mg/L
Water flea ( <i>Daphnia magna</i> )	EC50 48H	>100 mg/L
Algae ( <i>Pseudokirchnerella subcapitata</i> )	EC50 72H	>100 mg/L

- 12.2. Persistence and degradability** Data not available
- 12.3. Bioaccumulative potential** Data not available
- 12.4. Mobility in soil** Data not available
- 12.5. Results of PBT and vPvB assessment** Data not available
- 12.6. Other adverse effects**
- Environmental fate Data not available



Photochemical ozone creation potential	Data not available
Ozone depletion potential	Data not available
Endocrine disrupting potential	Data not available
Global warming potential	Data not available

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

This material, if discarded as produced, is not classified as a hazardous waste

Waste treatment containers to be used for product include IBCs or drums  
Recycle material where possible. If heavily soiled or disposal judged as necessary dispose to landfill in accordance with the Directive on waste 2008/98/EC

No specific waste treatment containers to be used for contaminated packaging, packaging should be recycled where possible. Waste treatment method for contaminated packaging should include a rinse with water. Dilute washings should be recycled where possible

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## SECTION 14: Transport information

<b>14.1. UN number</b>	Not applicable	
<b>14.2. UN proper shipping name</b>	ADR/RID	Not dangerous goods
	IMDG	Not dangerous goods
	IATA	Not dangerous goods
<b>14.3. Transport hazard class(es)</b>	Not applicable	
<b>14.4. Packing group</b>	Not applicable	
<b>14.5. Environmental hazards</b>	Not applicable	
<b>14.6. Special precautions for user</b>	Not applicable	
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable	

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## SECTION 15: Regulatory information

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

Ozone depleting substance (EC No 2037/2000):	Not applicable
Persistent organic pollutants (EC No 850/2004)	Not applicable
Export and import of dangerous chemicals (EC No 689/2008)	Not applicable
COMAH/ Seveso II categories or named substance	Not applicable
REACH Authorisations and/or Restrictions	Not applicable
Any other relevant Safety, health and environmental regulations:	Not applicable



15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for this product

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## SECTION 16: Other information

a) Changes made to SDS:

New safety datasheet

b) Key (or legend)

PPE	Personal Protective Equipment
IOELV	Indicative Occupational Exposure Limit Values
LD50	Lethal Dosage affecting 50% of sample population
LC50	Lethal Concentration affecting 50% of sample population
EC50	Effective Concentration affecting 50% of sample population
TWA	Time Weighted Average
WEL	Workplace Exposure Limit

c) Literature references

European Chemicals Agency:

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

Cole Palmer Chemical Resistance Database:

<http://www.coleparmer.co.uk/Chemical-Resistance>

HSE – EH40:2005 Workplace Exposure Limits:

<http://www.hse.gov.uk/pubns/priced/eh40.pdf>

NLM – Toxicology Data Network:

<https://www.nlm.nih.gov/>

Last accessed (26/05/2016)

Some physical properties reported from direct laboratory testing performed at Grotech Production Ltd

Some data has been derived from constituent safety datasheets

d) Details of relevant hazard information

H318	Causes serious eye damage
P264	Wash hands thoroughly after handling this product
P280	Wear eye protection
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310	Immediately call a POISON CENTER or doctor/physician
P337 + P313	If eye irritation persists: Get medical advice/attention
P501	Dispose of contents in accordance with local regulations, dispose of container to appropriate domestic recycling stream
R22	Harmful if swallowed
R38	Irritating to skin
R41	Risk of serious damage to the eyes
R48/22	Danger of serious damage to health by prolonged exposure through ingestion
S13	Keep away from food, drink and animal feeding-stuffs
S24/25	Avoid contact with skin and eyes



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S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical attention
S28	After contact with skin, wash immediately with plenty of water
S39	Wear eye protection
S46	If swallowed, seek medical advice immediately and show this document

e) Appropriate training for workers

Training for spillage handling and chemical handling is recommended

f) Classification method:

CLP classification, CHIP classification