

# Safety Data Sheet

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Last Revision Date 19-Sep-2024

Version: 2

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

### 1.1. Product identifier

Product Name	Universol Jade High K; 8-10-26+4MgO+TE
Product Code	2998-225HA
Unique Formula Identifier (UFI)	WD98-Y0Q4-X00C-TYND
Safety data sheet number	2998-225HA

REACH registration number	Not applicable
Pure substance/mixture	Mixture

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

Recommended Use	Fertilizer (PC12). Restricted to professional users.
Uses Advised Against	Consumer use (SU21)

Reason why uses advised against Use advised against in Chemical Safety Assessment per REACH Annex I point 7 2.3

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

Everris International B.V. Nijverheidsweg 1-5; 6422 PD Heerlen (NL); Tel: +31 (0)45-5609100; Fax: +31 (0)45-5609190  
For further information, please contact: INFO-RA@ICL-GROUP.COM  
Non-Emergency Telephone Number +31 (0) 418655700

### 1.4. Emergency telephone number

IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24/7)

Europe	112
Austria	+43 1 406 43 43
Belgium	+32 (0) 70 245 245
Denmark	+45 8212 1212
Finland	0800 147 111
France	+33 (0)1 45 42 59
Ireland	01 809 2566
Netherlands	088 755 8000 (24/7)
Norway	+47 22 59 13 00
Poland	+48 42 2538 400
Portugal	+351 800 250 250
Spain	+34 91 562 04 20
Sweden	112
Switzerland	Tox Info SW 145 (24h)
United Kingdom	111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation	Category 1 - (H318)
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### 2.2. Label elements



Contains Potassium sulphate;  $K_2SO_4$ , Urea phosphate;  $CH_7N_2O_5P$

**Signal word**

Danger

**Hazard statements**

H318 - Causes serious eye damage

**Precautionary Statements - EU (§28, 1272/2008)**

P280 - Wear protective gloves/protective clothing and eye/face 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

**2.3. Other hazards**

No information available.

## SECTION 3: Composition/information on ingredients

**3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	EC No (EU Index No)	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number	M-Factor	M-Factor (long-term)
Potassium nitrate; $KNO_3$ (7757-79-1)	231-818-8	25 - 40%	Ox. Sol. 3 (H272)	-	01-2119488224-35-0020	-	-
Potassium sulphate; $K_2SO_4$ (7778-80-5)	231-915-5	10 - 25%	Eye dam. 1 (H318)	-	01-2119489441-34	-	-
Urea phosphate; $CH_7N_2O_5P$ (4861-19-2)	225-464-3	1 - 5%	Skin Corr. 1B (H314)	-	01-2119489460-34	-	-

\*The exact percentage (concentration) of composition has been withheld as a trade secret

**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L
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Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L
Potassium nitrate; KNO <sub>3</sub>	3015	5000	0.527
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	6600	2000	No data available

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

<b>Symptoms</b>	Burning sensation.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

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

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

<b>Hazardous Combustion Products</b>	Thermal decomposition can lead to release of toxic/corrosive gases and vapors.
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### 5.3. Advice for firefighters

<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
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## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8. Prevent entry into waterways, sewers, basements or confined areas.

### 6.2. Environmental precautions

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Take up mechanically, placing in appropriate containers for disposal. Use up product completely. Packaging material is industrial waste.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

<b>Reference to other sections</b>	See section 8 for more information. See section 13 for more information.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.
<b>General hygiene considerations</b>	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

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

<b>Storage Conditions</b>	KEEP OUT OF REACH OF CHILDREN AND PETS. Keep container tightly closed in a dry and well-ventilated place. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used packaging should be closed well. Keep away from frost.
<b>Packaging materials</b>	Keep in original container, tightly closed in a safe place.

### 7.3. Specific end use(s)

<b>Specific use(s)</b>	Fertilizer.
<b>Exposure scenario</b>	Mixture. Not required.
<b>Risk Management Methods (RMM)</b>	The information required is contained in this Safety Data Sheet.
<b>Other Information</b>	

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Potassium nitrate; KNO <sub>3</sub>	-	-	-	TWA: 5.0 mg/m <sup>3</sup>	-
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	-	-	-	TWA: 10.0 mg/m <sup>3</sup>	-
Chemical name	Italy MDLPS	Latvia	Lithuania	Luxembourg	Netherlands
Potassium nitrate; KNO <sub>3</sub>	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	-	-
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	-

### Biological occupational exposure limits

#### Derived No Effect Level (DNEL)

No information available.

## 8.2. Exposure controls

**Personal protective equipment** Wear normal, light working clothing

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains.

## SECTION 9: Physical and chemical properties

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

**Physical state** Solid  
**Appearance:** Powder(s)  
**Color:** Off-white  
**Odor:** Fertilizer.

Property	Values	Remarks • Method
<b>Melting Point/Freezing Point:</b>	No data available	None known
<b>Boiling Point/Range:</b>	No data available	None known
<b>Flammability (solid, gas):</b>	No data available	None known
<b>Flammability Limits in Air:</b>		None known
<b>Upper Flammability Limit:</b>	Not applicable	
<b>Lower Flammability Limit:</b>	Not applicable	
<b>Flash Point:</b>	No data available	None known
<b>Autoignition Temperature:</b>	No data available	None known
<b>Decomposition Temperature:</b>		None known
<b>pH</b>	4.0	@ 1 g/l
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic Viscosity:</b>	No data available	None known

Dynamic Viscosity:	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition Coefficient:	No data available	None known
Vapor Pressure:	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Density:	No data available	
Vapour density	No data available	None known
Particle characteristics		
Particle Size	No data available	
Particle Size Distribution	No data available	

**9.2. Other information** Not applicable

9.2.1. Information with regard to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity Not reactive.

### 10.2. Chemical stability

Stability Stable under normal conditions.

**Specific methods:**

Sensitivity to mechanical impact Not sensitive.  
Sensitivity to static discharge Not sensitive.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Hazardous Decomposition Products None under normal use conditions. None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Causes serious eye damage.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. May cause irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Redness. Burning. May cause blindness.

**Numerical measures of toxicity**

**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium nitrate; KNO <sub>3</sub>	= 3015 mg/kg ( Rat )	> 5000 mg/kg ( Rat )	> 0.527 mg/L ( Rat ) 4 h
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	= 6600 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Urea phosphate; CH <sub>7</sub> N <sub>2</sub> O <sub>5</sub> P	= 2600 mg/kg (Rat)	-	-

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:**

<b>Skin corrosion/irritation</b>	May cause skin irritation.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.
<b>Respiratory or skin sensitization</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met. The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met
<b>Endocrine disrupting properties</b>	
Not applicable.	

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	EC50: =2900mg/L (72h, Desmodemus subspicatus)	LC50: =653mg/L (96h, Lepomis macrochirus) LC50: =3550mg/L (96h, Lepomis macrochirus) LC50: 510 - 880mg/L (96h, Pimephales promelas)	-	EC50: =890mg/L (48h, Daphnia magna)

## 12.2. Persistence and degradability

**Persistence and Degradability:** No information available.

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

## Component Information

## 12.4. Mobility in soil

**Mobility in soil** no data available.

**Mobility** no data available.

## 12.5. Results of PBT and vPvB assessment

### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Potassium nitrate; KNO <sub>3</sub>	The substance is not PBT / vPvB
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	The substance is not PBT / vPvB
Urea phosphate; CH <sub>7</sub> N <sub>2</sub> O <sub>5</sub> P	The substance is not PBT / vPvB

## 12.6. Endocrine disrupting properties

## 12.7. Other adverse effects

. No information available.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Other Information** Use up product completely. Packaging material is industrial waste. If material is uncontaminated, collect and reuse as recommended for product.

# SECTION 14: Transport information

## IMDG



<u>14.1</u>	
UN-No:	Not regulated
<u>14.2</u>	
Proper shipping name:	Not regulated
<u>14.3</u>	
Transport hazard class(es)	Not regulated
<u>14.4</u>	
Packing group:	Not regulated
<u>14.5</u>	
Marine Pollutant:	Not regulated
<u>14.6</u>	
Special Provisions	None
<u>14.7</u>	
Bulk transport according Annex II of MARPOL and IBC Code	No data available

#### ADR

<u>14.1</u>	
UN-No:	Not regulated
<u>14.2</u>	
Proper shipping name:	Not regulated
<u>14.3</u>	
Transport hazard class(es)	Not regulated
<u>14.4</u>	
Packing group:	Not regulated
<u>14.5</u>	
Environmental hazards	Not regulated
<u>14.6</u>	
Special Provisions	None

#### IATA

<u>14.1</u>	
UN number or ID number	Not regulated
<u>14.2</u>	
Proper shipping name:	Not regulated
<u>14.3</u>	
Transport hazard class(es)	Not regulated
<u>14.4</u>	
Packing group	Not regulated
<u>14.5</u>	
Environmental hazards	Not regulated
<u>14.6</u>	
Special Provisions	None

## SECTION 15: Regulatory information

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

#### National regulations

<b>Denmark</b> Sikkerhedsgruppe DK	C
<b>France</b> ICPE	Classified installation: article 1230
<b>Germany</b> Gefahrstoffverordnung (Germany) TRGS 511 Water hazard class (WGK)	C III slightly hazardous to water (WGK 1)

Chemical name	German WGK Section
Potassium nitrate; KNO <sub>3</sub>	Reg. no. 346, hazard class 1 - slightly hazardous to water
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	Reg. no. 255, hazard class 1 - slightly hazardous to water
Urea phosphate; CH <sub>7</sub> N <sub>2</sub> O <sub>5</sub> P	Reg. no. 6537, hazard class 1 - slightly hazardous to water

## Netherlands

### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Take note of Directive 94/33/EC on the protection of young people at work

Not to be used by professional users below 18 years of age, see the National Working Environment Authorities Executive Order on young peoples dangerous work.

### Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors

Chemical name	REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors
Potassium nitrate; KNO <sub>3</sub>	Present

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point

### Persistent Organic Pollutants

Not applicable

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

### EU - Plant Protection Products (1107/2009/EC)

### Biocidal Products Regulation (EU) No 528/2012 (BPR)

### International Inventories:

TSCA	This product complies with USINV
PICCS:	This product does not comply with phil:
Australian Inventory of Chemical Substances	This product does not comply with AICS

### Legend:

DSL/NDSL	- Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	- Japan Existing and New Chemical Substances
IECSC	- China Inventory of Existing Chemical Substances
KECL	- Korean Existing and Evaluated Chemical Substances
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AICS	- Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

### Chemical Safety Report

Substance(s) usage is covered according to Reach regulation 1907/2006

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H360FD - May damage fertility. May damage the unborn child

#### Legend

SVHC: Substances of Very High Concern for Authorization:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

#### Classification procedure

- Calculation method
- Expert judgment and weight of evidence determination

Classification procedure	
<i>Classification according to Regulation (EC) No. 1272/2008 [CLP]</i>	<i>Method Used</i>
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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**Last Revision Date** 19-Sep-2024

**Restrictions on use** Restricted to professional users.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

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**End of Safety Data Sheet**