# **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

Revision Date 14-Jun-2021 Version: 1

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

1.1. Product identifier

Product Name Universol Blue 323; 18-11-18+2.5MgO+TE Product Code 2041-225HA

Unique Formula Identifier (UFI) 2041-225HA W7N5-M057-T00S-S8YN

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-MSDS@EVERRIS.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)

Austria	+43 1 406 43 43
Belgium	070 245 245
Denmark	+45 8212 1212
Finland	0800 147 111
France	+ 33 (0)1 45 42 59
Ireland	01 809 2566
Netherlands	+31 88 75 585 61
Norway	+45 735 80500
Poland	+48 42 2538 400
Portugal	+351 800 250 250
Spain	+34 91 562 04 20
Sweden	112
Switzerland	Tox Info Switzerland 145 (24h)
United Kingdom	111

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 1 - (H318)
Oxidizing solids	Category 3 - (H272)

### 2.2. Label elements



Contains Potassium sulphate; K2SO4, Urea phosphate; CH7N2O5P

## Signal word

Danger

#### **Hazard statements**

H318 - Causes serious eye damage

H272 - May intensify fire; oxidizer

### Precautionary Statements - EU (528, 1272/2008)

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P220 - Keep/Store away from clothing/ combustible materials

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

### 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	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number	M-Factor	M-Factor (long-term )
Ammonium nitrate; NH4NO <sub>3</sub> (6484-52-2)	229-347-8	25 - 40%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	Eye Irrit. 2 :: C>=80%	01-2119490981-27	1	-
Potassium nitrate; KNO <sub>3</sub> (7757-79-1)	231-818-8	25 - 40%	Ox. Sol. 3 (H272)	-	01-2119488224-35	-	-
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> (7778-80-5)	231-915-5	5 - 10%	Eye Dam. 1 (H318)	-	01-2119489441-34	-	-
Urea phosphate; CH <sub>7</sub> N <sub>2</sub> O <sub>5</sub> P (4861-19-2)	225-464-3	1 - 5%	Skin Corr. 1B (H314)	Skin Corr. 1B ::  C>=25%  Skin Irrit. 2 ::  10%<=C<25%  Eye Irrit. 2 ::  10%<=C<25%  Skin Irrit. 3 ::  C<=10%	01-2119489460-34	-	-

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

Acute Toxicity Estimate No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	2217	5000	88.8
Potassium nitrate; KNO <sub>3</sub>	3015	No data available	No data available
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	6600	No data available	No data available

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aid measures should be executed by trained

personnel only.

**Inhalation** Remove to fresh air. In the case of inhalation of aerosol/mist consult a physician if

necessary. If not breathing, give artificial respiration. If symptoms persist, call a physician.

Dusty conditions are unlikely if product is used as intended. However, if prolonged

inhalation of dust occurs, remove casualty to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact**Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do not induce vomiting without medical advice.

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

Symptoms None known.

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

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**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.

**Hazardous Combustion Products** Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear.

# **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Wear protective gloves/protective clothing and eye/face

protection.

**Other information** Refer to protective measures listed in Sections 7 and 8.

For emergency responders

Use personal protection recommended in Section 8. Prevent entry into waterways, sewers,

basements or confined areas.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information. Do not flush into surface water or

sanitary sewer system.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal. Use up product

completely. Packaging material is industrial waste.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid

contact with eyes. Avoid generation of dust. In case of insufficient ventilation, wear suitable

respiratory equipment.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Keep away from

food, drink and animal feeding stuffs. When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions 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.

Packaging materials Keep in original container, tightly closed in a safe place.

7.3. Specific end use(s)

Specific use(s) Fertilizer.

**Exposure scenario** Mixture. Not required.

**Identified uses** 

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other Information

LGK (Germany) TRGS 510 5.1C

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	•	TWA: 10.0 mg/m <sup>3</sup>	•	-	•
Chemical name	Italy	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**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

8.2. Exposure controls

Personal protective equipment Wear normal, light working clothing

**Eye/face protection** Wear safety glasses with side shields (or goggles). **Hand protection** Nitrile rubber (0.26 mm). Break through time. > 8 h.

**Skin and body protection** Lightweight protective clothing.

**Respiratory protection**No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**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 stateSolidAppearance:Powder(s)Color:Off-white, blueOdor:Fertilizer.

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting Point/Freezing Point:No data availableNone knownBoiling Point/Range:No data availableNone knownFlammability (solid, gas):No data availableNone knownFlammability Limits in Air:None known

Upper Flammability Limit:

Lower Flammability Limit:

No data available
No data available

Flash Point:No data availableNone knownAutoignition Temperature:No data availableNone knownDecomposition Temperature:None known

pН 3.0 (1 g/l) None known pH (as aqueous solution) No data available None known **Kinematic Viscosity:** 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

Density:

No data available

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

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 Keep away from catalysts like derivates of hexavalent chromium and metal halides. Keep

away from flammable products (fuels) like charcoal, wood, flour, soot etc.

## 10.6. Hazardous decomposition products

Hazardous Decomposition Products 
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** 

Inhalation Specific test data for the substance or mixture is not available. Inhalation of dust in high

concentration may cause irritation of respiratory system.

Eye contact Specific test data for the substance or mixture is not available. May cause irritation.

Skin contact May cause irritation.

May cause gastrointestinal discomfort if consumed in large amounts. Ingestion

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

**Symptoms** No information available.

### Numerical measures of toxicity

Based on available data, the classification criteria are not met

## **Acute toxicity**

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

93,036.00 mg/kg ATEmix (oral)

0 % of the mixture consists of ingredient(s) of unknown toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	= 2217 mg/kg (Rat)	> 5000 mg/kg	> 88.8 mg/L (Rat) 4 h
Potassium nitrate; KNO₃	= 3015 mg/kg (Rat)	> 2000 mg/kg	> 527 mg/m <sup>3</sup>
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	-	-

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Based on available data, the classification criteria are not met. Respiratory or skin sensitization

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Reproductive toxicity STOT - single exposure Based on available data, the classification criteria are not met. STOT - repeated exposure Based on available data, the classification criteria are not met Aspiration hazard Based on available data, the classification criteria are not met

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

## SECTION 12: Ecological information

12.1. Toxicity

**Ecotoxicity** Based on available data, the classification criteria are not met.

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

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

### 12.2. Persistence and degradability

Persistence and Degradability: No information available.

12.3. Bioaccumulative potential

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

Chemical name	Partition coefficient
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	-3.1

### 12.4. Mobility in soil

Mobility in soilno data available.Mobilityno data available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
Ammonium nitrate; NH₄NO₃	The substance is not PBT / vPvB PBT assessment does not apply Further
	information relevant for the PBT assessment is necessary
Potassium nitrate; KNO₃	The substance is not PBT / vPvB PBT assessment does not apply
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	The substance is not PBT / vPvB PBT assessment does not apply
Urea phosphate; CH7N2O5P	The substance is not PBT / vPvB PBT assessment does not apply

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

## 12.7. Other adverse effects

# **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 14.1

<del>UN-No</del>: 1479

14.2

Proper shipping name: Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)

14.3

Transport hazard class(es) 5.1

14.4

Packing group: III
Limited Quantity 5 kg

<u>14.5</u>

Marine Pollutant: Not regulated

 14.6

 EmS:
 F-A / S-Q

 Special Provisions
 223, 274, 900

14.7

Bulk transport according Annex II of MARPOL and IBC Code No data available

ADR

14.1 UN-No: 1479

14.2

Proper shipping name: Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)

14.3

Transport hazard class(es) 5.1

14.4
Packing group: III

14.5

Environmental hazards Not regulated

14.6

Special Provisions 274
Tunnel restriction code E
Limited Quantity 5 kg

IATA

14.1 UN number or ID number 1479

14.2

Proper shipping name: Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)

Ш

14.3

Transport hazard class(es) 5.1 14.4

Packing group

14.5 Environmental hazards Not regulated

14.6

Special Provisions A3



# **SECTION 15: Regulatory information**

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

Denmark France

ICPE Classified installation: article 4706

Germany

LGK (Germany) TRGS 510 5.1C Gefahrstoffverordnung (Germany) TRGS 511 C III

Chemical name	German WGK Section
Ammonium nitrate; NH₄NO₃	1
Potassium nitrate; KNO₃	1
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	1
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

#### **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 does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
	58.	-
Ammonium nitrate; NH 4NO3		

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

	REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	Present (16% by weight of N in relation to AN or higher)
Potassium nitrate; KNO <sub>3</sub>	Present

## **Persistent Organic Pollutants**

Not applicable

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
	350	2500
Ammonium nitrate; NH 4NO3		

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

Not applicable

## **International Inventories:**

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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

H314 - Causes severe skin burns and eye damage

H319 - Causes serious eye irritation

H272 - May intensify fire; oxidizer

H318 - Causes serious eye damage

#### Legend

SVHC: Substances of Very High Concern for Authorization:

## Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

#### 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

Prepared by Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

Revision Date 14-Jun-2021

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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Revision Date 14-Jun-2021

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**End of Safety Data Sheet**