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 15-Jun-2021

Version: 1

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

1.1. Product identifier Product Name Product Code Unique Formula Identifier (UFI) Pure substance/mixture

Universol Hard water 211; 23-10-10+2MgO+TE 2032-225HA 8FM5-10XP-200A-U6R2 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	
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Oxidizing solids	Category 3 - (H272)

2.2. Label elements



Signal word Warning

Hazard statements

H315 - Causes skin irritation H319 - Causes serious eye irritation H272 - May intensify fire; oxidizer

Precautionary Statements - EU (528, 1272/2008)

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 and eye/face protection
P337 + P313 - If eye irritation persists: Get medical advice/attention

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; NH4NO3 (6484-52-2)	229-347-8	40 - 65%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	Eye Irrit. 2 :: C>=80%	01-2119490981-27	-	-
Urea phosphate; CH7№20₅P (4861-19-2)	225-464-3	10 - 25%	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	-	-
Potassium nitrate; KNO ₃ (7757-79-1)	231-818-8	10 - 25%	Ox. Sol. 3 (H272)	-	01-2119488224-35	-	-

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	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L
Ammonium nitrate; NH₄NO ₃	2217	5000	88.8
Potassium nitrate; KNO3	3015	No data available	No data available

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.	
Eye contact	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. Get medical attention if irritation develops and persists.	
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.	
Self-protection of the first aider	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	
Symptoms	May cause redness and tearing of the eyes. Burning sensation.	
4.3. Indication of any immediate me	edical attention and special treatment needed	
Note to physicians	Treat symptomatically.	

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the 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. Thermal decomposition can lead to release of irritating and toxic gases and vapors The product itself does not burn May intensify fire; oxidizer

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

5.3. Advice for firefighters

Special protective equipment and	Firefighters should wear self-contained breathing apparatus and full firefighting turnout
precautions for fire-fighters	gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.

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	Prevent further leakage or spillage if safe to do so.
6.3. Methods and material for contai	nment 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	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. Take off contaminated clothing and wash before reuse.
General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.
7.2. Conditions for safe storage, inc	cluding 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.
ldentified uses Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

Other Information

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name European Union Austria Belgium Bulgaria Croatia

2032-225HA --- Universol Hard water 211; 23-10-10+2MgO+TE

Potassium nitrate; KNO3	-	-	-	TWA: 5.0 mg/m ³	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ammonium nitrate; NH4NO3	-	TWA: 10.0 mg/m ³	-	-	-
Chemical name	Italy	Latvia	Lithuania	Luxembourg	Netherlands
Potassium nitrate; KNO3	-	TWA: 5 mg/m ³	TWA: 5 mg/m ³	-	-

Biological occupational exposure limits

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	If splashes are likely to occur, wear safety glasses with side-shields.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved 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	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.
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

Physical state	Solid	
Appearance:	Powder(s), Prills	
Odor:	Fertilizer.	
Property_	Values_	Remarks • Method
Melting Point/Freezing Point:	No data available	None known
Boiling Point/Range:	No data available	None known
Flammability (solid, gas):	No data available	None known
Flammability Limits in Air:		None known
Upper Flammability Limit:	No data available	
Lower Flammability Limit:	No data available	
Flash Point:	No data available	None known
Autoignition Temperature:	No data available	None known
Decomposition Temperature:		None known
pH .	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: Relative density Bulk density Density: Vapour density Particle characteristics Particle Size Particle Size Distribution	No data available No data available No data available No data available No data available No data available No data available	None known None known None known
9.2. Other information		
9.2.1. Information with regard to ph Not applicable	ysical hazard classes	
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 Sensitivity to static discharge	Not sensitive. Not sensitive.	
10.3. Possibility of hazardous react	ions	
Possibility of hazardous reactions	None under normal processing.	
10.4. Conditions to avoid		
Conditions to avoid	Keep away from open flames, hot surf	aces and sources of ignition.
10.5. Incompatible materials		
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.	
10.6. Hazardous decomposition pro	oducts	
Hazardous Decomposition Products	None under normal processing. Thern toxic gases and vapors.	nal decomposition can lead to release of irritating and

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. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact	Causes skin irritation.
Ingestion	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. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium nitrate; NH4NO3	= 2217 mg/kg (Rat)	> 5000 mg/kg	> 88.8 mg/L (Rat)4 h
Urea phosphate; CH7N2O₅P	2600 mg/kg	-	-
Potassium nitrate; KNO3	= 3015 mg/kg (Rat)	> 2000 mg/kg	> 527 mg/m ³

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

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity Reproductive toxicity	Based on available data, the classification criteria are not met. 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.
STOT - single exposure STOT - repeated exposure Aspiration hazard Endocrine disrupting properties	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met This product does not contain any known or suspected endocrine disruptors.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

 12.2. Persistence and degradability

 Persistence and Degradability:
 No infor

No information available.

There is no data for this product.

12.3. Bioaccumulative potential

Bioaccumulation

Page 7 of 12

Component Information

Chemical name	Partition coefficient
Ammonium nitrate; NH4NO3	-3.1

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
Ammonium nitrate; NH4NO3	The substance is not PBT / vPvB PBT assessment does not apply Further
	information relevant for the PBT assessment is necessary
Urea phosphate; CH7N2O5P	The substance is not PBT / vPvB PBT assessment does not apply
Potassium nitrate; KNO ₃	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	
UN-No:	1479
<u>14.2</u>	
Proper shipping name:	Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)
<u>14.3</u>	
Transport hazard class(es)	5.1
<u>14.4</u>	
Packing group:	III
Limited Quantity	5 kg
<u>14.5</u>	
Marine Pollutant:	Not regulated
<u>14.6</u>	
EmS:	F-A / S-Q
Special Provisions	223, 274, 900
<u>14.7</u>	
Bulk transport according Annex II of MARPOL and IBC Cod	e No data available

ADR	
<u>14.1</u>	
UN-No:	1479
<u>14.2</u>	
Proper shipping name:	Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)
<u>14.3</u>	- <i>i</i>
Transport hazard class(es)	5.1
<u>14.4</u>	
Packing group:	III
14.5 Environmental hazards	Not regulated
<u>14.6_</u>	Not regulated
Special Provisions	274
Tunnel restriction code	E
Limited Quantity	5 kg
ΙΑΤΑ	
14.1	
UN number or ID number	1479
<u>14.2</u>	
Proper shipping name:	Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)
<u>14.3</u>	
Transport hazard class(es)	5.1
<u>14.4</u>	
Packing group	III

Not regulated

A3

14.5 Environmental hazards 14.6 Special Provisions



SECTION 15: Regulatory information

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

National regulations

Denmark France ICPE

Classified installation: article 4706

Germany
Gefahrstoffverordnung (Germany) TRGS 511
Water hazard class (WGK)

C III non-hazardous to water (nwg)

Chemical name	German WGK Section
Ammonium nitrate; NH4NO3	1
Urea phosphate; CH7N2O5P	Reg. no. 6537, hazard class 1 - slightly hazardous to
	water
Potassium nitrate; KNO ₃	1

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)

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

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
Ammonium nitrate; NH4NO3	Present (16% by weight of N in relation to AN or higher)
Potassium nitrate; KNO3	Present

Persistent Organic Pollutants

Not applicable

Not applicable

Named dangerous substances per Seveso Directive (2012/18/EU)

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

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

EU - Biocides

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

H272 - May intensify fire; oxidizer

- H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage
- H315 Causes skin irritation

H319 - Causes serious eye irritation

H360FD - May damage fertility. May damage the unborn child

Legend

SVHC: Substances of Very High Concern for Authorization:

LegendSection 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONTWATWA (time-weighted average)STEL

TWA	TWA (time-weighted average)
Ceiling	Maximum limit value

STEL (Short Term Exposure Limit) Skin designation

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

Prepared by

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

Revision Date

15-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

This information contained herein is, to the best of Everris' knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Everris shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Everris shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

End of Safety Data Sheet