SAFETY DATA SHEET in accordance with Regulation (EC) No. 1907/2006



# K<sub>2</sub>O FORCE

Version 2 /ENG

# SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier:

Trade name: K<sub>2</sub>O FORCE

Product code: K<sub>2</sub>OF

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

Use: Biostimulant

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

**Company:** NOROFERT SA

Street LT. AV. Şerban Petrescu, No. 20, Sector 1, Bucharest, Romania

Phone: +40766 080 767

E-mail address of the person responsible for SDS: <a href="mailto:office@norofert.ro">office@norofert.ro</a>

#### **1.3.** The phone number that can be called in case of emergency:

NOROFERT SA – 0727034308 or Toxicological Information Centre: Bucharest Public Health Institute Tel: 021 3183606 or 021 3183620/ext 235 (Monday-Friday 8:00-15:00)

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

#### 2.1. Classification of the substance or mixture

#### According to Regulation (EC) No 1272/2008

It is not classified; it does not meet the conditions for classification.

#### 2.2 Label elements

#### Danger phrases:

Not applicable

#### Precautionary phrases:

P501 – Dispose of contents/container in accordance with national/international regulations

#### 2.3. Other hazards

This mixture does not contain components considered to be bioaccumulative and toxic (PBT).

# **SECTION 3: Composition/Information on Ingredients**

#### 3.1 Active substance

Not applicable. The product is not a substance.

Version 2 /ENG

#### 3.2 Mixtures Chemical nature

Soluble concentrate

IUAPC name	EC	CAS	Conc. %, g/kg, g/l	Classification Cf. Reg. no. 1272/2008
Hydrolyzed proteins of vegetable origin	310-296-6	9015-54-7	4%	Unrated
Humic acids, potassium salts	271-030-1	68514-28-3	2%	Skin Irrit. 2; H315
Potassium sulphate	231-915-5	7778-80-5	10%	Unrated

# SECTION 4: First-Aid Measures

# 4.1 Description of first aid measure

General indications	Keep the product container, label or safety data sheet in case you consult a doctor.	
If inhaled	It will go out into the fresh air. The person will be put to bed and kept warm. If symptoms persist, consult a doctor.	
On skin contact	Contaminated clothing will be removed immediately. Wash off immediately with plenty of soap and water. If irritation persists, call a doctor.	
On contact with eyes	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. An immediate medical examination is required.	
On ingestion	Vomiting will not be induced. It will rinse the mouth very well. A doctor will be notified immediately.	
4.2 Most important sym	ptoms and effects, both acute and delayed	
Symptoms	Sensitization, allergic behavior	
4.3 Indication of any immediate medical attention and special treatment needed		
Treatment	No specific antidote is known. It will be treated symptomatically.	

# SECTION 5: Firefighting Measures 5.1 Extinguishing media:

Suitable	Water spray, Dry powder, Sand, Alcohol resistant foam, Carbon dioxide
Not suitable	Powerful water spray

Version 2 /ENG

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

Specific risks during firefighting: The product is not flammable under normal conditions. Decomposition and combustion products of the mixture may be toxic - carbon oxides, nitrogen oxides.

### **5.3 Advice for firefighters**

Special	protective	equipment	- Full	protective	equipment	and	self-contained	breathing
			арра	ratus will b	e worn			

Additional information Contaminated extinguishing water shall be prevented from entering the sewage system and running water. Firefighting is done against the wind. Closed containers located near sources of fire will be cooled by spraying with water jets.

# **SECTION 6: Accidental Release Measures**

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

Precautionary measures Personal protective equipment will be used. Avoid contact with spilled product or contaminated surfaces. Adequate ventilation shall be provided. Personnel will be evacuated to safe places.

#### 6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater.

The product will be used according to the instructions on the label.

# 6.3 Methods and material for fire containment and cleaning

Cleaning methods It will be absorbed with an inert absorbent material (eg sand, silica gel, universal binder, sawdust). The product will be collected and stored in a tightly closed and airtight container. The contaminated surface will be carefully cleaned. Contaminated wash water shall be conserved and disposed of.

Additional observations Never put the spilled product back into the packaging for reuse.

# 6.4 Reference to other sections

For information on safe handling, see section 7.

Information on personal protective equipment, see section 8.

For waste disposal information, see section 13

#### SECTION 7: Handling and Storage 7.1 Precautions for safe handling

Advices for safe handling

- When handling closed packages/containers, no special precautions are necessary, the general rules regarding the handling of packages will be observed.

Version 2 /ENG

Fire and explosion protection measures

- No special precautions are required
- Hygiene measures Remove personal protective equipment (PPE) used immediately after working with this product. Remove contaminated clothing immediately and clean thoroughly before reuse. Always wash your hands thoroughly with soap and water before and after eating, after drinking, after chewing gum, smoking, using the toilet or cosmetics.

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

Requirements for storage spaces and containers

- Store in a dry, cool and well-ventilated place accessible only to authorized personnel. It shall be protected from direct sunlight and protected from frost.

Protective measures in case of joint storage with other materials

- Segregate from foods and animal feeds.

Stability during storage

- Storage temperature 5<sup>o</sup>C – 25<sup>o</sup> C

#### 7.3 Specific end use(s)

The indications on the label and those in the instructions will be followed

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1 Control parameters

It does not contain substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### Personal protective equipment

- Respiratory protection In the anticipated exposure conditions, no individual respiratory equipment is required. Respiratory protection should be worn for short-term exposures to avoid any secondary risk, after all measures have been taken to reduce exposure at the source, e.g. isolation and/or ventilation with air extraction. Always follow the manufacturer's instructions for use and maintenance of respiratory equipment. A particle filter mask (protection factor 20) according to EN149FFP3 or EN140P3 or equivalent shall be worn.
- Hand protectionSuitable gloves, resistant from a chemical point of view (EN 374)and to prolonged contact (Recommended: protection index 6,

K <sub>2</sub> O F	ORCE
Version 2	2 /ENG



Revision date: 15.01.2022

	corresponds to > 480 minutes penetration time, according to EN 374): e.g. nitrile rubber (0.4 mm), chlorprenic rubber (0.5 mm), butyl rubber (0.7 mm) and others.
Eye protection	Safety glasses with side shields (EN 166)
Body protection	Body protection must be chosen according to the activity and possible exposure. For example: apron, protective boots, protective overalls (according to EN 14605 in the case of splashes or EN ISO 13982 in the case of dust).
Hygiene measures	The contaminated clothes and gloves will be removed and washed, inside and out, before reuse. Wash your hands before breaks and immediately after handling the product. Do not eat, do not drink, and do not smoke when handling the product.
Protection measures	It is recommended to wear work equipment with long sleeves. Store work equipment separately. Keep away from food, drink or animal food.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Form	liquid		
Color	brown		
Odor	specific		
Odor threshold	No data available		ble
РН	6.0 - 9.0		
Melting point/boiling range			No data available
Boiling point/boiling range			No data available
Flash point			No data available
Auto-ignition temperature			No data available
Flammability			No data available
Lower explosion limit		No data available	
Upper explosion limit		No dat	a available
Vapor pressure		No dat	a available
Relative vapor density		No data available	

Version 2 /ENG



Relative density	No data available
Density (20 <sup>o</sup> C)	$1,05 \pm 0.1$
Solubility in water	Soluble
The n-octanol/water parti	tion Coeff No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Particle characteristics	No data available
Oxidizing properties	No data available
Explosion hazard	Not explosive
Evaporation rate	No data available
9.2 Other information	No other data available

# SECTION 10: STABILITY AND REACTIVITY

#### **10.1 Reactivity**

The product is stable under normal conditions of use/handling and storage.

# 10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated

**10.3 Possibility of hazardous reactions** No data available

# 10.4 Conditions to avoid

Protection from extreme temperatures and direct sunlight.

**10.5 Incompatible materials** Not known

# **10.6 Hazardous decomposition products**

Under the influence of high temperature, carbon and nitrogen oxides can be released.

# SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute oral toxicity:	LD50 rat
	Dossage: > 3000 mg/kg
Acute inhalation toxicity	This is not the case as the product is a concentrated suspension

Version 2 /ENG



Revision date: 15.01.2022

Acute dermal toxicity	LD50 rat	
	Dossage: > 2000 mg/kg	
Skin Corrosion/Irritation	Does not irritate the skin	
Serious eye damage/irritation	Does not irritate the eyes	
Respiratory or skin sensitization	Not sensitizing	
STOT – Specific target organ toxicity – sing	le exposure	
	No data available	
STOT – Specific target organ toxicity – single exposure		
	No data available	
Mutagenicity assessment	No data available	
Assessment of carcinogenicity	No data available	
Reproductive toxicity assessment	No data available	
Developmental toxicity assessment	No data available	
Inhalation hazard	No data available	
11.2 Information regarding other hazards	None	

# SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

- Aquatic toxicity (acute)	No data available
- Aquatic toxicity (chronical)	No data available
- Daphnia toxicity	No data available
<ul> <li>Toxicity to algae/aquatic plants</li> </ul>	No data available

# 12.2 Persistence and degradability

Biodegradable substance under aerobic conditions. Amino acids are metabolized by living organisms that occur in the environment. Biotic degradation products are used in processes. Biochemical processes take place at the cellular level and therefore the entire product is subject to biodegradation.

# 12.3 Bioaccumulative potential

Amino acids are used in the production of proteins and therefore metabolized immediately. They are present in the environment for a very short period of time and do not bioaccumulate.

K <sub>2</sub> O	FORCE
------------------	-------

Version 2 /ENG

12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	This mixture does not contain any substance considered to be persistent, bioaccumulative and toxic (PBT)
12.6 Endocrine disrupting properties	No data available
12.7 Other adverse effects	No data available

#### SECTION 13: DISPOSAL CONSIDERATIONS

#### **13.1** Waste treatment methods

Product:	Do not contaminate waterways, waterways or ditches with the product or used containers. Waste will not be disposed of down the drain. Where recycling is possible, this is preferred over disposal or incineration. If recycling is not possible, it will be disposed of in accordance with local regulations.
Contaminated packaging	The rest of the content will be emptied. The containers must be washed 3 times. Empty containers must be taken to an authorized waste handling facility for recycling and disposal.
Waste code	uncleaned packaging
	15.01.10 packaging containing residues of dangerous substances or contaminated with dangerous substances or contaminated with dangerous substances
Legislation	Emergency Ordinance 92/2021 regarding the waste regime
	GD 856/2002 regarding waste management records and for the approval of the list including waste, including hazardous waste
	Law 249/2015 regarding the management of packaging and packaging waste

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

# According to ADN/ADR/RID/IATA this product is not classified as dangerous

#### **14.1 – 14.5** Not applicable

**14.6 Special precautions for users** No data available

# 14.7 Shipping in bulk under IMO instruments

Not applicable to products like the one supplied

SAFETY DATA SHEET in accordance with Regulation (EC) No. 1907/2006

# K<sub>2</sub>O FORCE

Version 2 /ENG

#### **SECTION 15: REGULATORY INFORMATION**

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

REACH - Restrictions on the production, placing on the market and use of certain dangerous substances, preparations, and articles (Annex XVII): Not applicable

REACH - List of candidate substances of particular concern for authorization (Article 59):	
	Not applicable
REACH - List of substances subject to authorization (Annex XIV):	Not applicable
Regulation (EC) no. 1005/2009 on substances that deplete the ozone layer:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (reform):	Not applicable
Regulation (EC) no. 649/2012 of the European Parliament and of the Cour	ncil regarding the ex

Regulation (EC) no. 649/2012 of the European Parliament and of the Council regarding the export and import of dangerous chemical products: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable

#### **15.2 Chemical Safety Assessment**

Chemical Safety Assessment is not required for this substance.

#### **SECTION 16: OTHER INFORMATION**

#### Full text of the H statements

#### Full text of other abbreviations

ADN	DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the inland transport of dangerous goods
ADR	European Agreement on the International Carriage of Dangerous Goods by Road
CAS-Nr.	CAS registry number (engl. Chemical Abstracts Service)
Conc.	Concentration EC-No. Number European Community
ECx	The effective concentration for x%
EINECS	European inventory of existing chemicals introduced on the market
ELINCS	European list of notified chemical substances
EN	European standards
ETA	Acute toxicity estimate EU European Union

Version 2 /ENG

IATA	International Air Transport Association	
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)	
ICx	The inhibitory concentration for x%	
IMDG	International Maritime Dangerous Goods	
LCx	Lethal concentration for x%	
LDx	Lethal dose for x%	
LOEC/LOEL	Minimum observable effect dose	
MARPOL	International Convention for the prevention of marine pollution from ships	
N.O.S	Not otherwise specified	
NOEC/NOEL	Concentration/Dose no observable effect	
OCDE	Organization for Economic Cooperation and Development	
OMS	World Health Organization	
RID	Regulation on the international transport of dangerous goods by road	
TWA	Time weighted average	
UN	United Nations	

The information contained in this safety data sheet has been established based on our knowledge, information and assumptions at the date of publication of this document. The information provided is for guidance only for safe handling, use, processing, storage, transport, disposal and release, and shall not be considered a warranty or specification of quality. The information relates only to the specific material designated and is not valid for the material used in combination with any other materials or in any other process, other than that specified in the text.

This Safety Data Sheet is made in accordance with Regulation (EC) no. 1907/2006 of the European Parliament and of the Council on the registration, evaluation, authorization, and restriction of chemical substances (REACH)