SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Naturamer Rapeseed

Creation date	14th April 2025		
Revision date	14th April 2025	Version	1.0

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

1.1. Product identifier — Naturamer Rapeseed

Substance / mixture: mixture

UFI: XRA0-Y03J-900Q-585W

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

Mixture's intended use

Concentrated fertilizer intended for restoring nutrient deficiencies in agricultural plants, for foliar fertilization.

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name	UAB "BS Chemical"
Address	Briedžio g. 13, Kretinga Lithuania
Phone	+37066373748
E-mail	info@bs-chemical.lt
Web address	www.bs-chemical.com

Competent person responsible for the safety data sheet

Name	Gintarė Lisauskienė
E-mail	gintare@bs-chemical.lt

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Skin Irrit. 2, H315
Aquatic Chronic 2, H411

Most serious adverse effects on human health and the environment

Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram

Signal word

Warning

Hazardous substances

1,2-benzisothiazol-3(2H)-one

Hazard statements

H315	Causes skin irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing mist/vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Supplemental information

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 26038-87-9 EC: 701-024-0	Reaction products of monoethanolamine and boric acid (1:3)	10-30	has not been classified, H?	
Index: 016-094-00-1 CAS: 7704-34-9 EC: 231-722-6	sulfur	10-20	Skin Irrit. 2, H315	
Index: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5	zinc oxide	5-10	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Beware of the contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

If inhaled

Throat irritation with chest tightness may occur.

If on skin

May cause an allergic skin reaction. Mild skin irritation/rash may occur at the site of contact.

If in eyes

Irritation and redness may occur.

If swallowed

Irritation, nausea.Throat irritation is possible.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition may release irritating gases and vapors.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

Storage temperature nuo +5 °C

7.3. Specific end use(s)

Use the product as described in section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

PNEC

zinc oxide		
Route of exposure	Value	Source
Freshwater environment	14.4-17.9 µg/l	ECHA
Water (intermittent release)	-	ECHA
Marine water	7.2-9 µg/l	ECHA
Sea sediments	-	ECHA
Microorganisms in sewage treatment	100-124.5 µg/l	ECHA
Freshwater sediment	146.-182.8 mg/kg of dry substance	ECHA

zinc oxide		
Route of exposure	Value	Source
Sea sediments	162.2-201.9 mg/kg of dry substance of sediment	ECHA

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	brown
color intensity	dark
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	7.6-8 (100% solution at 20-25 °C)
Kinematic viscosity	data not available
Solubility in water	miscible
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1.56-1.6 g/cm³ at 20-25 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid, suspension

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under normal conditions.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time.

Acute toxicity

Based on the available data, the criteria for classification of the mixture are not met.

Naturamer Rapeseed							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE	450000 mg/kg				Calculation of value	
Inhalation (vapor)	ATE	500 mg/l				Calculation of value	

sulfur							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD_{50}	2000 mg/kg bw					ECHA
Dermal	LD_{50}	2000 mg/kg bw		Rat (Rattus norvegicus)			ECHA

zinc oxide							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD_{50}	2000 mg/kg bw		Rat			ECHA
Inhalation	LC_{50}	1.79-5.7 mg/l	4 hours	Rat			ECHA
Oral	LD_{50}	2000 mg/kg bw		Rat			ECHA
	LOAEL	125 mg/kg bw/day		Rat			ECHA

Skin corrosion/irritation

Causes skin irritation.

sulfur				
Route of exposure	Result	Exposure time	Species	Source
Dermal	Irritating			ECHA

zinc oxide				
Route of exposure	Result	Exposure time	Species	Source
Dermal	No effect			ECHA

Corrosivity

zinc oxide				
Route of exposure	Result	Exposure time	Species	Source
Inhalation	Indeterminate			ECHA

Serious eye damage/irritation

Based on the available data, the criteria for classification of the mixture are not met.

sulfur				
Route of exposure	Result	Exposure time	Species	Source
Eye	No effect			ECHA

zinc oxide				
Route of exposure	Result	Exposure time	Species	Source
Eye	No effect			ECHA

Respiratory or skin sensitisation

May cause an allergic skin reaction.

sulfur					
Route of exposure	Result	Exposure time	Species	Sex	Source
Inhalation	Indeterminate				ECHA

zinc oxide					
Route of exposure	Result	Exposure time	Species	Sex	Source
Dermal	No effect				ECHA
Inhalation	Indeterminate				ECHA

Germ cell mutagenicity

Based on the available data, the criteria for classification of the mixture are not met.

sulfur					
Result	Exposure time	Specific target organ	Species	Sex	Source
No effect					ECHA

zinc oxide					
Result	Exposure time	Specific target organ	Species	Sex	Source
Negative					ECHA

Carcinogenicity

Based on the available data, the criteria for classification of the mixture are not met.

sulfur						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Indeterminate			ECHA

zinc oxide						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Indeterminate			ECHA

Reproductive toxicity

Based on the available data, the criteria for classification of the mixture are not met.

sulfur						
Effect	Parameter	Value	Result	Species	Sex	Source
			Indeterminate			ECHA

zinc oxide						
Effect	Parameter	Value	Result	Species	Sex	Source
			Indeterminate			ECHA

Toxicity for specific target organ - single exposure

Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - repeated exposure

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

sulfur						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOAEL	1000 mg/kg bw/day		Rat		ECHA
Dermal		1000 mg/kg bw/day		Rat		ECHA

zinc oxide						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOAEL	31.25 mg/kg bw/day		Rat		ECHA

Repeated dose toxicity

zinc oxide							
Route of exposure	Parameter	Result	Value	Exposure time	Species	Sex	Source
Inhalation	NOAEC		470-520 µg/m³		Rat		ECHA
Inhalation	LOAEC		520-4450 µg/m³		Rat		ECHA

Aspiration hazard

Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Acute toxicity

zinc oxide					
Parameter	Value	Exposure time	Species	Environment	Source
LC_{50}	102-35980 µg/l	4 days	Fish		ECHA
LC_{50}	330 µg/l	95 hours	Fish		ECHA
LC_{50}	23.06 mg/l	84 hours	Fish		ECHA
EC_{50}	72-103 µg/l	4 days	Aquatic invertebrates		ECHA
EC_{50}	105-100000 µg/l	48 hours	Aquatic invertebrates		ECHA
NOEC	100 µg/l	6 months	Aquatic invertebrates		ECHA
EC_{50}	410 µg/l	10 days	Algae		ECHA
EC_{50}	42-1940 µg/l	4 days	Algae		ECHA
EC_{50}	7.1-27.1 mg/l	24 hours	Microorganisms		ECHA
IC_{50}	350 µg/l	4 hours	Microorganisms		ECHA
NOEC	100 mg/kg of food	5.133 months	Birds		ECHA
NOEC	131 mg/kg of food	70 days	Birds		ECHA

Chronic toxicity

sulfur					
Parameter	Value	Exposure time	Species	Environment	Source
	400 mg/kg of dry substance of soil	28 days	Microorganisms		ECHA
	2000 mg/kg of dry substance	15 days	Birds		ECHA

zinc oxide					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	534 µg/l	2.959 years	Fish		ECHA
NOEC	33.3-100 µg/l	9 months	Aquatic invertebrates		ECHA
NOEC	116.5 mg/kg of dry substance of soil	65 days	Higher plants		ECHA
NOEC	200 mg/kg of dry substance of soil	56 days	Higher plants		ECHA

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

sulfur					
Parameter	Value	Exposure time	Environment	Result	Source
	-				ECHA

12.3. Bioaccumulative potential

Data for the mixture are not available.

sulfur						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
	-					ECHA

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

sulfur		
Parameter	Value	Source
	-	ECHA

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

02 01 08* agrochemical waste containing hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide)

14.3. Transport hazard class(es)

9 Miscellaneous dangerous substances and articles

14.4. Packing group

III

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.	**90**
UN number	**3082**
Classification code	M6
Safety signs	9+hazardous for the environment

Tunnel restriction code	(-)

Air transport - ICAO/IATA

Packaging instructions passenger	964
Cargo packaging instructions	964

Marine transport - IMDG

EmS (emergency plan)	F-A, S-F

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

EUH208	Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
H315	Causes skin irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P261	Avoid breathing mist/vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service

CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC_{50}	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC_{50}	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
Skin Irrit.	Skin irritation
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.