

Safety Data Sheet

Issue Date: 30-Jun-2016

Revision Date: 07-Mar-2017

Version: 1.02

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name: Vitalnova Stress Buster
Product Code: 31390120DA

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

Recommended Use: Fertilizer. Restricted to professional users.
Uses Advised Against: Consumer use [SU 21].

1.3. Details of the supplier of the safety data sheet

Everris International BV
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

1.4. Emergency telephone number

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

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Mixture

Regulation (EC) No 1272/2008

Eye Irritation	Category 1 - (H318)
-----------------------	---------------------

2.2. Label elements



Signal Word:

Danger

Hazard Statements:

H318 - Causes serious eye damage
H315 - Causes skin irritation

Contains D-glycopyranose, oligomers, decyl octyl glycosides

Precautionary Statements:

P264 - Wash skin thoroughly after handling
P280 - Wear eye protection/ face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
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
P332 + P313 - If skin irritation occurs: Get medical advice/attention

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Ingredients	EC-No.	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Urea	200-315-5	57-13-6	10 - 25%	Not classified	01-2119463277-33
Iron sulphate; FeSO ₄ +7H ₂ O	231-753-5	7782-63-0	10 - 25%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	01-2119513203-57
D-glycopyranose, oligomers, decyl octyl glycosides	500-220-1	68515-73-1	5 - 10%	Eye Dam. 1 (H318)	01-2119488530-36
Acetic acid	607-002-00-6	64-19-7	0.1 - 1%	Skin Corr. 1A (H314) Flam. Liq. 3 (H226)	01-2119475328-30

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice:	First aid measures should be executed by trained personnel only.
Inhalation:	If not breathing, give artificial respiration. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapours or decomposition products.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Eye Contact:	Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. If eye irritation persists, consult a specialist.
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.
Protection of First-Aiders:	Low hazard for usual industrial or commercial handling.

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

Symptoms: None under normal processing

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

Notes to Physician: None under normal processing.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Coordinate fire extinguishing measures to fire in surrounding area. Use dry chemical, CO₂, water spray or "alcohol" foam.

Unsuitable extinguishing media:

High volume water jet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Coordinate fire extinguishing measures to fire in surrounding area.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions:

Ensure adequate ventilation. Wear personal protective equipment. Evacuate personnel to safe areas.

For Emergency Responders:

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not allow product to enter the environment uncontrolled.

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 Cleanup:

Take up mechanically and collect in suitable container for disposal. If material is uncontaminated, collect and reuse as recommended for product.

6.4. Reference to other sections

§ 8, 12, 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions:

Keep at temperatures between 0 °C and 40 °C. Keep containers tightly closed in a cool, well-ventilated place. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

LGK (Germany)

13

Packaging Materials:

Store in original container.

7.3. Specific end use(s)

Specific use(s)

Fertilizer; Read and follow label instructions; www.everris.com

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<u>Urea</u>	
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m ³ TWA
Latvia - Occupational Exposure Limits - TWAs	10 mg/m ³ TWA
Norway	TWA: 30 µg Hg/g Creatinine STEL: 30 µg Hg/g Creatinine
<u>Iron sulphate: FeSO₄·7H₂O</u>	
Belgium - 8 Hr TWA	1 mg/m ³
Denmark	TWA: 1 mg/m ³
Finland	TWA: 1 mg/m ³
Ireland	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Norway	TWA: 1 mg/m ³ STEL: 1 mg/m ³
Portugal	TWA: 1 mg/m ³
Spain OEL - Time Weighted Average (TWA):	TWA: 1 mg/m ³

Switzerland	TWA: 1 mg/m ³
UK oes/mel: <i>Acetic acid</i>	TWA: 1 mg/m ³
European Union	TWA 10 ppm TWA 25 mg/m ³
Austria	STEL 20 ppm STEL 50 mg/m ³ TWA: 10 ppm TWA: 25 mg/m ³
Australia TWA	10 ppm TWA 25 mg/m ³ TWA
Belgium - 8 Hr TWA	10 ppm TWA 25 mg/m ³ TWA
Bulgaria - Occupational Exposure Limits - TWAs	25.0 mg/m ³ TWA
Czech Republic OEL	25 mg/m ³ TWA
Denmark	TWA: 10 ppm TWA: 25 mg/m ³
Estonia - Occupational Exposure Limits - STELS	10 ppm STEL; 25 mg/m ³ STEL
Finland	TWA: 5 ppm TWA: 13 mg/m ³ STEL: 10 ppm STEL: 25 mg/m ³
France - Occupational Exposure Limits - 8 Hour VMEs	STEL: 10 ppm STEL: 25 mg/m ³
greece OEL 15 minute	15 ppm STEL 37 mg/m ³ STEL
Hungary - Occupational Exposure Limits - TWAs	25 mg/m ³ TWA
Iceland - OEL - 8 Hour	10 ppm TWA 25 mg/m ³ TWA
Indonesia - Occupational Exposure Limits - STELS (PSDs)	15 ppm STEL; 37 mg/m ³ STEL
Ireland	TWA: 10 ppm TWA: 25 mg/m ³ STEL: 15 ppm STEL: 37 mg/m ³
Japan - TWAs	10 ppm OEL 25 mg/m ³ OEL
Korea - ISHA - Occupational Exposure Limits - TWAs	10 ppm TWA (Serial No. 493); 25 mg/m ³ TWA (Serial No. 493)
Latvia - Occupational Exposure Limits - TWAs	10 ppm TWA; 25 mg/m ³ TWA
Malaysia - Occupational Exposure Limits - TWAs	10 ppm TWA; 25 mg/m ³ TWA
Netherlands National MAC Data - Time Weighted Average (TWA):	TWA: 25 mg/m ³
Norway	TWA: 10 ppm TWA: 25 mg/m ³ STEL: 10 ppm STEL: 25 mg/m ³
Poland	STEL: 50 mg/m ³ TWA: 25 mg/m ³
Portugal	STEL: 15 ppm TWA: 10 ppm TWA: 25 mg/m ³
Romania - Occupational Exposure Limits - TWAs	10 ppm TWA; 25 mg/m ³ TWA
Slovenia - Occupational Exposure Limits - TWAs	10 ppm TWA; 25 mg/m ³ TWA
Spain OEL - Time Weighted Average (TWA):	STEL: 15 ppm STEL: 37 mg/m ³ TWA: 10 ppm TWA: 25 mg/m ³
Singapore - OEL:PELs	10 ppm PEL 25 mg/m ³ PEL
Switzerland	STEL: 20 ppm STEL: 50 mg/m ³ TWA: 10 ppm TWA: 25 mg/m ³

8.2. Exposure controls

Personal protective equipment

Eye/Face Protection:

Wear eye/face protection

Hand protection:

Gloves. Nitrile rubber (0.26 mm). Break through time. > 8 h.

Respiratory Protection: No personal respiratory protective equipment normally required
Skin and Body Protection: Lightweight protective clothing

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State:	liquid
Appearance:	characteristic
Color:	brown.
Odor:	characteristic
Bulk density:	no data available
pH:	4 - 6 no data available
Melting Point/Freezing Point:	no data available
Boiling Point/Range:	no data available
Flash Point:	> 60 °C
Evaporation Rate:	no data available
Flammability (solid, gas):	Non-flammable
Vapor Pressure:	no data available
Vapor Density:	no data available
Specific Gravity:	no data available
Water Solubility:	Soluble in water
Solubility(ies)	no data available
Partition Coefficient:	no data available
Autoignition Temperature:	Not Applicable
Decomposition Temperature:	no data available
Explosive Properties:	Doesn't present explosion hazard. Based on data of ingredients.

9.2. Other information

Not applicable

Density: 1225 - 1255 kg/m³

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

10.4. Conditions to avoid

For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well

10.5. Incompatible materials

Keep away from catalysts like derivatives of hexavalent chromium and metal halides Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc

10.6. 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 toxicological effects

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Product Information

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Eye contact	May cause slight irritation.
Skin Contact	May cause irritation.
Ingestion	May cause gastrointestinal discomfort if consumed in large amounts.

Information on Toxicological Effects:

Symptoms: No information available

Acute Toxicity

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

ATEmix (oral): 3,714.00 mg/kg

Unknown Acute Toxicity: 3% of the mixture consists of ingredient(s) of unknown toxicity.

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Urea	= 8471 mg/kg (Rat)		
Iron sulphate; FeSO ₄ +7H ₂ O	= 1520 mg/kg		
D-glycopyranose, oligomers, decyl octyl glycosides	= 5001 mg/kg		
Acetic acid	= 2500 mg/kg (Rat)	= 1060 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h

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

No additional information available

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity**Ecotoxicity effects:**

Do not allow product to enter the environment uncontrolled.

Unknown Aquatic Toxicity:

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Ingredients	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Urea	> 10000: 192 h Scenedesmus quadricauda mg/L EC50	16200 - 18300: 96 h Poecilia reticulata mg/L LC50	-	3910: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna Straus mg/L EC50
D-glycopyranose, oligomers, decyl octyl glycosides	27: 72 h Scenedesmus quadricauda mg/L EC50	126: 96 h Brachydanio rerio mg/L LC50	-	151: 48 h Acartia tonsa mg/L EC50
Acetic acid	NE	79: 96 h Pimephales promelas mg/L LC50 static 75: 96 h Lepomis macrochirus mg/L LC50 static	-	65: 48 h Daphnia magna mg/L EC50 Static 47: 24 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

Persistence and Degradability: No information available.

12.3. Bioaccumulative potential

Bioaccumulation: No information available.

Ingredients	LOGPOW
Urea	-1.59
Acetic acid	-0.31

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

Mobility: No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of Wastes:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging:

Do not re-use empty containers. Dispose of as unused product.

Other Information:

Use up product completely. Packaging material is industrial waste.

Section 14: TRANSPORT INFORMATION

IMO / IMDG**14.1**

UN-No: Not regulated

14.2

Proper shipping name: Not regulated

14.3

Hazard Class: Not regulated

14.4

Packing group: Not regulated

14.5

Marine Pollutant: No information available

14.6

Special Provisions None

14.7

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not regulated

ADR/RID**14.1**

UN-No: Not regulated

14.2

Proper shipping name: Not regulated

14.3

Hazard Class: Not regulated

14.4

Packing group: Not regulated

14.5

Environmental Hazard Not regulated

14.6

Special Provisions None

IATA

14.1	
UN-No:	Not regulated
14.2	
Proper shipping name:	Not regulated
14.3	
Hazard Class:	Not regulated
14.4	
Packing group:	Not regulated
14.5	
Environmental Hazard	Not regulated
14.6	
Special Provisions	None

Section 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Belgium****Denmark**

Danish Sikkerhedsgruppe No data available

France**Germany**

LGK (Germany)	13
Water Endangering Class (WGK):	1 (Everris classification)
Gefahrstoffverordnung (Germany) TRGS 511	Not regulated

Component	German WGK Section
Urea 57-13-6 (10 - 25%)	class 1
D-glycopyranose, oligomers, decyl octyl glycosides 68515-73-1 (5 - 10%)	class 1
Acetic acid 64-19-7 (0.1 - 1%)	class 1

European Union**REACH:****15.2 Chemical safety assessment**

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

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

Section 16: OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H226 - Flammable liquid and vapor
H318 - Causes serious eye damage
H315 - Causes skin irritation

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

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
ICAO: International Civil Aviation Organization
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PNEC: Predicted No Effect Concentration
DNEL: Derived No-Effect Level
Reach: Registration, Evaluation, authorization of Chemicals
CLP: EU-GHS; Classification, Labelling and Packaging
OEL: Occupational Exposure Limit
TWA: Time Weighted Average
ATE: Acute Toxicity Estimate
EUH statement: CLP (EU) specific hazard statement

Classification procedure:

- Calculation method
- Expert judgment and weight of evidence determination

Key literature references and sources for data

According to EC Regulation 1907/2006 (Reach), Regulation EU No. 2015/830
Regulation (EC) No 1272/2008

Prepared by:

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

Issue Date:

30-Jun-2016

Revision Date:

07-Mar-2017

Reason for revision:

*** Indicates changes since the last revision. This version replaces all previous versions

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.