

**Agrocer Violet 023**

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Substance key: SXR004223

Revision Date: 07.06.2022

Version : 4 - 7 / EU

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

**1.1. Product identifier**

**Trade name**

**Agrocer Violet 023**

**Material number:** 270163

**Chemical nature:** C. I. Pigment Violet 23

**EC number :** 606-790-9

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

**Relevant identified uses of the substance or mixture**

Industry sector : Industrial Performance Chemicals

Type of use : Agricultural Industry

**1.3. Details of the supplier of the safety data sheet**

**Identification of the company**

Heubach Colorants Germany GmbH

Brüningstraße 50

65929 Frankfurt am Main

Telephone no. : +49 69 305 13619

**Information about the substance/mixture**

Product Stewardship

e-mail: SDS.PI.Europe@clariant.com

**1.4. Emergency telephone number**

00800-5121 5121 (24 h)

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment  
Potential dust explosion hazard.

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**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Substance name : C. I. Pigment Violet 23

**Components**

Remarks : No hazardous ingredients

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

General advice : Get medical advice/ attention if you feel unwell.

If inhaled : Remove to fresh air.

In case of skin contact : IF ON SKIN: Wash with plenty of soap and water.

In case of eye contact : Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

If swallowed : If swallowed do not induce vomiting, seek medical advice and show safety datasheet or label

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

Symptoms : No symptoms known currently.

Risks : No hazards known at this time.

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

Treatment : Treat symptomatically.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

Suitable extinguishing media : Water spray jet  
Foam

Unsuitable extinguishing media : High volume water jet  
Carbon dioxide (CO<sub>2</sub>)

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Dry powder

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

Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Self-contained breathing apparatus

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**SECTION 6: Accidental release measures**

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

Personal precautions : Wear suitable protective equipment.

**6.2 Environmental precautions**

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Take up mechanically  
Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Risk of dust explosion.  
Treat recovered material as described in the section "Disposal considerations".

**6.4 Reference to other sections**

Information regarding Safe handling, see chapter 7.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : When used and handled appropriately no special measures are needed  
Avoid dust formation.

Advice on protection against fire and explosion : Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations. Keep away sources of ignition. Dust can form an explosive mixture in air. Observe the general rules of industrial fire protection

Hygiene measures : Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before

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reuse.

Dust explosion class : St1

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

Requirements for storage areas and containers : Keep only in the original container. Keep container tightly closed.

Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep away sources of ignition.

Advice on common storage : When used and handled as intended, none. Keep away from food and drink.

Further information on storage stability : Stable at normal ambient temperature and pressure.

**7.3 Specific end use(s)**

Specific use(s) : No further recommendations.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
C. I. Pigment Violet 23	Workers	Dermal	Long-term systemic effects	42 mg/kg bw/day
	Remarks:DNEL			
	Workers	Inhalation	Long-term systemic effects	49 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	3 mg/m3
	Remarks:DNEL			
	General population	Dermal	Long-term systemic effects	25 mg/kg bw/day
	Remarks:DNEL			
	General population	Oral	Long-term systemic effects	25 mg/kg bw/day
	Remarks:DNEL			

**8.2 Exposure controls**

**Personal protective equipment**

Eye protection : Safety glasses

Hand protection

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- Remarks : Nitrile rubber gloves. Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Skin and body protection : working clothes
- Respiratory protection : Wear dust mask when handling large quantities
- Protective measures : Observe the usual precautions for handling chemicals.

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

- Physical state : powder
- Colour : violet
- Odour : not specified
- Odour Threshold : cannot be determined
- Melting point : Decomposes before melting.
- Boiling point : Decomposes below the boiling point.
- Flammability : The product is not flammable.  
GLP: no data available  
Remarks: Combustibility test (Corresponding to EC Directive)
- Upper explosion limit / upper flammability limit : not tested.
- Lower explosion limit / Lower flammability limit : not tested.
- Flash point : Not applicable
- Auto-ignition temperature : Not applicable
- Decomposition temperature :  $\geq 322$  °C  
Heating rate: 3 K/min  
Decomposition energy (mass): 237 kJ/kg  
Method: DTA  
closed cup
- pH : 5 - 8
- Viscosity  
Viscosity, dynamic : Not applicable
- Solubility(ies)

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Water solubility	:	< 0,02 mg/l (20 °C) The data refer to the colourant
Partition coefficient: n-octanol/water	:	log Pow: approx. 1,1 (approx. 20 °C) The data refer to the colourant
Vapour pressure	:	Not applicable
Relative density	:	not tested.
Density	:	1,5 g/cm <sup>3</sup>
Bulk density	:	190 - 220 kg/m <sup>3</sup> Method: ISO 60
Relative vapour density	:	Not applicable
Particle characteristics Particle size	:	2,7 µm Method: Laser diffraction with dispersion in dry air. Median value
<b>9.2 Other information</b>		
Explosives	:	There are no chemical groups associated with explosive properties present in the molecule. Method: Expert judgement
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammable solids Burning number	:	2 Short flaring up without spreading
Self-ignition	:	>= 290 °C Method: Works guideline (HOECHST)
Substances and mixtures, which in contact with water, emit flammable gases	:	The substance or mixture does not emit flammable gases in contact with water.
Metal corrosion rate	:	Not corrosive to metals
Dust deflagration index (Kst)	:	194 m.b./s
Dust explosion class	:	St1
Evaporation rate	:	Not applicable
Miscibility with water	:	practically insoluble
Surface tension	:	Not applicable
Minimum ignition energy	:	30 - 100 mJ

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with inductive electrical resistance

Sublimation point : Not applicable

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

See section 10.3. "Possibility of hazardous reactions"

**10.2 Chemical stability**

Stable

**10.3 Possibility of hazardous reactions**

Hazardous reactions : None known. Stable

**10.4 Conditions to avoid**

Conditions to avoid : None known.

**10.5 Incompatible materials**

Materials to avoid : Strong oxidizing agents

**10.6 Hazardous decomposition products**

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)

Chlorine compounds

When handled and stored appropriately, no dangerous decomposition products are known

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**SECTION 11: Toxicological information**

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

**Acute toxicity**

**Product:**

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: No significant adverse effects were reported

Acute inhalation toxicity : Remarks: not required

Acute dermal toxicity : Remarks: not required

**Skin corrosion/irritation**

**Product:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404

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Result : No skin irritation  
GLP : yes

**Serious eye damage/eye irritation**

**Product:**

Species : Rabbit  
Exposure time : 24 h  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

**Respiratory or skin sensitisation**

**Product:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Not a skin sensitizer.  
GLP : yes

**Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 3 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Ames test  
Test system: Escherichia coli  
Concentration: 3 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells  
Test system: Chinese hamster lung cells  
Concentration: 1,2 - 600 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Concentration: 0,3 - 600 µg/ml  
Metabolic activation: with and without metabolic activation



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Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Germ cell mutagenicity-  
Assessment : In vitro tests did not show mutagenic effects

**Carcinogenicity**

**Product:**

Carcinogenicity -  
Assessment : Not classifiable as a human carcinogen.

**Reproductive toxicity**

**Product:**

Reproductive toxicity -  
Assessment : No information available.

**STOT - single exposure**

**Product:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure**

**Product:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity**

**Product:**

Species : Rat, male and female  
NOAEL :  $\geq 1.000$  mg/kg  
Application Route : oral (gavage)  
Exposure time : 28 d  
Number of exposures : Once daily  
Dose : 0 - 50 - 250 - 1000 mg/kg  
Control Group : yes  
Method : OECD Test Guideline 407  
GLP : yes

**Aspiration toxicity**

**Product:**

No aspiration toxicity classification

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**11.2 Information on other hazards**

**Endocrine disrupting properties**

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Further information**

**Product:**

Remarks : no data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.  
No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.  
No toxicity at the limit of solubility

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NOEC (Desmodesmus subspicatus (green algae)):  $\geq$  100 mg/l

End point: Growth rate

Exposure time: 72 h

Test Type: static test

Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: yes

Remarks: The details of the toxic effect relate to the nominal concentration.

No toxicity at the limit of solubility

Toxicity to fish (Chronic toxicity) : Remarks: not required

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2,5 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Analytical monitoring: no  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to microorganisms : EC50 (activated sludge):  $>$  1.000 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: aquatic  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to soil dwelling organisms : Test Type: artificial soil  
NOEC:  $\geq$  1.000 mg/kg  
Exposure time: 14 d  
End point: mortality  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207  
GLP: yes

Plant toxicity : NOEC: 1.000 mg/kg  
Exposure time: 21 d  
End point: Growth  
Species: Avena sativa (oats)  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP: yes

NOEC: 1.000 mg/kg

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Exposure time: 21 d  
End point: Growth  
Species: Brassica napus  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP: yes

NOEC: 1.000 mg/kg  
Exposure time: 21 d  
End point: Growth  
Species: Dicotyledonae: Glycine max (soybean)  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP: yes

**12.2 Persistence and degradability**

**Product:**

Biodegradability : Test Type: aerobic  
Remarks: Pigments are practically not biodegradable.

Physico-chemical  
removability : Remarks: Not readily biodegradable.

Stability in water : Remarks: Not applicable

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: Low potential for bioaccumulation (log Pow < 3).

**12.4 Mobility in soil**

**Product:**

Distribution among  
environmental compartments : adsorption  
Medium: Soil  
Remarks: Not expected to adsorb on soil.

**12.5 Results of PBT and vPvB assessment**

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties**

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

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levels of 0.1% or higher.

**12.7 Other adverse effects**

**Product:**

Environmental fate and pathways : The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product : Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

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**SECTION 14: Transport information**

**Section 14.1. to 14.5.**

ADR	not restricted
ADN	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

**14.6. Special precautions for user**

See sections 6 to 8 of this Safety Data Sheet.

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

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**SECTION 15: Regulatory information**

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

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

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Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	: Neither banned nor restricted
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable

**15.2 Chemical safety assessment**

Chemical Safety Assessments have been carried out for these substances.

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**SECTION 16: Other information**

**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -

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Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Heubach makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Heubach's products for its particular application. Nothing included in this information waives any of Heubach's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Heubach products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Heubach.

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