

**Hostaperm Yellow H3G**

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Substance key: SXR003105

Revision Date: 21.02.2023

Version : 8 - 1 / EU

Date of printing : 06.03.2023

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

**1.1. Product identifier**

**Trade name**

Hostaperm Yellow H3G

**Material number:** 104899

**Identification of the substance according to its REACH registration**

N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-3-oxo-2-[[2-(trifluoromethyl)phenyl]azo]butyramide

**REACH - Registration number according to article 20(3):** 01-2119960638-25-0000

**Chemical nature:** C.I. Pigment Yellow 154

**CAS number :** 68134-22-5

**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  
Polymers industry  
Varnish industry  
Printing Inks Industry  
Type of use : Techno-chemical 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.

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**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.

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.

Risk of dust explosion.

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

**3.1 Substances**

Substance name : C.I. Pigment Yellow 154

CAS-No. : 68134-22-5

**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 : If inhaled, remove to fresh air.

In case of skin contact : In case of contact, immediately flush skin with plenty of 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 additional hazards are known except those derived from the labelling.

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

Treatment : Treat symptomatically.

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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>)  
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>)  
Hydrogen fluoride

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Self-contained breathing apparatus

Further information : Wear suitable protective equipment.

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**SECTION 6: Accidental release measures**

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

Personal precautions : Wear suitable protective equipment.  
Avoid dust formation.  
Keep away sources of ignition.  
Keep away sources of ignition, stop running engines, no smoking.  
Take up in the dry state without forming dust. Consider Recycling

**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 : Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Use mechanical handling equipment.  
Treat recovered material as described in the section "Disposal considerations".

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**6.4 Reference to other sections**

Information regarding Safe handling, see chapter 7., For disposal considerations see section 13.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

- Advice on safe handling : No special precautions required.  
Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.  
Take measures to prevent the build up of electrostatic charge.
- Advice on protection against fire and explosion : Take precautionary measures against static discharges. Keep away from heat and sources of ignition. Dust can form an explosive mixture in air.
- 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 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.
- Advice on common storage : No materials to be especially mentioned. Keep away from food and drink.

**7.3 Specific end use(s)**

- Specific use(s) : No further recommendations.

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

**8.1 Control parameters**

**8.2 Exposure controls**

**Engineering measures**

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

**Personal protective equipment**

Eye/face 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	:	in case of dust, use dust-mask. mask, comb.gas/particle filter
Protective measures	:	Wear suitable protective equipment.

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**SECTION 9: Physical and chemical properties**

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

Physical state	:	powder
Colour	:	yellow
Odour	:	not specified
Odour Threshold	:	not determined
Boiling point	:	Not applicable
Flammability	:	The product is not flammable. Method: Other
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Flash point	:	Not applicable
Auto-ignition temperature	:	not tested.
Decomposition temperature	:	> 330 °C Heating rate: 3 K/min Decomposition energy (mass): 350 kJ/kg Method: DTA
pH	:	5,5 - 8,5 GLP: no
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Solubility(ies)		

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Water solubility	:	14,2 µg/l (24 °C) pH: 7 Method: ETAD method
Solubility in other solvents	:	1,89 mg/l(24 °C) Solvent: 1-octanol Method: ETAD method
Partition coefficient: n-octanol/water	:	log Pow: 2,12 (24 °C) pH: 7 Method: Other
Vapour pressure	:	Not applicable
Relative density	:	not tested.
Density	:	1,59 g/cm <sup>3</sup> (20 °C) GLP: no
Bulk density	:	160 kg/m <sup>3</sup>
Relative vapour density	:	Not applicable
Particle characteristics	:	
Particle size	:	6,3 µm Method: Laser diffraction with dispersion in dry air.

**9.2 Other information**

Oxidizing properties	:	not tested.
Flammable solids	:	
Burning number	:	3 (20 °C) GLP: no Local combustion without spreading
	:	3 (100 °C) GLP: no Local combustion without spreading
Self-ignition	:	290 °C Method: VDI 2263 (Grewer) GLP: no
Self-heating substances	:	Storage temperature: 198 °C Critical temperature: 201,2 °C(8 h)
Metal corrosion rate	:	Not corrosive to metals
Impact sensitivity	:	Not impact sensitive.
Dust explosion class	:	St1

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Evaporation rate	:	not tested.
Miscibility with water	:	practically insoluble
Surface tension	:	Based on chemical structure, no surface activity is expected or can be predicted.
Minimum ignition energy	:	56 - 110 mJ with inductive electrical resistance
Sublimation point	:	Not applicable
Molecular weight	:	405,33 g/mol

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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 : Risk of dust explosion.Stable

**10.4 Conditions to avoid**

Conditions to avoid : ignition  
Keep away from heat.  
Keep away from flames and sparks.

**10.5 Incompatible materials**

Materials to avoid : not known

**10.6 Hazardous decomposition products**

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, female): > 15.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Remarks: No significant adverse effects were reported

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: not required

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**Skin corrosion/irritation**

**Product:**

Species : Rabbit  
Exposure time : 24 h  
Method : Other  
Result : No skin irritation  
GLP : no

**Serious eye damage/eye irritation**

**Product:**

Species : Rabbit  
Exposure time : 24 h  
Method : Other  
Result : No eye irritation  
GLP : no

**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

Test Type : Maximisation Test  
Exposure routes : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes  
Remarks : By analogy with a product of similar composition

**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



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Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Concentration: 0,4 - 600 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells  
Test system: Chinese hamster lung cells  
Concentration: 6,3 - 1200 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: By analogy with a product of similar composition

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Strain: NMRI  
Cell type: Bone marrow cells  
Application Route: oral (gavage)  
Exposure time: 30 h  
Dose: 0, 50, 500, 5000 mg/kg bw  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes  
Remarks: By analogy with a product of similar composition

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

**Carcinogenicity**

**Product:**

Carcinogenicity -  
Assessment : No information available.

**Reproductive toxicity**

**Product:**

Effects on fertility : Test Type: One generation study  
Species: Rat, male and female  
Strain: wistar  
Application Route: oral (gavage)  
Dose: 0, 100, 300 and 1000 mg/kg bw  
Duration of Single Treatment: 28 - 49 d  
Frequency of Treatment: 1 daily  
General Toxicity - Parent: NOAEL: 1.000 mg/kg body weight  
General Toxicity F1: NOAEL: 1.000 mg/kg body weight  
Method: OECD Test Guideline 421  
GLP: yes

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Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: wistar  
Application Route: oral (gavage)  
Dose: 0, 100, 300 and 1000 mg/kg bw  
Duration of Single Treatment: 28 - 49 d  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 1.000 mg/kg body weight  
Teratogenicity: NOAEL: 1.000 mg/kg body weight  
Developmental Toxicity: NOAEL: 1.000 mg/kg body weight  
Method: OECD Test Guideline 421  
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**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 : 1000 mg/kg bw/day  
Application Route : oral (gavage)  
Exposure time : 28 d  
Number of exposures : once daily  
Dose : 0 , 100, 300, 1000 mg/kg/day  
Control Group : yes  
Method : OECD Test Guideline 407  
GLP : yes

**Aspiration toxicity**

**Product:**

No aspiration toxicity classification

**11.2 Information on other hazards**

**Endocrine disrupting properties**

**Product:**

Assessment : The substance/mixture does not contain components

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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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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: By analogy with a product of similar composition  
No toxicity at the limit of solubility
- EC0 (Danio rerio (zebra fish)): 1 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: By analogy with a product of similar composition  
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.
- EC0 (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.
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 1 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201

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GLP: yes

Remarks: No toxicity at the limit of solubility

NOEC (Desmodesmus subspicatus (green algae)): 1 mg/l

End point: Growth rate

Exposure time: 72 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: 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: 1 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Analytical monitoring: yes  
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

Toxicity to soil dwelling organisms : Test Type: artificial soil  
NOEC: 1.000 mg/kg  
Exposure time: 56 d  
End point: mortality  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 222  
GLP:yes

Test Type: artificial soil  
LOEC: > 1.000 mg/kg  
Exposure time: 56 d  
End point: mortality  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 222  
GLP:yes

Plant toxicity : NOEC: 1.000 mg/kg  
Exposure time: 21 d  
End point: emergence  
Species: Brassica napus

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Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP: yes

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

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

**Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**12.2 Persistence and degradability**

**Product:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 30 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 10 %  
Related to: Biochemical Oxygen Demand (BOD)  
Exposure time: 28 d  
Method: OECD Test Guideline 302C  
GLP: yes

Physico-chemical  
removability : Remarks: Not readily biodegradable.

**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: water - soil  
Remarks: Not expected to adsorb on soil.

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**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 levels of 0.1% or higher.

**12.7 Other adverse effects**

**Product:**

Environmental fate and pathways : not available

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 : This material and its container must be disposed of in a safe way.

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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**

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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
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

**Other regulations:**

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

**The components of this product are reported in the following inventories:**

EINECS	: Listed Notification number: 268-734-6 1990-06-15
ECHA Registered Substances	: Listed Full - Indicates registration under REACH Article 10 as a full dossier Notification number: 268-734-6 2013-08-13

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has been carried out for this substance.

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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 - 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**

Other information : Observe national and local legal requirements

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



**SAFETY DATA SHEET**  
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