

Novoperm Yellow P-HRE

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Substance key: 000000221113

Revision Date: 01.02.2023

Version : 5 - 2 / EU

Date of printing : 02.06.2023

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

1.1. Product identifier

Trade name

Novoperm Yellow P-HRE

Material number: 213223

Chemical nature: C.I. Pigment Yellow 83

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
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry
Type of use : Colouring agent

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)

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.

Additional Labelling

EUH210 Safety data sheet available on request.

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.

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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.

Dust can form an explosive mixture in air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Alcohols, C16-18 and C18-unsaturated, ethoxylated	68920-66-1	Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1	>= 2,5 - < 10
Acetoacet-2,5-dimethoxy-4-chloroanilide	4433-79-8 224-638-6 01-2119447826-28-0000	Acute Tox. 4; H302 Aquatic Chronic 3; H412	>= 1 - < 2,5
Substances with a workplace exposure limit :			
Kaolin	1332-58-7 310-194-1		>= 1 - < 10

For explanation of abbreviations see section 16.

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.

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Risks : No special measures necessary.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray jet
Foam

Unsuitable extinguishing media : High volume water jet
Carbon dioxide (CO₂)
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 (CO₂)
Nitrogen oxides (NO_x)
Hydrogen chloride

5.3 Advice for firefighters

Special protective equipment for firefighters : Self-contained breathing apparatus

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.
Moisten spilled material with water, cover with wet sand or wetted binder, then take up.

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

For disposal considerations see section 13.

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 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.

7.2 Conditions for safe storage, including any incompatibilities

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

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 Yellow 83 CAS-No.: 5567-15-7	Workers	Dermal	Long-term systemic effects	45 mg/kg bw/day
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	3 mg/m3
	Remarks:DNEL			
	General population	Dermal	Long-term systemic effects	28 mg/kg bw/day
	Remarks:DNEL			
	General population	Oral	Long-term systemic effects	28 mg/kg bw/day
	Remarks:DNEL			
Rosin, hydrogenated	Workers	Inhalation	Long-term systemic	117 mg/m3

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CAS-No.: 65997-06-0			effects	
	Remarks:DNEL			
	Workers	Skin contact	Long-term systemic effects	17 mg/kg bw/day
	Remarks:DNEL			
	General population	Inhalation	Long-term systemic effects	35 mg/m3
	Remarks:DNEL			
	General population	Skin contact	Long-term systemic effects	10 mg/kg bw/day
	Remarks:DNEL			
	General population	Ingestion	Long-term systemic effects	10 mg/kg bw/day
	Remarks:DNEL			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Rosin, hydrogenated CAS-No.: 65997-06-0	Fresh water	0,002 mg/l
	Marine water	0 mg/l
	Water (intermittent release)	0,016 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	0,007 mg/kg dry weight (d.w.)
	Marine sediment	0,001 mg/kg dry weight (d.w.)
	Soil	0 mg/kg dry weight (d.w.)

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

Safety glasses with side-shields

Hand protection

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). With solid dry substances permeation is not to be expected, therefore the breakthrough-time for this protective glove has not been measured. Because this glove is used only for mechanical protection, the minimum breakthrough time and thickness are not relevant to safety.

Skin and body protection : Wear suitable protective equipment.

Respiratory protection : Respirator must be worn if exposed to dust.

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Protective measures : Wear suitable protective equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : powder

Colour : yellow

Odour : not significant

Odour Threshold : not determined

Melting point : not determined

Boiling point : Not applicable

Flammability : not determined

Upper explosion limit / upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : > 300 °C
Heating rate: 3 K/min
Decomposition energy (mass): 710 kJ/kg
Method: DTA
closed cup

pH : 8,1 (20 °C)
Concentration: 50 g/l
GLP: no

Viscosity

 Viscosity, dynamic : Not applicable

 Viscosity, kinematic : no data available

Solubility(ies)

 Water solubility : < 0,02 mg/l (23 °C)
GLP: no
The data refer to the colourant

Partition coefficient: n-octanol/water : not determined

Vapour pressure : Not applicable

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Relative density	:	no data available
Density	:	not determined
Bulk density	:	no data available
Relative vapour density	:	Not applicable
Particle characteristics		
Particle size	:	62 µm Method: Laser diffraction with dispersion in dry air.

9.2 Other information

Oxidizing properties	:	no data available
Flammable solids		
Burning number	:	3 (20 °C) GLP: no Local combustion without spreading
		5 (100 °C) GLP: no Complete combustion with flames
Self-ignition	:	140 °C Method: VDI 2263 (Grewer) GLP: no The sample was mixed 1:1 with diatomaceous earth.
		The substance or mixture is not classified as pyrophoric.
Metal corrosion rate	:	Not applicable
Evaporation rate	:	Not applicable
Minimum ignition energy	:	3 - 6 mJ with inductive electrical resistance
		6 - 13 mJ without inductive electrical resistance
Molecular weight	:	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable

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10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of dust explosion.Stable
Dust can form an explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Keep away from sources of ignition - No smoking.
Avoid shock and friction.
Keep away from flames and sparks.

10.5 Incompatible materials

Materials to avoid : None.

10.6 Hazardous decomposition products

When handled and stored appropriately, no dangerous decomposition products are known
This product contains a diarylide pigment. This product should not be used in polymers if the processing temperature exceeds 200 °C because of possible thermal decomposition, which can form e.g. traces of aromatic amines. 3,3'-Dichloro-benzidine may be formed at temperatures above 200 °C.

SECTION 11: Toxicological information

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

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Acute oral toxicity : LD50 (Rat, male and female): 850 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Kaolin:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

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Skin corrosion/irritation

Product:

Species : Rabbit
Result : No skin irritation
Remarks : The toxicological data has been taken from products of similar composition.

Components:

Alcohols, C16-18 and C18-unsaturated, ethoxylated:

Result : Irritating to skin.

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

Kaolin:

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Species : rabbit eye
Result : No eye irritation
Remarks : The toxicological data has been taken from products of similar composition.

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes

Kaolin:

Result : Product dust may be irritating to eyes, skin and respiratory system.

Respiratory or skin sensitisation

Product:

Remarks : no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Test Type : Local lymph node assay (LLNA)

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Species : Mouse
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.
GLP : yes

Assessment : Harmful if swallowed.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity-
Assessment : No information available.

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: no

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

Carcinogenicity

Product:

Carcinogenicity -
Assessment : No information available.

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Carcinogenicity -
Assessment : No information available.

Reproductive toxicity

Product:

Reproductive toxicity -
Assessment : No information available.

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Reproductive toxicity -
Assessment : No information available.

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STOT - single exposure

Product:

Remarks : no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

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

STOT - repeated exposure

Product:

Remarks : no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

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

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Species : Rat, male and female
NOEL : 20 mg/kg bw/day
Application Route : oral (gavage)
Exposure time : 29 d
Number of exposures : daily
Method : OECD Test Guideline 407
GLP : yes

Aspiration toxicity

Product:

no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

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.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae/aquatic plants : Remarks: no data available

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

Components:

Alcohols, C16-18 and C18-unsaturated, ethoxylated:

M-Factor (Acute aquatic toxicity) : 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 22 - 50 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

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Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 33 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 110 mg/l
End point: Growth rate
Exposure time: 16 h
Test Type: static test
Method: DIN 38 412 Part 8
GLP: no data available

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Kaolin:

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

Sediment toxicity : Remarks: Not applicable

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Not applicable

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Concentration: 50 mg/l
Result: Not readily biodegradable.
Biodegradation: 62 %
Related to: Biochemical Oxygen Demand (BOD)
Exposure time: 28 d
Method: OECD Test Guideline 301F

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Kaolin:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Partition coefficient: n-
octanol/water : log Pow: 1,74 (23 °C)
pH: 6 - 8
Method: OECD Test Guideline 107

Kaolin:

Bioaccumulation : Remarks: Not applicable

12.4 Mobility in soil

Components:

Kaolin:

Distribution among
environmental compartments : Remarks: Not applicable

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.

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Assessment : The substance is not identified as a PBT or as a vPvB substance.

Kaolin:

Assessment : Remarks: Not applicable

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 : no data available

Additional ecological information : no data available

Components:

Kaolin:

Additional ecological information : no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with the European Directives on waste and hazardous waste.

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

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR	No dangerous good of class 4.2 in packages up to 3 m ³
ADN	No dangerous good of class 4.2 in packages up to 3 m ³
RID	No dangerous good of class 4.2 in packages up to 3 m ³
IATA	No dangerous good of class 4.2 in packages up to 3 m ³
IMDG	No dangerous good of class 4.2 in packages up to 3 m ³

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 to IBC - Code.

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

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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.

15.2 Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

SECTION 16: Other information

Full text of H-Statements

H302	: Harmful if swallowed.
H315	: Causes skin irritation.
H400	: Very toxic to aquatic life.
H412	: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Skin Irrit.	: Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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 -

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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 : This product contains a diarylide pigment. This product should not be used in polymers if the processing temperature exceeds 200 °C because of possible thermal decomposition, which can form e.g. traces of aromatic amines. 3,3'-Dichlorobenzidine may be formed at temperatures above 200 °C.

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