

Ink Jet Yellow 4G

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Substance key: 000000045166

Revision Date: 16.06.2022

Version : 4 - 3 / EU

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

1.1. Product identifier

Trade name

Ink Jet Yellow 4G

Material number: 167652

Identification of the substance according to its REACH registration

tetramethyl 2,2'-[1,4-phenylenebis(imino(1-acetyl-2-oxoethane-1,2-diyl)azo)]bisterephthalate

REACH - Registration number 01-2119960152-45-0001
according to article 20(3):

Chemical nature: C.I. Pigment Yellow 155

CAS number : 68516-73-4

EC number : 271-176-6

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

Relevant identified uses of the substance or mixture

Industry sector : Varnish industry
Plastic processing industry.
Printing Inks Industry
Type of use : Colorant/organic pigment

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.

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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.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : C.I. Pigment Yellow 155

EC-No. : 271-176-6

Components

Remarks : No hazardous ingredients

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 from danger zone. Obtain medical advice.

In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.

In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.

If swallowed : If swallowed, call a poison control centre or doctor immediately.

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 (CO₂)
Dry powder

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Carbon oxides

Nitrogen oxides (NO_x)

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

5.3 Advice for firefighters

Special protective equipment for firefighters : Self-contained breathing apparatus

Further information : Cool container and metallic parts with a water spray jet
Set up threefold fire attack, use extinguishants singly or in combination, equip branchman and support team with respiratory protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment.
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"

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considerations".

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion : Take precautionary measures against static discharges.

Avoid dust formation.

Keep away sources of ignition.

Observe the usual precautionary measures required for chemicals with dust explosive properties (Observe national regulations).

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.

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 155 CAS-No.: 68516-73-4	Workers	Inhalation	Long-term systemic effects	3 mg/m ³
	Remarks:DNEL			
	Consumers	Inhalation	Long-term systemic effects	3 mg/m ³
	Remarks:DNEL			

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

Substance name	Environmental Compartment	Value
C.I. Pigment Yellow 155 CAS-No.: 68516-73-4	Sewage treatment plant	1 mg/l
	Soil	1 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 protection : Safety glasses

Hand protection

Remarks : Nitrile rubber gloves. These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

Skin and body protection : working clothes

Respiratory protection : Wear dust mask when handling large quantities

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 specified

Odour Threshold : cannot be determined

Melting point : Method: DSC
GLP: no
Decomposes before melting.

Boiling point : Not applicable

Flammability : The product is not flammable.
Method: 92/69/EC (L383) A.10 * flammability (solids)
GLP: no

Upper explosion limit / upper flammability limit : not tested.

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Lower explosion limit / Lower flammability limit	:	not tested.
Flash point	:	Not applicable
Auto-ignition temperature	:	not tested.
Decomposition temperature	:	300 - 350 °C Heating rate: 3 K/min Decomposition energy (mass): 320 kJ/kg Method: DSC Exothermic reaction closed cup
Viscosity		
Viscosity, dynamic	:	not tested.
Viscosity, kinematic	:	Not applicable
Solubility(ies)		
Water solubility	:	(20 °C) insoluble
Solubility in other solvents	:	Solvent: fat not tested.
Partition coefficient: n-octanol/water	:	no data available
Vapour pressure	:	not tested.
Relative density	:	not tested.
Density	:	not tested.
Bulk density	:	200 - 500 kg/m ³
Relative vapour density	:	not tested.
Particle characteristics		
Particle size	:	2,5 µm Method: Laser diffraction with dispersion in dry air. Median value

9.2 Other information

Explosives	:	Not explosive Method: Expert judgement GLP: no Not explosive Method: Expert judgement
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

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There are no chemical groups associated with oxidising properties present in the molecule. not oxidizing

Flammable solids

Burning rate

: < 1 mm/s
Method: EU Method A.10
GLP: no

Burning number

: 3 (20 °C)
Method: VDI 2263, ESCIS, Vol. 1
Local combustion without spreading

5 (100 °C)

Method: VDI 2263, ESCIS, Vol. 1
Complete combustion with flames

Self-ignition

: 300 °C
Method: VDI 2263 (Grewer)

300 °C

Method: VDI 2263 (Grewer)

The sample was mixed 1:1 with diatomaceous earth.

Substances and mixtures,
which in contact with water,
emit flammable gases

: Method: Expert judgement
The substance or mixture does not emit flammable gases in contact with water.

Metal corrosion rate

: Not corrosive to metals

Dust deflagration index (Kst)

: 172 m.b_/s

Dust explosion class

: St1

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

: 1 - 3 mJ
Method: Mike 3 apparatus
with inductive electrical resistance

3 - 10 mJ

Method: Mike 3 apparatus
without 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 under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of dust explosion.

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 used and handled as intended, none.

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 423
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 1,7 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: no
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: By analogy with a product of similar composition

Acute dermal toxicity : Remarks: no data available

Skin corrosion/irritation

Product:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 404

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Result : No skin irritation
GLP : no

Serious eye damage/eye irritation

Product:

Species : Rabbit
Exposure time : 72 h
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes

Respiratory or skin sensitisation

Product:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : yes

Test Type : Local lymph node assay (LLNA)
Exposure routes : Dermal
Species : Mouse
Method : OECD Test Guideline 429
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: 1 - 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: mouse lymphoma cells
Concentration: 0,25 - 20 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

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

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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, 1000 mg/kg bw/d.
Duration of Single Treatment: 41 - 52 d
General Toxicity - Parent: NOAEL: 1.000 mg/kg body weight
General Toxicity F1: NOAEL: 1.000 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes

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, 1000 mg/kg bw/d.
Duration of Single Treatment: 41 - 52 d
General Toxicity Maternal: NOAEL: 1.000 mg/kg body weight
Teratogenicity: NOAEL: 1.000 mg/kg body weight
Developmental Toxicity: NOEL: 1.000 mg/kg body weight
Method: OECD Test Guideline 422
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)

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Exposure time : 41 d (m), 52 d (f)
Number of exposures : daily
Dose : 0, 100, 300, 1000 mg/kg bw/d.
Control Group : yes
Method : OECD Test Guideline 422
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 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 : LC50 (Poecilia reticulata (guppy)): > 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.

LC100 (Poecilia reticulata (guppy)): > 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.

NOEC (Poecilia reticulata (guppy)): 100 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no

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Method: OECD Test Guideline 203

GLP: yes

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

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.

LC100 (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.

NOEC (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)): > 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: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.

NOEC (Desmodesmus subspicatus (green algae)): 40 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: By analogy with a product of similar composition

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

- Toxicity to fish (Chronic toxicity) : Remarks: not required
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not required
- Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: aquatic
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: no
Remarks: By analogy with a product of similar composition
- Toxicity to soil dwelling organisms : Test Type: artificial soil
LC50: > 1.000 mg/kg
Exposure time: 14 d
End point: mortality
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207
GLP:yes
Remarks: By analogy with a product of similar composition
- Test Type: artificial soil
NOEC: >= 1.000 mg/kg
Exposure time: 14 d
End point: mortality
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207
GLP:yes
Remarks: By analogy with a product of similar composition

12.2 Persistence and degradability

Product:

- Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 30 mg/l
Result: Not readily biodegradable.
Biodegradation: 12 %
Related to: Biochemical Oxygen Demand (BOD)
Exposure time: 28 d
Method: OECD Test Guideline 302C
GLP: no
Remarks: By analogy with a product of similar composition
- Biochemical Oxygen Demand (BOD) : 1 mg/g
Incubation time: 5 d
Method: internal test

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Chemical Oxygen Demand (COD) : 3.100 mg/g
Method: internal test

Physico-chemical removability : Remarks: Not readily biodegradable.

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Incineration in an approved, controlled furnace. Observe: fire hazard data, physical and corrosion data.

Contaminated packaging : Dispose of in accordance with local regulations.

Contaminated packaging material should be treated equivalent to residual chemicals. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

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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.

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.

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15.2 Chemical safety assessment

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

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; 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 - 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; TECl - 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

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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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