

Trade name: Hesse Precious wood stain PEX BE XX-FT

Version: 24 / DK

Revision: 30.11.2022

Replaces Version: 23 / DK

Print date: 13.01.23

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

1.1. Product identifier

Hesse Precious wood stain PEX BE XX-FT

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

Use of the substance/preparation

Surface treatment of wood and other materials

1.3. Details of the supplier of the safety data sheet

Manufacturer

Hesse GmbH & Co. KG
Warendorfer Strasse 21
59075 Hamm (Germany)
Telephone no. +49 (0) 2381 963-00
Fax no. +49 (0) 2381 963-849
E-mail address ps@hesse-lignal.de

1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612
Testphrase

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)
Skin Sens. 1A H317

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Acid Brown 355; 1,2-benzisothiazol-3(2H)-one; 2-methyl-2H-isothiazol-3-one

Supplemental information

Further supplemental information

Young persons under 18 years may not work with this product.

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

Acid Brown 355

CAS No.	84989-26-4			
EINECS no.	284-915-2			
Registration no.	01-2120077343-57			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Sens. 1		H317	
	Aquatic Chronic 3		H412	

2-(2-butoxyethoxy)ethanol

CAS No.	112-34-5			
EINECS no.	203-961-6			
Registration no.	01-2119475104-44			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Eye Irrit. 2		H319	

Acid Violet 90

CAS No.	84812-63-5			
EINECS no.	284-206-8			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Aquatic Chronic 3		H412	

1,2-benzisothiazol-3(2H)-one

CAS No.	2634-33-5			
EINECS no.	220-120-9			
Concentration		<	0,05	%
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4		H302	
	Skin Irrit. 2		H315	
	Eye Dam. 1		H318	
	Skin Sens. 1		H317	

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Aquatic Acute 1 H400
Aquatic Chronic 2 H411

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Sens. 1 H317 $\geq 0,05$ %

2-methyl-2H-isothiazol-3-one

CAS No. 2682-20-4

EINECS no. 220-239-6

Concentration $\geq 0,01$ < 0,1 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3 H301

Acute Tox. 2 H330

Route of exposure: Inhalation
exposure

Skin Corr. 1B H314

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Skin Sens. 1A H317

Acute Tox. 3 H311

Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400 M = 10

Skin Sens. 1A H317 $\geq 0,0015$ %

Note

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. First aider: Pay attention to self-protection! Get medical advice/attention if you feel unwell. Remove affected person from danger area, lay him down.

After inhalation

No special measures required.

After skin contact

Wash off immediately with soap and water. Do NOT use solvents or thinners. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. Take medical treatment.

After ingestion

Do not induce vomiting. Take medical treatment.

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

Contact of the product with skin or eyes may cause irritation.

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

Hints for the physician / treatment

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist

Non suitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

No materials to be especially mentioned.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

No special measures required.

Other information

Do not allow run-off from fire fighting to enter drains or water courses. Standard procedure for chemical fires. Cool closed containers exposed to fire with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale aerosols.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not allow to enter soil, waterways or waste water canal. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Do NOT use solvents or thinners. Send in suitable containers for recovery or disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed and dry in a cool, well-ventilated place. Avoid contact with skin and eyes. Do not inhale aerosols. Do not eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

Advice on protection against fire and explosion

No special measures necessary if used correctly.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep only in the original container in a cool, well ventilated place.

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Hints on storage assembly

No special measures required.

Storage classes

Storage class according to TRGS 510 10 Flammable liquids

Further information on storage conditions

Protect from frost. Protect from heat and direct sunlight. Store in accordance with the particular national regulations.

7.3. Specific end use(s)

See exposure scenario, if available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

2-(2-butoxyethoxy)ethanol

List	GV (DK)			
Value	68	mg/m ³	10	ppm(V)
Status: 11/2021				

2-(2-butoxyethoxy)ethanol

List	Directive 2017/164 EG			
Value	67,5	mg/m ³	10	ppm(V)
Short term exposure limit	101,2	mg/m ³	15	ppm(V)
Status: 12/2009				

Other information

-

Derived No/Minimal Effect Levels (DNEL/DMEL)

2-(2-butoxyethoxy)ethanol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	14	ppm

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	20	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10	ppm

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	10	ppm
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	7,5	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	10	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	5	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	1,3	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	5	mg/m ³

Acid Brown 355

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,51	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	

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Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,12	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	0,04	mg/kg/d

Predicted No Effect Concentration (PNEC)

2-(2-butoxyethoxy)ethanol

Type of value	PNEC	
Type	Freshwater	
Concentration	1	mg/l

Type of value	PNEC	
Type	marine water	
Concentration	0,1	mg/l

Type of value	PNEC	
Type	Fresh water sediment	
Concentration	4	mg/kg

Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,4	mg/kg

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	200	mg/l

Type of value	PNEC	
Type	Soil	
Concentration	0,4	mg/l

Acid Brown 355

Type of value	PNEC	
Type	Freshwater	
Concentration	0,01	mg/l

Type of value	PNEC	
Type	marine water	
Concentration	0,001	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

Type of value	PNEC	
Type	Fresh water sediment	

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Concentration	0,038	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,004	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,002	mg/kg

8.2. Exposure controls

Exposure controls

No special measures required.

Respiratory protection

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol.
Recommended Filter type: Half mask with a particle filter P2 (EN 143).

Hand protection

PVC gloves

Glove material

Appropriate Material Nitrile rubber

Material thickness \geq 0,4 mm

Breakthrough time \geq 30 min

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Eye protection

Wear eye glasses with side protection according to EN 166.

Body protection

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	coloured
Odour	characteristic
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined

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Boiling point or initial boiling point and boiling range

Value 100 to 100 °C

Flammability

not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Value > 60 °C

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

pH value

Value 8
Concentration/H₂O 100

Viscosity

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative density

Value appr. 1,017 kg/l
Temperature 20 °C

Relative vapour density

Remarks not determined

Particle characteristics

Remarks not determined

9.2. Other information

Odour threshold

Remarks not determined

Evaporation rate

Remarks not determined

Solubility in water

Remarks not determined

Efflux time

Value 20 to 48 s
Temperature 20 °C
Method DIN 53211 4 mm

Explosive properties

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evaluation not determined

Oxidising properties

Remarks not determined

Non-volatile content

Value 4 %

Other information

This information is not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage and handling conditions (see section 7).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

10.5. Incompatible materials

No special restrictions on storage with other products.

10.6. Hazardous decomposition products

No decomposition if used as prescribed.

SECTION 11: Toxicological information

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

Acute oral toxicity

Method Calculation method (Regulation (EC) No. 1272/2008)
Remarks Based on available data, the classification criteria are not met.

Acute oral toxicity (Components)

1,2-benzisothiazol-3(2H)-one

Species rat
LD50 1193 mg/kg

2-methyl-2H-isothiazol-3-one

Species rat
LD50 120 mg/kg
Method EPA
Source 1 (reliable without restriction)

Acute dermal toxicity

Method Calculation method (Regulation (EC) No. 1272/2008)
Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)

2-methyl-2H-isothiazol-3-one

Species rat
LD50 242 mg/kg

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Source 1 (reliable without restriction)

Acute inhalational toxicity

Method Calculation method (Regulation (EC) No. 1272/2008)
Remarks Based on available data, the classification criteria are not met.

Acute inhalative toxicity (Components)

2-methyl-2H-isothiazol-3-one

Species rat
LC50 0,1 mg/l
Duration of exposure 4 h
Administration/Form Dust/Mist
Source 1 (reliable without restriction)

Skin corrosion/irritation

Method Calculation method (Regulation (EC) No. 1272/2008)
Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation (Components)

1,2-benzisothiazol-3(2H)-one

evaluation Irritating to skin.

2-methyl-2H-isothiazol-3-one

evaluation Causes burns.

Serious eye damage/irritation

Method Calculation method (Regulation (EC) No. 1272/2008)
Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation (Components)

2-(2-butoxyethoxy)ethanol

Species rabbit
evaluation Irritating to eyes.
Source 2 (reliable with restrictions)

Acid Brown 355

Species rabbit
evaluation Irritating to eyes.

1,2-benzisothiazol-3(2H)-one

evaluation Irritating to eyes.

2-methyl-2H-isothiazol-3-one

evaluation Causes severe caustic burns to skin and eyes.

Sensitization

evaluation May cause sensitization by skin contact.
Method Calculation method (Regulation (EC) No. 1272/2008)
Remarks The classification criteria are met.

Sensitization (Components)

1,2-benzisothiazol-3(2H)-one

Reference substance 1,2-benzisothiazol-3(2H)-one
evaluation May cause sensitization by skin contact.

Acid Brown 355

Species mouse
evaluation May cause sensitization by skin contact.
Source 2 (reliable with restrictions)

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2-methyl-2H-isothiazol-3-one

evaluation

May cause sensitization by skin contact.

Mutagenicity

Method

Calculation method (Regulation (EC) No. 1272/2008)

Remarks

Based on available data, the classification criteria are not met.

Reproductive toxicity

Method

Calculation method (Regulation (EC) No. 1272/2008)

Remarks

Based on available data, the classification criteria are not met.

Carcinogenicity

Method

Calculation method (Regulation (EC) No. 1272/2008)

Remarks

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Method

Calculation method (Regulation (EC) No. 1272/2008)

Remarks

Based on available data, the classification criteria are not met.

Repeated exposure

Remarks

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

For this subsection there is no ecotoxicological data available on the product as such.

Fish toxicity (Components)

Acid Brown 355

Species

Danio rerio (zebra fish)

LC50

40

mg/l

Duration of exposure

96

h

1,2-benzisothiazol-3(2H)-one

Species

Oncorhynchus mykiss (rainbow trout)

LC50

2,18

mg/l

Duration of exposure

96

h

Daphnia toxicity (Components)

1,2-benzisothiazol-3(2H)-one

Species

Daphnia magna (Water flea)

EC50

2,94

mg/l

Duration of exposure

48

h

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2-methyl-2H-isothiazol-3-one

Species	Daphnia magna (Water flea)		
NOEC	0,044		mg/l
Duration of exposure	21	d	

Algae toxicity (Components)

2-methyl-2H-isothiazol-3-one

EC50	0,157		mg/l
Duration of exposure	96	h	

12.2. Persistence and degradability

General information

For this subsection there is no ecotoxicological data available on the product as such.

Biodegradability (Components)

Acid Brown 355

Value	< 10	%
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1,2-benzisothiazol-3(2H)-one

evaluation	Readily biodegradable.
------------	------------------------

2-methyl-2H-isothiazol-3-one

evaluation	Readily biodegradable.
------------	------------------------

Chemical oxygen demand (COD) (Components)

Acid Brown 355

Value	990	g O2/g
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12.3. Bioaccumulative potential

General information

For this subsection there is no ecotoxicological data available on the product as such.

Partition coefficient n-octanol/water (log value)

Remarks	not determined
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12.4. Mobility in soil

General information

For this subsection there is no ecotoxicological data available on the product as such.

Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

General information

For this subsection there is no ecotoxicological data available on the product as such.

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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12.7. Other adverse effects

General information

For this subsection there is no ecotoxicological data available on the product as such.

General information / ecology

For this subsection there is no ecotoxicological data available on the product as such.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 080111 - waste paint and varnish containing organic solvents or other dangerous substances

EWC waste code 200127 - paint, inks, adhesives and resins containing dangerous substances

Where possible recycling is preferred to disposal or incineration.
Do not allow to enter drains or waterways.

modified product

EWC waste code 080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances

Dried residues

EWC waste code 080112 - waste lacquers and waste paint except those falling under 080111

Disposal recommendations for packaging

EWC waste code 150110 - packaging containing residues of or contaminated by dangerous substances

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of sea and air transport regulations.	Not a dangerous substance as defined in the above regulations.

SECTION 15: Regulatory information

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

VOC

VOC (EU) 0 % 0 g/l

MAL-Code

MAL-Code 00-5
MAL 0,06 m³/l

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Other information

All components are contained in the TSCA inventory or exempted.

15.2. Chemical safety assessment

For this substance / mixture a chemical safety assessment was not carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A

Abbreviations

ADR - Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG - International Maritime Code for Dangerous Goods
IATA - International Air Transport Association
IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
EINECS - European Inventory of Existing Commercial Chemical Substances
CAS - Chemical Abstracts Service (division of the American Chemical Society)
GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL - Lowest Observed Adverse Effect Level
LOEL - Lowest Observed Effect Level
NOAEL - No Observed Adverse Effect Level

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NOEC - No Observed Effect Concentration

NOEL - No Observed Effect Level

OECD - Organisation for Economic Cooperation and Development

VOC - Volatile Organic Compounds

Changes since the last version are highlighted in the margin (***). This version replaces all previous versions.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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