

Gamblin

Conservation Colors

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

1.1. Product identifier

Trade name

Gamblin Conservation Colors

Name of the chemical

The safety data sheet applies to Gamblin Conservation Colors which are any of the following colors: Alizarin Permanent. Black Spinel. Brown Madder Alizarin. Burnt Sienna. Burnt Umber. Cerulean Blue. Chromium Oxide Green. Cobalt Blue. Cobalt Green. Cobalt Violet. Dioxazine Purple. Dragon's Blood. Extender White. Greenish Umber. Hansa Yellow Med. Indian Yellow Permanent. Indian Red. Ivory Black. Lamp Black. Manganese Blue Hue. Mars Orange. Naples Yellow Dp. Naples Yellow Lt. Permanent Green. Phthalo Blue. Phthalo Green. Prussian Blue. Quinacridone Red. Raw Sienna. Raw Umber. Sap Green Permanent. Titanium Buff. Titanium White. Transparent Earth Brown. Transparent Earth Orange. Transparent Earth Red. Transparent Earth Yellow. Ultramarine Blue. Van Dyke Brown Permanent. Ultramarine Violet. Venetian Red. Viridian. Yellow Ochre. Cadmium Lemon Yellow. Cadmium Orange. Cadmium Red Lt. Cadmium Red Med. Cadmium Yellow Lt. Cadmium Yellow Med.

UFI code

H300-P0FU-E00S-GXEK

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

Product type

Inpainting color.

Relevant identified uses

Fine art restoration and conservation by trained professionals.

Not suitable for use in

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

SDS created by

Lennart Schönknecht

Gamblin

Conservation Colors

Manufacturer

Gamblin Conservation Colors A brand of Färg GmbH & CoKG

Address

Muehlaeckerstr. 13

Phone +49 (0)1624087037

97520 Roethlein

Germany

Telephone

+49 (0)1624087037

Email

info@conservationcolors.com

Web site

www.conservationcolors.com

1.4. Emergency telephone number

Call 112.

Available outside office hours

Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Flammable liquids, hazard category 3

Hazard statements

H226

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

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Hazard statements

H226 Flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

More information

Package = 125 ml: Standard Hazard and Precautionary statements may be omitted.

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrases M factor acute M factor chronic	Specific concentration limits ATE	Note
Binder	- - - -	25 - 50%	-	- - -		Not classified.
Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclics aromatics < 2%	64742-48-9 918-481-9 01-2119457273-39-xxxx 649-327-00-6	10 - 30%	Asp. Tox. 1	H304 - -		Substance with occupational exposure limit values.
2-methoxy-1-methyl-ethyl acetate	108-65-6 203-603-9 01-2119475791-29-xxxx 607-195-00-7	10 - 30%	Flam. Liq. 3	H226 - -		
Pigment and filler	- - - -	0 - 15%	-	- - -		Not classified.
Cadmium sulfoselenide red (CI Pigment Red 108)	58339-34-7 261-218-1 01-2119981636-24-0001 -	0 - 10%	-	- - -		Not classified. Substance with occupational exposure limit values.

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Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Specific concentra- tion limits ATE	Note
Cadmium sulfoselenide Orange (CI Pigment Orange 20)	12656-57-4 235-758-3 01-2119981636- 24-0001 -	0 - 10%	-	- - -		Not classi- fied. Sub- stance with occupa- tional exposure limit values.
Cadmium zinc sulphide yellow (CI Pigment Yel- low 35)	8048-07-5 232-466-8 01-2119981639- 18-0001 -	0 - 10%	-	- - -		Not classi- fied. Sub- stance with occupa- tional exposure limit values.
Titanium dioxide	13463-67-7 236-675-5 01-2119489379- 17-0000 022-006-00-2	0 - 10%	-	- - -		Not classi- fied. Sub- stance with occupa- tional exposure limit values.

Product based on

The product also contains binders, fillers and pigments classified as non-hazardous chemical products.

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Substance additional information

Additional information about colors containing cadmium pigments:

Cadmium pigments are much less hazardous than other cadmium compounds as they are extremely insoluble. This greatly reduces the risk of migration from applications, bioavailability and absorption of cadmium into the body and greatly reduces their environmental hazard.

Note 1: Regulation (EC) No 1272/2008 (CLP Regulation) - Annex VI Table 3.1 of the CLP Regulation provides a list of hazardous substances with GHS harmonised classification and labelling. As stated under Index Number 048-001-00-5, cadmium pigments are specifically exempt from the listed classification and labelling. A risk assessment of these products conducted by the EU in 2002 concluded that they offer no significant hazard to either human health or to the environment. Subsequent REACH registration has confirmed that no hazard classifications apply.

Note 2: Cadmium sulfoselenide red (CI Pigment Red 108) and Cadmium sulfoselenide orange (CI Pigment Orange 20) have the same basic chemical structure and have been covered in a single registration dossier. For EU-REACH administrative purposes, these entries have been assigned as UVCB (Variable Composition) with hexagonal structure and given an alternative EC number of 701-229-5. The compositional formula is $CdS_{1-x}Se_x$ where $x=0.001 - 0.25$.

Note 3: Cadmium zinc sulphide yellow (CI Pigment Yellow 35) – For EU-REACH administrative purposes, this entry has been assigned as UVCB (Variable Composition) with hexagonal structure and given an alternative EC number of 701-227-4. The compositional formula is $Cd_{1-x}Zn_xS$ where $x=0.001 - 0.46$.

The product is viscous and is therefore not classified as H304. For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. Get medical attention if any discomfort continues.

Skin contact

Wash skin thoroughly with soap and water. Contact physician if irritation continues.

Eye contact

Hold eyelids apart. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth with water. Give a couple of glasses of water, provided the victim is fully conscious. Contact physician if larger quantity has been consumed.

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

No symptoms known.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

In case of fire: Use alcohol resistant foam, carbon dioxide, dry powder or water fog to extinguish.

Unsuitable extinguishing media

Avoid water in straight hose stream; will scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Flammable liquid and vapour. Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread near ground to sources of ignition.

Clothing contaminated with the product poses a fire hazard.

Hazardous combustion products: Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear respiratory protection independent of ambient air. Wear full protective clothing.

Other

Cool containers exposed to flames with water until well after the fire is out. Dike and collect extinguishing water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Well-ventilated area. Keep people away from danger area. Remove sources of ignition. Take action to prevent static discharges. Avoid contact with eyes, skin and clothing. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation.

6.3. Methods and material for containment and cleaning up

Methods for containment: Dam and absorb spillages with sand, earth or other non-combustible material.

Methods for cleaning up: Shovel into dry containers. Cover and move the containers. Flush the area with water.

Dispose of contents/container as hazardous waste.

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6.4. Reference to other sections

For personal protection, see section 8.

For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Ventilate well. The usual precautions when handling chemicals should be observed. Remove sources of ignition.

General hygiene

Avoid contact with skin and eyes. Avoid inhalation of vapours. Wash hands before breaks and before smoking, eating or drinking. Avoid eating, drinking and smoking when using the product. Wear protective clothing as described in Section 8 of this safety data sheet.

7.2. Conditions for safe storage, including any incompatibilities

Flammable liquid storage. Follow rules for flammable liquids. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from sources of ignition. Stored as flammable a product. For safety reasons in case of fire, cans should be stored separately in closed containments.

Storage temperature: 5 - 15 °C

Conditions to avoid: Strong oxidising substances, strong acids and strong bases.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

LTEL (8 hr TWA): Cadmium sulphide and cadmium sulphide pigments (respirable dust (as Cd)): 0.03 mg/m³.

Notes: Capable of causing cancer and/or heritable genetic damage.

Source: WEL: Workplace Exposure Limit (UK HSE EH40).

Indicative occupational exposure limit values within EU:

2-methoxy-1-methylethyl acetate (EU): TWA 50 ppm / 275 mg/m³. STEL: 100 ppm / 550 mg/m³.

Source: 2000/39/EC

National occupational exposure limits

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Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Source	Remark	Year
Hydrocarbons, C10- C13, n-alkanes, iso-alkanes, cyclics aromatics < 2%	64742-48-9 918-481-9	- / 4	EH40/2005	Respirable fraction	-
Titanium dioxide	13463-67-7 236-675-5	- / 10	EH40/ 2005	i = inhalable fraction	-
Titanium dioxide	13463-67-7 236-675-5	- / 4	EH40/ 2005	r = respirable fraction	-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Hydrocarbons, C10- C13, n-alkanes, iso-alkanes, cyclics aromatics < 2% (64742-48-9/918-481-9)	DNEL	Chronic (long term) Inhalation	1.9 mg/m ³	Workers	Systemic
Hydrocarbons, C10- C13, n-alkanes, iso-alkanes, cyclics aromatics < 2% (64742-48-9/918-481-9)	DNEL	Acute (short term) Inhalation	1286.4 mg/m ³	Workers	Systemic
Hydrocarbons, C10- C13, n-alkanes, iso-alkanes, cyclics aromatics < 2% (64742-48-9/918-481-9)	DNEL	Chronic (long term) Inhalation	837.5 mg/m ³	Workers	Local
Hydrocarbons, C10- C13, n-alkanes, iso-alkanes, cyclics aromatics < 2% (64742-48-9/918-481-9)	DNEL	Acute (short term) Inhalation	1066.67 mg/m ³	Workers	Local
Hydrocarbons, C10- C13, n-alkanes, iso-alkanes, cyclics aromatics < 2% (64742-48-9/918-481-9)	DNEL	Chronic (long term) Inhalation	410 µg/m ³	Consumers	Systemic
Hydrocarbons, C10- C13, n-alkanes, iso-alkanes, cyclics aromatics < 2% (64742-48-9/918-481-9)	DNEL	Acute (short term) Inhalation	1152 mg/m ³	Consumers	Systemic
Hydrocarbons, C10- C13, n-alkanes, iso-alkanes, cyclics aromatics < 2% (64742-48-9/918-481-9)	DNEL	Chronic (long term) Inhalation	178.57 mg/m ³	Consumers	Local
Hydrocarbons, C10- C13, n-alkanes, iso-alkanes, cyclics aromatics < 2% (64742-48-9/918-481-9)	DNEL	Acute (short term) Inhalation	640 mg/m ³	Consumers	Local
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	DNEL	Chronic (long term) Inhalation	275 mg/m ³	Workers	Systemic
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	DNEL	Acute (short term) Inhalation	550 mg/m ³	Workers	Local
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	DNEL	Chronic (long term) Dermal	796 mg/kg bw/day	Workers	Systemic

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Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	DNEL	Chronic (long term) Inhalation	33 mg/m³	Consumers	Systemic
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	DNEL	Chronic (long term) Inhalation	33 mg/m³	Consumers	Local
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	DNEL	Chronic (long term) Dermal	320 mg/kg bw/day	Consumers	Systemic
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	DNEL	Chronic (long term) Oral	36 mg/kg bw/day	Consumers	Systemic
Titanium dioxide (13463-67-7/236-675-5)	DNEL	Chronic (long term) Inhalation	170 µg/m³	Workers	Local
Titanium dioxide (13463-67-7/236-675-5)	DNEL	Chronic (long term) Inhalation	28 µg/m³	Consumers	Local

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	PNEC	Freshwater	635 µg/l
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	PNEC	Marine water	63.5 µg/l
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	PNEC	Sediment (freshwater)	3.29 mg/kg sediment dw
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	PNEC	Sediment (marine water)	329 µg/kg sediment dw
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	PNEC	Sewage Treatment Plant	100 mg/l
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	PNEC	Intermittent releases (freshwater)	6.35 mg/l
2-methoxy-1-methylethyl acetate (108-65-6/203-603-9)	PNEC	Soil	0.29 mg/kg soil dry weight

8.2. Exposure controls
Appropriate engineering controls

Ventilate well. The usual precautions when handling chemicals should be observed. All handling to take place in well-ventilated area. Wash hands before breaks and before smoking, eating or drinking. Avoid eating, drinking and smoking when using the product. Avoid contact with skin and eyes. Do not breathe vapour.

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Eye / face protection

Use safety goggles and face shield in case of splash risk.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Use protective gloves made of: Butyl rubber.

Thickness of glove material: $\geq 0,7$ mm

Breakthrough time: 480 minutes

Immediately replace punctured or contaminated gloves.

Other skin protection

Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection

Not required under normal conditions and with good ventilation.

In case of inadequate ventilation: Use respiratory protection with gas filter, type A.

Thermal hazards

Flammable liquid and vapour.

Environmental exposure controls

Do not allow to enter drains, sewers or watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Paste

Colour

Misc. colours.

Odour

Sweetish.

Melting point / freezing point

< 0 °C

Boiling point or initial boiling point and boiling range

145 - 150 °C

Flammability

Flammable liquid and vapour.

Lower and upper explosion limit

0.9 - 6.2 %

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Flash point

55 °C

Auto-ignition temperature

318 - 354 °C

Decomposition temperature

Not determined.

pH

6 - 7

Kinematic viscosity

> 20,5 mm² /s @ 40 °C.

Viscosity, dynamic

> 2000 mPa · s @ 40 °C.

Solubility

Insoluble in water.

Water solubility

Insoluble in water.

Partition coefficient n-octanol/water

No data available

Vapour pressure

Not determined.

Density and/or relative density

2 - 3 g/cm³

Relative vapour density

No data available

Explosive properties

Solvent vapours may form explosive mixtures with air.

Oxidising properties

Not oxidizing

Particle characteristics

No data available

9.2. Other information

No further relevant information available.

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal temperature conditions and recommended use. See section 10.3.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Solvent vapours may form explosive mixtures with air.

10.4. Conditions to avoid

Keep away from heat, sparks and open flame. Extremes of temperatures. Avoid frost.

10.5. Incompatible materials

Strong acids. Strong alkalis. Strong oxidising substances.

10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

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

Acute toxicity

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

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

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STOT-repeated exposure

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

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Low acute toxicity to aquatic organisms.

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

12.2. Persistence and degradability

The product is expected to be slowly biodegradable.

12.3. Bioaccumulative potential

The product is not bioaccumulating.

12.4. Mobility in soil

Mobility

The product is insoluble in water. No further relevant information available.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Endocrine disrupting properties

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

No further relevant information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Waste is classified as hazardous waste. Disposed of in an incinerator approved for hazardous waste. Dispose of in accordance with official regulations.

Packaging

Uncleaned packaging is treated as hazardous waste. Packaging that cannot be cleaned should be disposed of in the same way as the product. Cleaned packaging can be recycled.

Waste code	Waste description
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

Other

Appropriate EWC code is determined by the user. The above EWC codes are to be considered suggestions only.

SECTION 14: Transport information

14.1. UN number

1263

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)

IMDG proper shipping name

PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

IATA proper shipping name

Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)

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14.3. Transport hazard class(es)

Label

ADR/RID/ADN



3

IMDG



3

IATA



3

ADR / RID Class

3

ADR / RID Classification code

F1

ADR / RID hazard identification number

30

IMDG Class

3

IATA Class

3

ADN Class

3

ADN Class Code

F1

14.4. Packing group

ADR / RID / ADN: III

IMDG: III

IATA: III

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14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Tunnel restriction code: D/E

Transport category: 3

IMDG EmS

F-E, S-E

14.7. Maritime transport in bulk according to IMO instruments

Not relevant.

Other

Additional information ADR-RID

This product can be shipped as dangerous goods in limited or reduced quantities.

Additional information IMDG

This product can be shipped as dangerous goods in limited or reduced quantities.

Additional information IATA (ICAO)

This product can be shipped as dangerous goods in limited or reduced quantities.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, with amendments.

Classification according to the Regulation (EU) No. 1272/2008 with their respective legislative changes. COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

National regulations

EH40/2005, Workplace exposure limits 2005, with amendments.

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

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Other regulations, limitations and legal regulations

Substances of very high concern (SVHC) according to REACH, Article 57: Not applicable.
Restriction of chemicals according to Annex XVII (REACH): Not applicable.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Phrase meaning

Flam. Liq. 3 - Flammable liquids, hazard category 3
Asp. Tox. 1 - Aspiration hazard, hazard category 1
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.

Other

Additional information

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

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Technical description

Abbreviations and acronyms used in the safety data sheet:

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. CMR - Carcinogen, Mutagen or Reproductive Toxicant. DIN - Standard of the German Institute for Standardisation. DSL - Domestic Substances List (Canada). 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. ISO - International Organisation for Standardization. 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. (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. TSCA - Toxic Substances Control Act (United States). UN - United Nations. UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods. vPvB - Very Persistent and Very Bioaccumulative.