

Sanodure Black CRO

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Substance key: KS7518

Revision Date: 19.08.2022

Version : 4 - 0 / EU

Date of printing : 11.12.2022

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

1.1. Product identifier

Trade name

Sanodure Black CRO

Material number: 104122

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

Relevant identified uses of the substance or mixture

Industry sector : Metal Working Industry
Type of use : aluminium dye

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)

Long-term (chronic) aquatic hazard, H412: Harmful to aquatic life with long lasting
Category 3 effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

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

Chemical nature : anionic
azo dyestuff

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate	Not Assigned	Aquatic Chronic 3; H412	>= 50 - < 70

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 : 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, call a poison control centre or doctor immediately.
Treat symptomatically.

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4.2 Most important symptoms and effects, both acute and delayed

Risks : No additional hazards are known except those derived from the labelling.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : all

Unsuitable extinguishing media : No restrictions

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Carbon oxides

Nitrogen oxides (NO_x)

Sulphur oxides

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment.

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 : Pick up mechanically. Rinse away rest with water. After processing, clean all equipment with the following:

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Water

6.4 Reference to other sections

Information regarding Safe handling, see chapter 7., For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special measures necessary.
Avoid dust formation.
Avoid inhalation, ingestion and contact with skin and eyes.

Advice on protection against fire and explosion : Potential dust explosion hazard.

Hygiene measures : This preparation is classified as non-hazardous. However the usual precautions for handling chemicals must be observed to avoid contact with the skin, eyes and respiratory tract. In case of contact with the product, wash the eye immediately with running water and the skin with water and soap.

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
Sodium sulphate CAS-No.: 7757-82-6	Workers	Inhalation	Long-term systemic effects	20 mg/m ³
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	20 mg/m ³
	Remarks:DNEL			
	General population	Inhalation	Long-term systemic effects	12 mg/m ³
	Remarks:DNEL			
	General population	Inhalation	Long-term local effects	12 mg/m ³
	Remarks:DNEL			

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

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Substance name	Environmental Compartment	Value
Sodium sulphate CAS-No.: 7757-82-6	Fresh water	11,09 mg/l
	Marine water	1,109 mg/l
	Water (intermittent release)	17,66 mg/l
	Fresh water sediment	40,2 mg/kg dry weight (d.w.)
	Marine sediment	4,02 mg/kg dry weight (d.w.)
	Soil	1,54 mg/kg dry weight (d.w.)
	Sewage treatment plant	800 mg/l

8.2 Exposure controls

Engineering measures

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

Personal protective equipment

Eye/face protection : Safety glasses

Hand protection

Remarks : Nitrile rubber Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : Wear suitable protective equipment.

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

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 : black

Odour : not significant

Odour Threshold : not required

Melting point : Decomposition: no
Not applicable

Boiling point : Decomposition: no
Not applicable

Flammability : Reaction at 330 °C
Remarks: Ignition test of deposited dust

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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	:	180 °C Method: dynamic decomposition test Spontaneous decomposition
		190 °C Heating rate: 0,75 K/min Method: SANDOZ Radex dynamic decomposition test air bubbled
pH	:	approximately 8 (20 °C) Concentration: 10 g/l
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Solubility(ies)		
Water solubility	:	approximately 40 g/l (20 °C) soluble
Partition coefficient: n-octanol/water	:	not determined
Vapour pressure	:	Not applicable
Relative density	:	no data available
Density	:	not determined
Bulk density	:	490 kg/m ³ Method: estimated
Relative vapour density	:	Not applicable
Particle characteristics		
Particle size	:	not determined

9.2 Other information

Explosives	:	no data available
Oxidizing properties	:	no data available
Self-ignition	:	no data available

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Substances and mixtures, which in contact with water, emit flammable gases	:	Method: according to Lütolf (ESCIS Vol. 1)
Metal corrosion rate	:	Not applicable
Evaporation rate	:	Not applicable
Minimum ignition energy	:	> 1 J (1.013 hPa) Method: modified Hartmann tube
Molecular weight	:	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous reactions : When used and handled as intended, none.

10.4 Conditions to avoid

Conditions to avoid : None known.

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): > 5.000 mg/kg
Method: SANDOZ internal test

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

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Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

Acute oral toxicity : LD50 (Rat, male): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rat, male): > 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: no

Skin corrosion/irritation

Product:

Species : Rabbit
Method : SANDOZ internal test
Result : No skin irritation

Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

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

Serious eye damage/eye irritation

Product:

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

Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

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

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Respiratory or skin sensitisation

Product:

Test Type : Skin
Species : Guinea pig
Method : Magnusson/Kligman
Result : None

Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Method : Maximisation Test
Result : Not a skin sensitizer.
GLP : no

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity-
Assessment : No information available.

Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

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: yes

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

Carcinogenicity

Product:

Carcinogenicity -
Assessment : No information available.

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Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

Carcinogenicity - Assessment : No information available.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No information available.

Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

Reproductive toxicity - Assessment : No information available.

STOT - single exposure

Product:

Remarks : no data available

Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

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

STOT - repeated exposure

Product:

Remarks : no data available

Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

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.

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Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

Remarks : no data available

Aspiration toxicity

Product:

no data available

Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

no data available

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 : LC0 (Oncorhynchus mykiss (rainbow trout)): approximately 100 mg/l
Exposure time: 48 h
Method: mod. routine bioassay method of 1.11.74

LC50 (Oncorhynchus mykiss (rainbow trout)): approximately 330 mg/l
Exposure time: 48 h
Method: mod. routine bioassay method of 1.11.74

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

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

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

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toxicity)

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

Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l
End point: Bacteria toxicity (respiration inhibition)
Method: OECD Test Guideline 209

Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 29,8 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Lemna gibba (gibbous duckweed)): 85,3 mg/l
End point: Growth rate
Exposure time: 7 d
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 221
GLP: yes

ErC10 (Lemna gibba (gibbous duckweed)): < 5,82 mg/l
End point: Growth rate
Exposure time: 7 d
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 221
GLP: yes

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.

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12.2 Persistence and degradability

Product:

Biodegradability : Test Type: aerobic
Concentration: 120 mg TOC/l
Biodegradation: approximately 55 %
Related to: TOC
Exposure time: 14 d
Method: HOECHST method

Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 56 mg/l
Result: Not readily biodegradable.
Biodegradation: 0 %
Related to: Biochemical oxygen demand
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: not tested.

Components:

Reaction mass of disodium 4-amino-3-[[4-[(2,4-diaminophenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate and disodium 4-amino-3-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate:

Partition coefficient: n-octanol/water : log Pow: -2,44 (23 °C)
pH: 6
Method: OECD Test Guideline 107
GLP: No information 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.

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Components:

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

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 : no data available

Additional ecological information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Consider recycling.

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.

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SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	:	Neither banned nor restricted
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Other regulations:

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

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

H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -

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Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Classification procedure:

Aquatic Chronic 3

H412

Calculation method

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