

Sanodure Orange G

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Substance key: KS8616

Revision Date: 04.08.2022

Version : 5 - 3 / 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 Orange G

Material number: 102071

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

Relevant identified uses of the substance or mixture

Industry sector : Treatment and coating of metals
Type of use : Colouring agents, dyes

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)

Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements : **Prevention:**
P261 Avoid breathing dust.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-)

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.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : anionic
azo dyestuff/chromium complex

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-)	10127-27-2 233-357-8	Eye Dam. 1; H318 Skin Sens. 1B; H317	>= 30 - < 50
2-Methylpentane-2,4-diol	107-41-5	Skin Irrit. 2; H315	>= 1 - < 10

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	203-489-0 603-053-00-3	Eye Irrit. 2; H319	
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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 : After contact with skin, wash immediately with plenty of soap and water.
Consult a physician.
- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.
Consult a physician.
- If swallowed : If swallowed, call a poison control centre or doctor immediately.
Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : corrosive effects
sensitising effects
- Risks : Causes serious eye damage.
May cause an allergic skin reaction.

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 : Product is compatible with standard fire-fighting agents.
- Unsuitable extinguishing media : No restrictions

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Carbon oxides
- Chromium oxides
- Nitrogen oxides (NOx)
- Sulphur oxides

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5.3 Advice for firefighters

Further information : Cool container and metallic parts with a water spray jet
Wear suitable protective equipment.

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.
Rinse with 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 : not required under normal use
Avoid dust formation.

Advice on protection against fire and explosion : Take precautionary measures against static discharges. Keep away from heat and sources of ignition. Dust can form an explosive mixture in air.

Hygiene measures : Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

Specific use(s) : No further recommendations.

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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/m3
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	20 mg/m3
	Remarks:DNEL			
	General population	Inhalation	Long-term systemic effects	12 mg/m3
	Remarks:DNEL			
	General population	Inhalation	Long-term local effects	12 mg/m3
	Remarks:DNEL			
2-Methylpentane-2,4-diol CAS-No.: 107-41-5	Workers	Inhalation	Long-term systemic effects	44,4 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	49 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Acute local effects	98 mg/m3
	Remarks:DNEL			
	Workers	Dermal	Long-term systemic effects	42 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Inhalation	Long-term systemic effects	7,8 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	25 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Acute local effects	25 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Acute local effects	49 mg/m3
	Consumers	Dermal	Long-term systemic effects	15 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Oral	Long-term systemic effects	1,5 mg/kg bw/day
	Remarks:DNEL			

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

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

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	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
2-Methylpentane-2,4-diol CAS-No.: 107-41-5	Fresh water	0,429 mg/l
	Marine water	0,043 mg/l
	Sewage treatment plant	20 mg/l
	Soil	0,066 mg/kg dry weight (d.w.)
	Fresh water sediment	1,59 mg/kg dry weight (d.w.)
	Marine sediment	0,159 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

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

Personal protective equipment

Eye/face protection : Safety glasses

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 : working clothes

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 : Granules

Colour : orange

Odour : not specified

Odour Threshold : not required

Melting point : Decomposition: no
Not applicable

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

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Boiling point	:	(1.013 hPa) Decomposition: no Not applicable
Flammability	:	reaction at 300 °C Remarks: Ignition test of deposited dust
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 Heating rate: 0 K/min open cup 200 °C Heating rate: 0,75 K/min open cup
pH	:	8,5 - 9,5 (20 °C) Concentration: 1 g/l 0,1 %
Viscosity Viscosity, dynamic	:	Not applicable
Solubility(ies) Water solubility	:	40 g/l (30 °C) soluble 70 g/l (90 °C)
Partition coefficient: n-octanol/water	:	not determined
Vapour pressure	:	Not applicable
Relative density	:	no data available
Density	:	not determined
Bulk density	:	approx. 800 kg/m ³
Relative vapour density	:	Not applicable
Particle characteristics Particle size	:	not determined

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9.2 Other information

Oxidizing properties	:	no data available
Self-ignition	:	no data available
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 : Risk of dust explosion.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : not known

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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
Acute inhalation toxicity	:	Remarks: no data available
Acute dermal toxicity	:	Remarks: no data available

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Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

Acute oral toxicity : LD50 (Rat, male and female): > 7.700 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

2-Methylpentane-2,4-diol:

Acute oral toxicity : LD0 (Rat, male and female): >= 2.000 mg/kg
Method: OECD Test Guideline 420
GLP: yes

Acute inhalation toxicity : LC0 (Rat, male): saturated vapor
Exposure time: 8 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: no
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD0 (Rat, male and female): >= 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product:

Remarks : no data available

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

Species : EPISKIN Human Skin Model Test
Exposure time : 15 min
Method : OECD Test Guideline 439
Result : No skin irritation
GLP : yes

2-Methylpentane-2,4-diol:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Irritating to skin.
GLP : yes

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Serious eye damage/eye irritation

Product:

Remarks : no data available

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

Species : Bovine cornea
Exposure time : 4 h
Method : OECD Test Guideline 437
Result : Risk of serious damage to eyes.
GLP : yes

2-Methylpentane-2,4-diol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritating to eyes.
GLP : yes

Respiratory or skin sensitisation

Product:

Remarks : no data available

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : The product is a skin sensitiser, sub-category 1B.
GLP : yes

Assessment : Causes serious eye damage.

2-Methylpentane-2,4-diol:

Test Type : Guinea pig maximization test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.
GLP : yes

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Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity-
Assessment : No information available.

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

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

2-Methylpentane-2,4-diol:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Concentration: 1250 - 5000 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells
Test system: mouse lymphoma cells
Concentration: 0,16 - 10 mM
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 31,25 - 4000 µg/plate
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:

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Carcinogenicity - Assessment : No information available.

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

Carcinogenicity - Assessment : No information available.

2-Methylpentane-2,4-diol:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No information available.

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

Reproductive toxicity - Assessment : No information available.

2-Methylpentane-2,4-diol:

Effects on fertility : Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 200 - 500 - 1000 mg/kg
General Toxicity - Parent: NOAEL: >= 1.000 mg/kg body weight
General Toxicity F1: NOAEL: 500 mg/kg body weight
Method: OECD Test Guideline 421
GLP: yes

Effects on foetal development : Species: Rat
Application Route: oral (gavage)
Dose: 30 - 300 - 1000 mg/kg
General Toxicity Maternal: NOAEL: 300 mg/kg body weight
Teratogenicity: NOAEL: 300 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
Animal experiments showed mutagenic and teratogenic effects.

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STOT - single exposure

Product:

Remarks : no data available

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

Remarks : no data available

2-Methylpentane-2,4-diol:

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

STOT - repeated exposure

Product:

Remarks : no data available

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

Remarks : no data available

2-Methylpentane-2,4-diol:

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

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

2-Methylpentane-2,4-diol:

Species : Rat, male and female
NOAEL : 50 mg/kg
Application Route : oral (gavage)
Exposure time : 91 d
Number of exposures : daily
Dose : 50 - 150 - 450 mg/kg
Control Group : yes
Method : OECD Test Guideline 408
GLP : yes

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Aspiration toxicity

Product:

no data available

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

No aspiration toxicity classification

2-Methylpentane-2,4-diol:

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 : LC0 (Oncorhynchus mykiss (rainbow trout)): ca. 20 mg/l
Exposure time: 48 h

LC50 (Oncorhynchus mykiss (rainbow trout)): ca. 45 mg/l
Exposure time: 48 h

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

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

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

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

Toxicity to microorganisms : IC50 (activated sludge): > > 300 mg/l

Ecotoxicology Assessment

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

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 116 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Lemna gibba (gibbous duckweed)): > 134 mg/l
End point: Growth rate
Exposure time: 7 d
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 221
GLP: yes

Toxicity to microorganisms :
Remarks: no data available

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

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

2-Methylpentane-2,4-diol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 8.690 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 5.410 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: no

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 429 mg/l
End point: Growth rate
Exposure time: 72 h

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Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

- Toxicity to microorganisms : NOEC : ca. 200 mg/l
End point: Growth rate
Exposure time: 10 d
Test Type: aquatic
Analytical monitoring: no
Method: Other
GLP: no
Remarks: 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 soil dwelling organisms : Remarks: Not applicable
- Plant toxicity : Remarks: Not applicable
- Sediment toxicity : Remarks: Not applicable
- Toxicity to terrestrial organisms : Remarks: Not applicable

12.2 Persistence and degradability

Product:

- Biodegradability : Test Type: aerobic
Biodegradation: < 10 %

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

- Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 17 %
Related to: Carbon dioxide (CO₂)
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

2-Methylpentane-2,4-diol:

- Biodegradability : Test Type: aerobic

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Inoculum: activated sludge
Concentration: 2,3 mg ThOD/l
Result: Readily biodegradable.
Biodegradation: 81 %
Related to: Carbon dioxide (CO₂)
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

Photodegradation : Test Type: air
Rate constant: $(1.5 \pm 0.4) \times 10^{-11} \text{ cm}^3 \text{ mol}^{-1} \text{ s}^{-1}$
Method: see user defined free text
GLP: no
Remarks: Decomposes rapidly in contact with light.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: not tested.

Components:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

Partition coefficient: n-octanol/water : log Pow: < -1,56 (23 °C)
pH: 8,9
Method: OECD Test Guideline 107
GLP: No information available.

2-Methylpentane-2,4-diol:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil

Components:

2-Methylpentane-2,4-diol:

Distribution among environmental compartments : Remarks: Not applicable

12.5 Results of PBT and vPvB assessment

Product:

Assessment : Remarks: no data available

: 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:

Sodium-(3-((4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo)-2-hydroxy-5-nitrobenzenesulfonato(3-))hydroxychromate(1-):

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

2-Methylpentane-2,4-diol:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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 : no data available

Components:

2-Methylpentane-2,4-diol:

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

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

SECTION 14: Transport information

Section 14.1. to 14.5.

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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.

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.

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SECTION 16: Other information

Full text of H-Statements

H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

Full text of other abbreviations

Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

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 - 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:

Eye Dam. 1 H318
Skin Sens. 1 H317
Aquatic Chronic 3 H412

Classification procedure:

Calculation method
Calculation method
Based on product data or assessment

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according to Regulation (EC) No. 1907/2006



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