

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : LANASET® BLACK B GR

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

Use of the Substance/Mixture : Textile dye

Recommended restrictions on use : For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company	: Huntsman Textile Effects
Address	: Klybeckstrasse 200 CH-4057 Basel Switzerland
Telephone	: +41 61 299 11 11
Company	: Huntsman Textile Effects c/o Huntsman Textile Effects (Germany) GmbH
Address	: Rehlinger Straße 1 D-86462 Langweid Germany
Telephone	: +49 8230 410
Telefax	: +49 8230 41 370
E-mail address of person responsible for the SDS	: pehs_te@huntsman.com

1.4 Emergency telephone numberEmergency telephone number : Europe: +32 35751234
Americas: +1 703 527 3887
USA & Canada: 800 424 9300
Africa: +32 35751234
Asia & Pacific: +65 6336 6011
China: +86 20 39377888
+86 532 83889090
India: + 91 22 42 87 5333**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Short-term (acute) aquatic hazard, H400: Very toxic to aquatic life.

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

Category 1

Long-term (chronic) aquatic hazard,
Category 1

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms



Signal word

: Warning

Hazard statements

: H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

: Prevention:	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
Response:	
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P391	Collect spillage.

Hazardous components which must be listed on the label:

trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-)

disodium [N-(2-chlorophenyl)-2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxobutyramidato(2-)][3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-)

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.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Chemical nature : Mixture

Hazardous components

Chemical name	CAS-No. EC-No.	Classification (REGULATION)	Concentration (% w/w)

LANASET® BLACK B GR

Version 1.1 Revision Date: 16.01.2019 SDS Number: 400001006407 Date of last issue: 27.10.2016
 Date of first issue: 27.10.2016

	Index-No. Registration number	(EC) No 1272/2008)	
disodium [1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphtholato(2-)][3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-)	70236-55-4 274-487-5 01-2120130667-55	Aquatic Acute1; H400 Aquatic Chronic1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 30 - < 50
trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-)	57693-14-8 260-906-9 01-2119487279-21	Eye Irrit.2; H319 Skin Sens.1; H317 Aquatic Chronic2; H411	>= 30 - < 50
disodium [N-(2-chlorophenyl)-2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxobutyramidato(2-)][3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-)	72403-66-8 276-649-0 01-2120119376-57	Skin Sens.1; H317 Aquatic Chronic2; H411	>= 1 - < 2,5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.
 Show this safety data sheet to the doctor in attendance.
 Treat symptomatically.
 Get medical attention if symptoms occur.
- If inhaled : If inhaled, remove to fresh air.
 Get medical attention if symptoms occur.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
 Remove contact lenses.
 Keep eye wide open while rinsing.
 If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information.,
For personal protection see section 8.

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Advice on safe handling : Avoid formation of respirable particles.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
- Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers.
- Advice on common storage : For incompatible materials please refer to Section 10 of this SDS.
- Further information on storage stability : Stable under normal conditions.

7.3 Specific end use(s)

- Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
sodium sulphate	Workers	Inhalation	Long-term systemic effects	20 mg/m ³

LANASET® BLACK B GR

Version 1.1 Revision Date: 16.01.2019 SDS Number: 400001006407 Date of last issue: 27.10.2016
 Date of first issue: 27.10.2016

	Workers	Inhalation	Long-term local effects	20 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	12 mg/m ³
	Consumers	Inhalation	Long-term local effects	12 mg/m ³
disodium [1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphtholato(2-)] [3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-)	Workers	Inhalation		11,76 mg/m ³
	Workers	Dermal		82,33 mg/kg
	Consumers	Inhalation		2,9 mg/m ³
	Consumers	Dermal		41,67 mg/kg
	Consumers	Oral		1,67 mg/kg
trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-)	Workers	Inhalation	Long-term systemic effects	24,5 mg/m ³
	Workers	Inhalation	Systemic effects	24,5 mg/m ³
	Workers	Inhalation	Acute systemic effects	24,5 mg/m ³
	Workers	Inhalation	Systemic effects	24,5 mg/m ³
	Workers	Dermal	Long-term systemic effects	27,78 mg/kg
	Workers	Dermal	Systemic effects	
	Consumers	Inhalation	Long-term systemic effects	14,7 mg/m ³
	Consumers	Inhalation	Systemic effects	14,7 mg/m ³
	Consumers	Dermal	Long-term systemic effects	16,7 mg/kg
	Consumers	Dermal	Systemic effects	
	Consumers	Oral	Systemic effects	8,33 mg/kg
	Consumers	Oral	Systemic effects	

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

Substance name	Environmental Compartment	Value
sodium sulphate	Fresh water	11,09 mg/l
	Marine water	1,109 mg/l
	Freshwater - intermittent	17,66 mg/l
	Fresh water sediment	40,2 mg/kg dry

LANASET® BLACK B GR

Version 1.1 Revision Date: 16.01.2019 SDS Number: 400001006407 Date of last issue: 27.10.2016
 Date of first issue: 27.10.2016

		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
disodium [1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphtholato(2-)][3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-)	Fresh water	0,01 mg/l
	Marine water	0,001 mg/l
	Fresh water sediment	0,02 mg/kg
	Marine sediment	0,02 mg/kg
	Sewage treatment plant	3 mg/l
	Soil	0,004 mg/kg
trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-)	Freshwater - intermittent	30 µg/l
Remarks:	Assessment Factors	
	Fresh water sediment	3000 mg/kg
	Equilibrium method	
	Marine sediment	300 mg/kg
	Equilibrium method	
	Sewage treatment plant	0,781 mg/l
	Assessment Factors	
	Soil	600 mg/kg
	Equilibrium method	
	Fresh water	3 µg/l
	Assessment Factors	
	Marine water	0,3 µg/l
	Assessment Factors	

8.2 Exposure controls**Personal protective equipment**

Eye protection : Eye wash bottle with pure water
 Tightly fitting safety goggles
 Wear face-shield and protective suit for abnormal processing problems.

Hand protection

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

Filter type : Particulates type (P)

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance : granules

Colour : black

Odour : odourless

Odour Threshold : No data is available on the product itself.

pH : 7,5 - 8,5 (20 °C)
Concentration: 1 g/l

Freezing point : No data is available on the product itself.

Melting point : No data is available on the product itself.

Boiling point : No data is available on the product itself.

Flash point : No data is available on the product itself.

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Burning rate : Fire will spread by smouldering or slow decomposition.

Upper explosion limit / Upper flammability limit : No data is available on the product itself.

Lower explosion limit / Lower flammability limit : No data is available on the product itself.

Vapour pressure : No data is available on the product itself.

Relative vapour density : No data is available on the product itself.

Relative density : No data is available on the product itself.

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

Density : 0,69 g/cm³ (20 °C)
Bulk density

Bulk density : 690 kg/m³ (20 °C)

Solubility(ies)
Water solubility : >= 65 g/l (90 °C)

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : > 200 °C

Viscosity : No data is available on the product itself.

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

9.2 Other information

Impact sensitivity : Not impact sensitive.

Self-ignition : 420 °C
Method: BAM

SECTION 10: Stability and reactivity**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity - Product : LD50 (Rat): > 5 000 mg/kg

Acute inhalation toxicity : No data available

Components:

trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-):

Acute dermal toxicity : LD50 (Rat, male and female): > 2 000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Acute toxicity (other routes of administration) : No data available

Skin corrosion/irritation**Product:**

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation**Product:**

Species: Rabbit

Assessment: Irritant

Result: Irritating to eyes.

Respiratory or skin sensitisation**Product:**

Exposure routes: Skin

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 406

Result: Causes sensitisation.

Assessment: No data available

Germ cell mutagenicity**Components:**

disodium [1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphtholato(2-)] [3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-):

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative

: Test Type: Ames test
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: positive

: Test system: Chinese hamster fibroblasts
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 473
 Result: negative

trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-):

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: Not classified due to inconclusive data.

: Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative

Components:

disodium [1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphtholato(2-)] [3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-):

Genotoxicity in vivo : Test species: Mouse (male and female)
 Method: OECD Test Guideline 474
 Result: negative

trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-):

Genotoxicity in vivo : Cell type: Somatic
 Application Route: Intraperitoneal injection
 Dose: 150 mg/kg
 Method: OECD Test Guideline 474
 Result: negative

Carcinogenicity

No data available

Carcinogenicity - Assessment : No data available

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

Reproductive toxicity**Components:**

disodium [1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphtholato(2-)] [3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-):

Effects on fertility : Species: Rat, male and female
 Application Route: Oral
 Dose: 100, 330 or 1000 milligram per kilogram
 General Toxicity - Parent: No observed adverse effect level: 1 000 mg/kg body weight
 General Toxicity F1: No observed adverse effect level: 1 000 mg/kg body weight
 Method: OECD Test Guideline 422

Components:

disodium [1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphtholato(2-)] [3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-):

Effects on foetal development : Species: Rat, male and female
 Application Route: Oral
 Dose: 100, 330 or 1000 milligram per kilogram
 General Toxicity Maternal: No observed adverse effect level: 1 000 mg/kg body weight
 Embryo-foetal toxicity: No observed adverse effect level: 1 000 mg/kg body weight
 Method: OECD Test Guideline 422

trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-):

Species: Rat, male and female
 Application Route: Oral
 General Toxicity Maternal: No observed adverse effect level: 1 000 mg/kg body weight
 Method: OECD Test Guideline 422
 Result: No teratogenic effects

Reproductive toxicity - Assessment : No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity**Components:**

disodium [1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphtholato(2-)] [3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-):

Species: Rat, male and female
 NOAEL: 1 000 mg/kg
 Application Route: Oral
 Method: OECD Test Guideline 422

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-):

Species: Rat

NOAEL: 1000 mg/kg

Application Route: Ingestion

Exposure time: 672 hMethod: Subacute toxicity

Repeated dose toxicity - Assessment : No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available

SECTION 12: Ecological information**12.1 Toxicity****Product:**

Toxicity to fish : LC50 : 6 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 203

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

Toxicity to microorganisms : IC50 : > 300 mg/l
Exposure time: 3 h

Components:

disodium [1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphtholato(2-)][3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,66 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : IC50 : > 300 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

M-Factor (Chronic aquatic toxicity) : 1

trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-):

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 3 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 79 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 : 103 mg/l
Exposure time: 168 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 221

Toxicity to microorganisms : EC50 (activated sludge): 107 mg/l
Exposure time: 3 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209

disodium [N-(2-chlorophenyl)-2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxobutyramidato(2-)][3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-):

Toxicity to fish : LC50 : 10 mg/l

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,3 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to microorganisms : IC50 : > 300 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

12.2 Persistence and degradability**Product:**

Biodegradability : Biodegradation: ca. 40 %
Exposure time: 28 d
Method: OECD Test Guideline 302B

Biochemical Oxygen Demand (BOD) : 0 mgO₂/g

Chemical Oxygen Demand (COD) : 950 mgO₂/g

Components:

disodium [1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphtholato(2-)] [3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-):

Biochemical Oxygen Demand (BOD) : 4 mg/g
Incubation time: 5 d
Method: Directive 67/548/EEC, Annex V, C.5

Chemical Oxygen Demand (COD) : 1 024 mg/g

trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-):

Biodegradability : Inoculum: activated sludge
Result: Inherently biodegradable.
Biodegradation: 68 %
Exposure time: 28 d
Method: OECD Test Guideline 302B

Biochemical Oxygen Demand (BOD) : 35 mgO₂/g
Incubation time: 5 d
Method: Directive 67/548/EEC, Annex V, C.5
GLP: yes

Chemical Oxygen Demand (COD) : 1006 mgO₂/g

Stability in water : Degradation half life (DT50): > 1 yr (50 °C)
pH: 4
Method: OECD Test Guideline 111
Remarks: Fresh water

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

Degradation half life (DT50): > 1 yr (50 °C)
pH: 7
Method: OECD Test Guideline 111
Remarks: Fresh water

Degradation half life (DT50): > 1 yr (50 °C)
pH: 9
Method: OECD Test Guideline 111
Remarks: Fresh water

disodium [N-(2-chlorophenyl)-2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxobutyramidato(2-)] [3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-):

Biodegradability : Biodegradation: 44,2 %
Exposure time: 28 d
Method: OECD Test Guideline 302B

Biochemical Oxygen Demand (BOD) : 6 mgO₂/g
Incubation time: 5 d
Method: Directive 67/548/EEC, Annex V, C.5
GLP: yes

Chemical Oxygen Demand (COD) : 1113 mgO₂/g

12.3 Bioaccumulative potential**Components:**

disodium [1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphtholato(2-)] [3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-):

Partition coefficient: n-octanol/water : log Pow: < 3 (20 °C)
Method: No information available.

trisodium bis[3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(3-):

Partition coefficient: n-octanol/water : log Pow: -1,74 (20 °C)

disodium [N-(2-chlorophenyl)-2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxobutyramidato(2-)] [3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitronaphthalene-1-sulphonato(3-)]chromate(2-):

Partition coefficient: n-octanol/water : log Pow: < 3 (20 °C)
Method: 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..

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

12.6 Other adverse effects**Product:**

Adsorbed organic bound halogens (AOX) : .1 %
Test substance: Chlorine

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Dispose of as hazardous waste in compliance with local and national regulations.
Dispose of contents/ container to an approved waste disposal plant.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information**IATA**

14.1 UN number : UN 3077

14.2 UN proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(CHROMIUM COMPLEX MONOAZO DYESTUFF)

14.3 Transport hazard class(es) : 9

14.4 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo aircraft) : 956

Packing instruction (passenger aircraft) : 956

IMDG

14.1 UN number : UN 3077

14.2 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(CHROMIUM COMPLEX MONOAZO DYESTUFF)

14.3 Transport hazard class(es) : 9

14.4 Packing group : III

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

Labels : 9
 EmS Code : F-A, S-F
14.5 Environmental hazards
 Marine pollutant : yes

ADR

14.1 UN number : UN 3077
14.2 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CHROMIUM COMPLEX MONOAZO DYESTUFF)
14.3 Transport hazard class(es) : 9
14.4 Packing group : III
 Labels : 9
14.5 Environmental hazards
 Environmentally hazardous : yes

RID

14.1 UN number : UN 3077
14.2 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CHROMIUM COMPLEX MONOAZO DYESTUFF)
14.3 Transport hazard class(es) : 9
14.4 Packing group : III
 Labels : 9
14.5 Environmental hazards
 Environmentally hazardous : no

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
 REACH - List of substances subject to authorisation - Future sunset date : Not applicable
 REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
 Ordinance on Protection against Major Accidents
 Threshold quantity according to Major Accidents Ordinance (MAO 814.012) : 2 000 kg

Other regulations:

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR

LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

822.115.2): Young people undergoing basic vocational training may only work with this product if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not completing any basic vocational training are not permitted to work with this product. Employees of either sex who are under 18 years old are classed as young people.

The components of this product are reported in the following inventories:

DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOIC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information**Full text of H-Statements**

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

Full text of other abbreviations

Aquatic Acute	: Short-term (acute) aquatic hazard
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LANASET® BLACK B GR

Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.1	16.01.2019	400001006407	Date of first issue: 27.10.2016

Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Irrit.	:	Eye irritation
Skin Sens.	:	Skin sensitisation

Classification of the mixture:**Classification procedure:**

Eye Irrit. 2	H319	Based on product data or assessment
Skin Sens. 1	H317	Based on product data or assessment
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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