

LANASET® BLUE 5G

Version	Revision Date:	SDS Number:	Date of last issue:
1.2	09/21/2017	400001005626	01/20/2017
			Date of first issue: 08/24/2015

SECTION 1. IDENTIFICATION

Product name : LANASET® BLUE 5G

Manufacturer or supplier's details

Company name of supplier : Huntsman International LLC
Address : 2795 Slough Avenue
Mississauga, ON L4T 1G2,
Canada
Telephone : +1 905 678 9150

E-mail address of person responsible for the SDS : MSDS@huntsman.com

Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Textile dyes, finishing and impregnating products; including bleaches and other processing aids

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the Hazardous Products Regulations**

Eye irritation : Category 2A

Acute aquatic toxicity : Category 3

Chronic aquatic toxicity : Category 2

GHS label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.
H402 Harmful to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/

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attention.
P391 Collect spillage.

Storage:
Not available

Disposal:
P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
sodium alpha-(chloroacetamido)[4-[[4-(cyclohexylamino)-9,10-dihydro-9,10-dioxo-1-anthryl]amino]phenoxy]xylenesulphonate	72391-24-3	70 - 80
cumene, monosulpho derivative, sodium salt	32073-22-6	10 - 20
2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	36290-04-7	5 - 10

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.
If skin irritation persists, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms : Causes serious eye irritation.

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and effects, both acute and delayed

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- | | |
|---|--|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : High volume water jet |
| Specific hazards during firefighting | : Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : No hazardous combustion products are known |
| 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. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust. |
| 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. |
| Methods and materials for containment and cleaning up | : Keep in suitable, closed containers for disposal. |

SECTION 7. HANDLING AND STORAGE

- | | |
|---|--|
| Advice on protection against fire and explosion | : Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust is formed. |
| Advice on safe handling | : Avoid formation of respirable particles. |

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Do not breathe vapours/dust.
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.

Conditions for safe storage : 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.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No hazardous decomposition products are known.

Further information on storage stability : Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Personal protective equipment

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

Hand protection

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

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

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.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : blue

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Odour	: odourless
Odour Threshold	: No data is available on the product itself.
pH	: 8 - 8.6 Concentration: 20 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)	: Not expected to form explosive dust-air mixtures.
Flammability (liquids)	: No data is available on the product itself.
Burning rate	: Fire will spread by smouldering or slow decomposition.
Self-ignition	: 440 °C Method: BAM
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.
Density	: 0.59 g/cm ³ Bulk density
Solubility(ies)	
Water solubility	: 65 g/l (30 °C) 100 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	: > 180 °C

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Self-Accelerating decomposition temperature (SADT)	:	No data is available on the product itself.
Viscosity	:	No data is available on the product itself.
Explosive properties	:	No data is available on the product itself.
Oxidizing properties	:	None.
Impact sensitivity	:	Not impact sensitive. Method: Other guidelines
Dust explosion class	:	St1
Particle size	:	No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Dust may form explosive mixture in air. No decomposition if stored and applied as directed.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.
Hazardous decomposition products	:	Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data is available on the product itself.

Acute toxicity**Components:**

sodium alpha-(chloroacetamido)[4-[[4-(cyclohexylamino)-9,10-dihydro-9,10-dioxo-1-anthryl]amino]phenoxy]xylenesulphonate:

Acute oral toxicityComponents	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity
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cumene, monosulpho derivative, sodium salt:

Acute oral toxicityComponents	:	LD50 (Rat, male and female): > 7,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity
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2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

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Acute oral toxicityComponents : LD50 (Rat): 6,168 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Components:

cumene, monosulpho derivative, sodium salt:

Acute inhalation toxicity : LC50 (Rat, male and female): > 6.41 mg/l
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity - Product : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

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

Skin corrosion/irritation**Product:**

Remarks: May cause skin irritation in susceptible persons.

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

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation**Components:**

sodium alpha-(chloroacetamido)[4-[[4-(cyclohexylamino)-9,10-dihydro-9,10-dioxo-1-anthryl]amino]phenoxy]xylenesulphonate:

Exposure routes: Skin

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

cumene, monosulpho derivative, sodium salt:

Exposure routes: Skin

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Assessment: No data available

Germ cell mutagenicity**Components:**

cumene, monosulpho derivative, sodium salt:

Genotoxicity in vitro : Concentration: 10000 ug/plate
Metabolic activation: with and without metabolic activation

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Result: negative

Concentration: 2500 µg/L
Metabolic activation: negative
Method: OPPTS 870.5300
Result: negative

Concentration: 5000 µg/L
Metabolic activation: Metabolic activation
Method: OPPTS 870.5900
Result: negative

Concentration: 5000 µg/L
Metabolic activation: with and without metabolic activation
Method: OPPTS 870.5375
Result: negative

Components:

cumene, monosulpho derivative, sodium salt:

Genotoxicity in vivo : Application Route: Oral
Exposure time: 72 h
Dose: 4467 mg/kg
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity**Components:**

cumene, monosulpho derivative, sodium salt:

Species: Rat, (male and female)
Application Route: Dermal
Exposure time: 24 month(s)
Dose: >= 240 mg/kg
Frequency of Treatment: 5 daily
Method: OECD Test Guideline 453
Result: negative

Carcinogenicity - : No data available
Assessment

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity**Components:**

cumene, monosulpho derivative, sodium salt:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Result: negative

Components:

cumene, monosulpho derivative, sodium salt:

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Effects on foetal development : Species: Rat, male and female
Application Route: Oral
General Toxicity Maternal: No observed adverse effect level:
> 936 mg/kg body weight
Result: No teratogenic effects

Reproductive toxicity - Assessment : No data available

STOT - single exposure**Components:**

cumene, monosulpho derivative, sodium salt:

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

STOT - repeated exposure**Components:**

cumene, monosulpho derivative, sodium salt:

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

Repeated dose toxicity**Components:**

cumene, monosulpho derivative, sodium salt:

Species: Mouse, male and female

NOAEL: ≥ 440 mg/kg

Application Route: Skin contact

Exposure time: 2,160 h

Number of exposures: 5 d

Method: Subchronic toxicity

Species: Rat, male and female

NOAEL: $> 763 - < 3534$ mg/kg

Application Route: Ingestion

Exposure time: 2,160 h

Number of exposures: 7 d

Method: Subchronic 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

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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**Product:**

Remarks: No data available

Other health hazards

No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxicity to fish - Product : LC50: 4.4 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 78 mg/l
aquatic invertebrates -
Product Exposure time: 48 h
Method: OECD Test Guideline 202

Components:

cumene, monosulpho derivative, sodium salt:

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): >= 758
mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: Algal Toxicity, Tiers I and II

EbC50 (Selenastrum capricornutum (green algae)): >= 230
mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: Algal Toxicity, Tiers I and II

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M-Factor (Acute aquatic toxicity) : No data available

Toxicity to fish (Chronic toxicity) : No data available

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

M-Factor (Chronic aquatic toxicity) : No data available

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

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment**Components:**

sodium alpha-(chloroacetamido)[4-[[4-(cyclohexylamino)-9,10-dihydro-9,10-dioxo-1-anthryl]amino]phenoxy]xylenesulphonate:

Acute aquatic toxicity : Toxic to aquatic life.

2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

Acute aquatic toxicity : Harmful to aquatic life.

Components:

sodium alpha-(chloroacetamido)[4-[[4-(cyclohexylamino)-9,10-dihydro-9,10-dioxo-1-anthryl]amino]phenoxy]xylenesulphonate:

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

2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Persistence and degradability

Biodegradability - Product : Biodegradation: 40 - 50 %
Exposure time: 28 d
Method: Simulation Test - Aerobic Sewage Treatment. A:
Activated Sludge Units

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Biochemical Oxygen Demand (BOD) - Product	: 0 mgO ₂ /g
Chemical Oxygen Demand (COD) - Product	: 1100 mgO ₂ /g
BOD/COD	: No data available
ThOD	: No data available
BOD/ThOD	: No data available
Dissolved organic carbon (DOC)	: No data available
Physico-chemical removability	: No data available
Stability in water	: No data available

Components:

cumene, monosulpho derivative, sodium salt:
Photodegradation : Test Type: Air
Test Type: Water
Test Type: Soil

Impact on Sewage Treatment : No data available

Bioaccumulative potential

Bioaccumulation : No data available

Components:

sodium alpha-(chloroacetamido)[4-[[4-(cyclohexylamino)-9,10-dihydro-9,10-dioxo-1-anthryl]amino]phenoxy]xylenesulphonate:
Partition coefficient: n-octanol/water : log Pow: < 3 (20 °C)
Method: No information available.

cumene, monosulpho derivative, sodium salt:
Partition coefficient: n-octanol/water : log Pow: -1.1 (23 °C)
pH: 6.9 - 7.2
Method: OECD Test Guideline 107

Mobility in soil

Mobility : No data available

Distribution among environmental compartments : No data available

Stability in soil : No data available

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Other adverse effects

Environmental fate and pathways	: No data available
Results of PBT and vPvB assessment	: No data available
Endocrine disrupting potential	: No data available
Adsorbed organic bound halogens (AOX) - Product	: 3.7 % Test substance: Chlorine

Hazardous to the ozone layer

Ozone-Depletion Potential	Not applicable
Additional ecological information - Product	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. Toxic to aquatic life with long lasting effects.
Global warming potential (GWP)	: No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

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

SECTION 14. TRANSPORT INFORMATION**International Regulations****TDG**

UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ANTHRAQUINONE DYESTUFF)
Class	: 9
Packing group	: III

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Labels : 9

IATA

UN/ID No. : UN 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(ANTHRAQUINONE DYESTUFF)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956

IMDG

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(ANTHRAQUINONE DYESTUFF)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**TDG**

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(ANTHRAQUINONE DYESTUFF)
Class : 9
Packing group : III
Labels : 9
ERG Code : 171
Marine pollutant : yes(ANTHRAQUINONE DYESTUFF)

SECTION 15. REGULATORY INFORMATION**The components of this product are reported in the following inventories:**

CH INV : The formulation contains substances listed on the Swiss Inventory, On the inventory, or in compliance with the inventory
TSCA : On the inventory, or in compliance with the inventory
DSL : On the inventory, or in compliance with the inventory
AICS : On the inventory, or in compliance with the inventory
NZIoC : On the inventory, or in compliance with the inventory
ENCS : Low volume exemption, On the inventory, or in compliance

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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

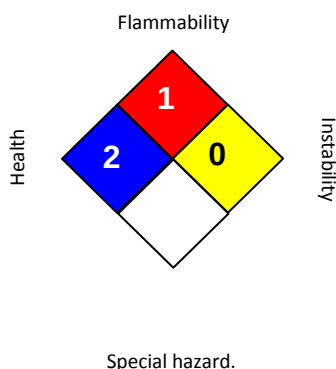
TCSI : On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

Canada. CEPA 1999 Significant New Activity (SNAc) List

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION**Further information****NFPA:****HMIS® IV:**

HEALTH		2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

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NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.