

**LANASET® BLUE 5G**

Version	Revision Date:	SDS Number:	Date of last issue: 23.01.2017
1.1	02.08.2017	400001005626	Date of first issue: 23.01.2017

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

Trade name : LANASET® BLUE 5G

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

Use of the Substance/Mixture : Textile dyes, finishing and impregnating products; including bleaches and other processing aids

**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 number**Emergency telephone number : Europe: +32 35751234  
Americas: +1 703 527 3887  
Africa: +32 35751234  
Asia & Pacific: +65 6336 6011  
China: +86 20 39377888  
+86 532 83889090  
India: + 91 22 42 87 5333  
USA & Canada: 800 424 9300**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.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

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

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Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H319 H411	Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P264 P273 P280 <b>Response:</b> P337 + P313  P391 <b>Disposal:</b> P501	Wash skin thoroughly after handling. Avoid release to the environment. Wear eye protection/ face protection.  If eye irritation persists: Get medical advice/ attention. Collect spillage.  Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

**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. Index-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
sodium $\alpha$ - (chloroacetamido)[4-[[4- (cyclohexylamino)-9,10- dihydro-9,10-dioxo-1- anthryl]amino]phenoxy]xylen esulphonate	72391-24-3 276-635-4	Aquatic Chronic2; H411	60 - 100
cumene, monosulpho derivative, sodium salt	32073-22-6 250-913-5	Eye Irrit.2; H319	7 - 13

For explanation of abbreviations see section 16.

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**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.  
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.

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

- Risks : Causes serious eye irritation.

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

- Treatment : No information available.

**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.
- Hazardous combustion products : No hazardous combustion products are known

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**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.

**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**

None

**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 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.
- 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.
- Dust explosion class : St1

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**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. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : No hazardous decomposition products are known.

Further information on storage stability : Keep in a dry place. No decomposition if stored and applied as directed.

**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
cumene, monosulpho derivative, sodium salt	Workers	Inhalation	Long-term systemic effects	26,9 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	68,1 mg/kg
	Consumers	Inhalation	Long-term systemic effects	6,6 mg/m <sup>3</sup>
	Workers	Dermal	Long-term local effects	0,096 mg/cm <sup>2</sup>
	Consumers	Dermal	Long-term local effects	0,048 mg/cm <sup>2</sup>
	Consumers	Oral	Long-term systemic effects	3,8 mg/kg
	Workers	Dermal	Long-term systemic effects	136,25 mg/kg

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

Substance name	Environmental Compartment	Value
cumene, monosulpho derivative, sodium salt	Fresh water	0,23 mg/l
Remarks:	Assessment Factors	
	Sewage treatment plant	100 mg/l
	Assessment Factors	

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	Freshwater - intermittent	2,3 mg/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

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 : powder

Colour : blue

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.

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

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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<sup>3</sup>  
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

Viscosity : No data is available on the product itself.

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

Oxidizing properties : None.

**9.2 Other information**

Impact sensitivity : Not impact sensitive.  
Method: Other guidelines

Dust explosion class : St1

Self-ignition : 440 °C  
Method: BAM

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

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

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**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**

Stable under normal conditions.

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

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

**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

**Components:**

cumene, monosulpho derivative, sodium salt:

Acute dermal toxicity : LD50 (Rabbit): > 2 000 mg/kg

Method: OECD Test Guideline 402

Assessment: The component/mixture is low toxic after single contact with skin.

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****Product:**



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Exposure routes: Skin  
Species: Guinea pig  
Assessment: Does not cause skin sensitisation.  
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  
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

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Result: negative

Carcinogenicity - Assessment : No data available

**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:  
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 hNumber of exposures: 5 d  
Method: Subchronic toxicity

Species: Rat, male and female  
NOAEL: > 763 - < 3534 mg/kg  
Application Route: Ingestion  
Exposure time: 2 160 hNumber of exposures: 7 d  
Method: Subchronic toxicity

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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****Product:**

Remarks: No data available

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

Toxicity to fish	: LC50 : 4,4 mg/l Exposure time: 48 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 78 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to microorganisms	: IC50 : > 300 mg/l

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Exposure time: 3 h

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

- Toxicity to fish : LC50 : 1,3 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 78 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
- Ecotoxicology Assessment  
Acute aquatic toxicity : Toxic to aquatic life.
- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.
- cumene, monosulpho derivative, sodium salt:
- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1 000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: Fish Acute Toxicity Test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids
- 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
- Toxicity to microorganisms : EC10 (activated sludge): > 1 000 mg/l  
Exposure time: 3 h  
Test Type: static test  
Test substance: Fresh water

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Method: OECD Test Guideline 209

EC10 (activated sludge): &gt; 1 000 mg/l

Exposure time: 3 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 209

**12.2 Persistence and degradability****Product:**

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

Biochemical Oxygen Demand (BOD) : 0 mgO<sub>2</sub>/g

Chemical Oxygen Demand (COD) : 1100 mgO<sub>2</sub>/g

**Components:**

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

Biodegradability : Result: Not biodegradable  
 Biodegradation: 40 %  
 Exposure time: 28 d  
 Method: Simulation Test - Aerobic Sewage Treatment. A: Activated Sludge Units

Biochemical Oxygen Demand (BOD) : 42 mgO<sub>2</sub>/g  
 Incubation time: 21 d

Chemical Oxygen Demand (COD) : 1116 mgO<sub>2</sub>/g

cumene, monosulpho derivative, sodium salt:

Biodegradability : Inoculum: activated sludge  
 Concentration: 20 mg/l  
 Result: Readily biodegradable.  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301B

Photodegradation : Test Type: Air

Test Type: Water

Test Type: Soil

**12.3 Bioaccumulative potential****Components:**

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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

**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..

**12.6 Other adverse effects****Product:**

Adsorbed organic bound halogens (AOX) : 3.7 %  
Test substance: Chlorine

Additional ecological information : 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.

**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.

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.

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(ANTHRAQUINONE 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.  
(ANTHRAQUINONE DYESTUFF)  
**14.3 Transport hazard class(es)** : 9  
**14.4 Packing group** : III  
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.  
(ANTHRAQUINONE 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.  
(ANTHRAQUINONE DYESTUFF)  
**14.3 Transport hazard class(es)** : 9  
**14.4 Packing group** : III  
Labels : 9  
**14.5 Environmental hazards**  
Environmentally hazardous : no

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

Not applicable for product as supplied.

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

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).

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

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

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), 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**

H319 : Causes serious eye irritation.

H411 : Toxic to aquatic life with long lasting effects.

**Full text of other abbreviations**

Aquatic Chronic : Chronic aquatic toxicity



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Eye Irrit. : Eye irritation

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

Eye Irrit. 2 H319

Calculation method

Aquatic Chronic 2 H411

Calculation method

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