

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 00042 Issue date: 12/8/2023 Revision date: 12/8/2023 Supersedes version of: 4/9/2015 Version: 1.0

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

#### 1.1. Product identifier Product form • Substance Trade name BENZOYL CHLORIDE EXTRA PURE EC Index-No. 607-012-00-0 EC-No. • 202-710-8 CAS-No. • 98-88-4 : 00042 Product code C7H5CIO Formula : Chemical structure ( ·Cl Synonyms : Benzenecarbonyl chloride, Benzoic acid chloride 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Use of the substance/mixture : Laboratory chemicals, Manufacture of substances 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663, F +91 22 6663 6699 info@lobachemie.com, www.lobachemie.com 1.4. Emergency telephone number Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhal.), Category 4	H332
Skin corrosion/irritation, Category 1	H314
Skin sensitisation, Category 1	H317
Full text of H- and EUH-statements: see section 16	

#### Adverse physicochemical, human health and environmental effects

Harmful in contact with skin. Harmful if inhaled. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

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2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
Signal word (CLP)	GHS05 GHS07 : Danger
Hazard statements (CLP)	<ul> <li>Banger</li> <li>H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.</li> <li>H314 - Causes severe skin burns and eye damage.</li> <li>H317 - May cause an allergic skin reaction.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P280 - Wear protective clothing, eye protection, face protection, protective gloves. P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Substance type Name CAS-No. EC-No. EC Index-No.	<ul> <li>Mono-constituent</li> <li>BENZOYL CHLORIDE</li> <li>98-88-4</li> <li>202-710-8</li> <li>607-012-00-0</li> </ul>	
Name	Product identifier	%
BENZOYL CHLORIDE	CAS-No.: 98-88-4	100

EC-No.: 202-710-8 EC Index-No.: 607-012-00-0

## 3.2. Mixtures

#### Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation	<ul> <li>Call a physician immediately.</li> <li>Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Call a poison center or a doctor if you feel unwell.</li> </ul>
First-aid measures after skin contact	: Immediately call a POISON CENTER/doctor. Specific measures (see supplemental first aid instruction on this label). Wash with plenty of water/ Wash contaminated clothing before reuse. Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately.

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First-aid measures after ingestion	<ul> <li>Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Do not induce vomiting. Call a physician immediately.</li> </ul>
4.2. Most important symptoms and effects, b	both acute and delayed
Symptoms/effects after inhalation	<ul> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Burns. May cause an allergic skin reaction.</li> </ul>
	<ul> <li>Causes serious eye damage. Serious damage to eyes.</li> <li>Swallowing a small quantity of this material will result in serious health hazard. Burns.</li> </ul>

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the subst	ance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>No fire hazard.</li> <li>No direct explosion hazard.</li> <li>Toxic fumes may be released.</li> </ul>
5.3. Advice for firefighters	
Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures	
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	<ul> <li>Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.</li> </ul>
6.1.1. For non-emergency personnel	
Protective equipment Emergency procedures	<ul> <li>Wear recommended personal protective equipment.</li> <li>Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Do not breathe dust/fume/gas/mist/vapours/spray.</li> </ul>
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	Evacuate unnecessary personnel. Stop leak if safe to do so.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	ment and cleaning up

For containment

: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

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Methods for cleaning up	: Take up liquid spill into absorbent material. Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling Hygiene measures	<ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only outdoors or in a well-ventilated area.</li> <li>Do not eat, drink or smoke when using this product. Wash hands, forearms and face</li> </ul>
7.2. Conditions for safe storage, including	thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Always wash hands after handling the product.
Technical measures Storage conditions	<ul> <li>Comply with applicable regulations.</li> <li>Store in original container. Store in a dry place. Keep container tightly closed. Store locked up.</li> </ul>
Packaging materials	: Store always product in container of same material as original container.
7.3. Specific end use(s)	

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

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## Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

**Eye protection:** Chemical goggles or face shield

#### 8.2.2.2. Skin protection

**Skin and body protection:** Wear a mask

Hand protection: Protective gloves

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Clear liquid.
Molecular mass	: 140.57 g/mol
Odour	: penetrating odor.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: -1 °C
Boiling point	: 198 °C
Flammability	: Non flammable.
Lower explosion limit	: 1.2 vol %
Upper explosion limit	: 4.9 vol %
Flash point	: 72 °C
Auto-ignition temperature	: 600 °C
Decomposition temperature	: Not available
рН	: 2 - 1 g/l (20°C)
Viscosity, kinematic	: Not available
Solubility	: Water: Reacts with water
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 1 hPa at 32°C
Vapour pressure at 50°C	: Not available
Density	: ≈ 1.21 g/cm³ at 20°C
Relative density	: Not available
Relative vapour density at 20°C	: 4.88
Particle characteristics	: Not applicable

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#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits

: 0.012 – 0.049 vol %

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

#### **10.2. Chemical stability**

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid** 

Direct sunlight. Overheating. Open flame. Heat. Sparks.

**10.5. Incompatible materials** 

No additional information available

**10.6. Hazardous decomposition products** 

Thermal decomposition generates : Corrosive vapours.

#### **SECTION 11: Toxicological information** 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity (oral) : Harmful if swallowed. Acute toxicity (dermal) Harmful in contact with skin. : Acute toxicity (inhalation) : Harmful if inhaled. Skin corrosion/irritation : Causes severe skin burns. pH: 2 - 1 g/l (20°C) Serious eye damage/irritation : Assumed to cause serious eye damage pH: 2 - 1 g/l (20°C) Respiratory or skin sensitisation : May cause an allergic skin reaction. Germ cell mutagenicity : Not classified Carcinogenicity Not classified

Reproductive toxicity: Not classifiedSTOT-single exposure: Not classifiedSTOT-repeated exposure: Not classifiedAspiration hazard: Not classified

## 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Potential adverse human health effects and symptoms

: Harmful if swallowed, Harmful in contact with skin.

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SECTION 12: Ecological information		
12.1. Toxicity		
Hazardous to the aquatic environment, short-term : (acute)	Before neutralisation, the product may represent a danger to aquatic organisms. Not classified Not classified	
12.2. Persistence and degradability		
BENZOYL CHLORIDE EXTRA PURE (98-88-4)		
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
No additional information available		

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	<ul> <li>Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations.</li> </ul>
Additional information	: Do not re-use empty containers.

# SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number		
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	: UN 1736 : UN 1736 : UN 1736 : UN 1736 : UN 1736	
14.2. UN proper shipping name		
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>BENZOYL CHLORIDE</li> <li>BENZOYL CHLORIDE</li> <li>Benzoyl chloride</li> </ul>	

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Proper Shipping Name (ADN)	: BENZOYL CHLORIDE
Proper Shipping Name (RID)	: BENZOYL CHLORIDE
Transport document description (ADR)	: UN 1736 BENZOYL CHLORIDE, 8, II, (E)
Transport document description (IMDG)	: UN 1736 BENZOYL CHLORIDE, 8, II
Transport document description (IATA)	: UN 1736 Benzoyl chloride, 8, II
Transport document description (ADN)	: UN 1736 BENZOYL CHLORIDE, 8, II
Transport document description (RID)	: UN 1736 BENZOYL CHLORIDE, 8, II

#### 14.3. Transport hazard class(es)

#### ADR

IMDG

Transport hazard class(es) (ADR) Danger labels (ADR)

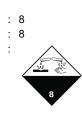
Transport hazard class(es) (IMDG)

Danger labels (IMDG)



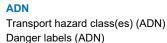
## ΙΑΤΑ

Transport hazard class(es) (IATA) Danger labels (IATA)



: 8

: 8



#### RID

Transport hazard class(es) (RID) Danger labels (RID)

# : 8 : 8



14.4. Packing group			
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	:    :    :    :		
14.5. Environmental hazards			
Dangerous for the environment	: No		

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Marine pollutant	: No
Other information	: No supplementary information available
14.6. Created pressutions for user	
14.6. Special precautions for user	
Overland transport	
Classification code (ADR)	: C3
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR) Mixed packing provisions (ADR)	: P001, IBC02 : MP15
Portable tank and bulk container instructions (ADR)	: T8
Portable tank and bulk container instructions (ADIX) Portable tank and bulk container special provisions	: TP2
(ADR)	. 112
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 80
Orange plates	00
	80
	1736
Tunnel restriction code (ADR)	: E
EAC code	: 4W
Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
IBC special provisions (IMDG)	: B20
Tank instructions (IMDG)	: T8
Tank special provisions (IMDG)	: TP2, TP13
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: C
Stowage and handling (IMDG)	: SW2
Segregation (IMDG) Properties and observations (IMDG)	: SGG1, SG36, SG49 : Colourless liquid, very irritating odour, causes tears. Reacts violently with water, evolving
	hydrogen chloride, an irritating and corrosive gas apparent as white fumes. In the presence
	of moisture, highly corrosive to most metals. Vapour irritates mucous membranes.
MFAG-No	: 137
A in the new ort	
Air transport PCA Excepted quantities (IATA)	: E2
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
ERG code (IATA)	: 8W
In the device of the second	
Inland waterway transport	. 02
Classification code (ADN) Limited quantities (ADN)	: C3 : 1L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	. EZ : PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: C3
Limited quantities (RID)	: 1L

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Excepted quantities (RID)		E2
Packing instructions (RID)		P001, IBC02
Mixed packing provisions (RID)		MP15
Portable tank and bulk container instructions (RID)		T8
Portable tank and bulk container special provisions		TP2
(RID) Tank codes for RID tanks (RID) Transport category (RID) Colis express (express parcels) (RID) Hazard identification number (RID)		L4BN 2 CE6 80

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	BENZOYL CHLORIDE EXTRA PURE

#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

#### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

#### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	<ul> <li>WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 2118).</li> <li>Is not subject of the Hazardous Incident Ordinance (12. BImSchV)</li> </ul>
Netherlands	
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding	<ul> <li>The substance is not listed</li> <li>The substance is not listed</li> <li>The substance is not listed</li> </ul>

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SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

# **15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Abbreviations and acr	onyms:
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet

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Abbreviations and acronyms:		
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Sens. 1	Skin sensitisation, Category 1

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.