



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Top Efekt NORMAL

Creation date 10th August 2000  
Revision date 20th May 2021 Version 2.0

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

- 1.1. Product identifier** Top Efekt NORMAL  
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Product designed for cleaning hard floors and surfaces resistant to water and alkaline substances
- Mixture uses advised against**  
not available
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**
- |                    |  |
|--------------------|--|
| Name or trade name | TENZI Sp. z o.o.                             |
| Address            | Skarbimierzycze 20, Dołuje, 72-002<br>Poland |
| VAT Reg No         | PL8512583405                                 |
| Phone              | +48 91 3119777                               |
| E-mail             | info@tenzi.pl                                |
| Web address        | www.tenzi.pl                                 |
- Competent person responsible for the safety data sheet**  
Name technolog@tenzi.pl
- 1.4. Emergency telephone number**  
European emergency number: 112

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is classified as dangerous.

Eye Dam. 1, H318

Full text of all classifications and hazard statements is given in the section 16.

#### Most serious adverse effects on human health and the environment

Causes serious eye damage.

- 2.2. Label elements**  
**Hazard pictogram**



**Signal word**  
Danger

**Hazardous substances**  
Alcohols, C11-13-branched, ethoxylated

**Hazard statements**  
H318 Causes serious eye damage.

**Precautionary statements**  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

#### Supplemental information



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<5 % anionic surfactants, <5 % non-ionic surfactants, perfumes, Citral, Linalool, Hexyl cinnamal, Limonene

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68439-54-3 Registration number: polimer	Alcohols, C11-13-branched, ethoxylated	<5	Acute Tox. 4, H302 Eye Dam. 1, H318	
CAS: 15763-76-5 EC: 239-854-6 Registration number: 01-2119489411-37-XXXX	Sodium cumene sulfonate	<1,5	Eye Irrit. 2, H319	
Index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 Registration number: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol	<1,5	Eye Irrit. 2, H319	1, 2

#### Notes

- 1 Substance with a Union workplace exposure limit.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

#### If swallowed

DO NOT INDUCE VOMITING - even the induced vomiting can cause complications as in case of detergents and other foaming substances.



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### 4.2. Most important symptoms and effects, both acute and delayed

#### If inhaled

Not expected.

#### If on skin

Not expected.

#### If in eyes

Causes serious eye damage.

#### If swallowed

Disorder of digestive system, stomach pain, vomiting, diarrhoea.

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

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### Unsuitable extinguishing media

Water - full jet.

### 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

### 6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in a tightly closed, original plastic container (high density polyethylene HDPE). Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor. DO NOT expose the product to sunlight and keep away from heat, frost, sparks, flame and source of ignition.

Storage temperature

min 5 °C, max 35 °C

### 7.3. Specific end use(s)

not available



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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### European Union

#### Commission Directive 2006/15/EC

Substance name (component)	Type	Value
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	OEL 8 hours	67,5 mg/m <sup>3</sup>
	OEL 8 hours	10 ppm
	OEL 15 minutes	101,2 mg/m <sup>3</sup>
	OEL 15 minutes	15 ppm

#### DNEL

##### 2-(2-butoxyethoxy)ethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	20 mg/kg	Systemic chronic effects	
Workers	Inhalation	67.5 mg/l	Systemic chronic effects	
Workers	Inhalation	67.5 mg/l	Local chronic effects	
Consumers	Inhalation	50.6 mg/l	Local acute effects	
Consumers	Dermal	10 mg/kg	Systemic chronic effects	
Consumers	Inhalation	3 mg/l	Systemic chronic effects	
Consumers	Oral	1.25 mg/kg	Systemic chronic effects	
Consumers	Inhalation	34 mg/l	Local chronic effects	

##### Sodium cumene sulfonate

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	7.6 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	53.6 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	3.8 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	13.2 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Oral	3.8 mg/kg bw/day	Systemic chronic effects	

#### PNEC

##### 2-(2-butoxyethoxy)ethanol

Route of exposure	Value	Determining method
Drinking water	1 mg/l	
Seawater	0.1 mg/l	
Freshwater sediment	4 mg/kg	
Sea sediments	0.4 mg/kg	
Soil (agricultural)	0.4 mg/kg	
Microorganisms in wastewater treatment plants	200 mg/l	
Oral	56 mg/kg	

##### Sodium cumene sulfonate

Route of exposure	Value	Determining method
Drinking water	0.23 mg/l	
Microorganisms in wastewater treatment plants	100 mg/l	
	2.3 mg/l	



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### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

When handling in long-term or repeatedly, use protective gloves.

#### Respiratory protection

Under regular circumstances it is not necessary.

#### Thermal hazard

Data not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

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

Physical state	liquid
Color	yellow
Odour	characteristic of the composition used for
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	11 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	data not available
Relative density	1,002 g/cm <sup>3</sup> (+-) 0,020

### 9.2. Other information

not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

not available

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.



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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.

##### 2-(2-butoxyethoxy)ethanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD <sub>50</sub>	2410 mg/kg		Mouse			SDS
Dermal	LD <sub>50</sub>	2764 mg/kg		Rabbit			SDS

##### Alcohols, C11-13-branched, ethoxylated

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD <sub>50</sub>	>300-2000 mg/kg		Rat (Rattus norvegicus)		Based on evidence	karta charakterystyki
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rat (Rattus norvegicus)		Based on evidence	karta charakterystyki

##### Sodium cumene sulfonate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD <sub>50</sub>	>7000 mg/kg		Rat (Rattus norvegicus)			karta charakterystyki
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit			karta charakterystyki

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

##### Alcohols, C11-13-branched, ethoxylated

Route of exposure	Result	Method	Time of exposure	Species	Determining method	Source
	Not irritating			Rabbit	Based on evidence	karta charakterystyki

##### Sodium cumene sulfonate

Route of exposure	Result	Method	Time of exposure	Species	Determining method	Source
	Slightly irritating	OECD 404		Rabbit		karta charakterystyki

#### Serious eye damage/irritation

Causes serious eye damage.

##### Alcohols, C11-13-branched, ethoxylated

Route of exposure	Result	Method	Time of exposure	Species	Determining method	Source
	Irritating, Serious eye damage			Rabbit	Based on evidence	karta charakterystyki



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Sodium cumene sulfonate

Route of exposure	Result	Method	Time of exposure	Species	Determining method	Source
Eye	Irritating	OECD 405		Rabbit		karta charakterystyki

### Sensitization

Sodium cumene sulfonate

Route of exposure	Result	Method	Time of exposure	Species	Sex	Source
Dermal	No effect	OECD 406		Guinea-pig (Cavia aperea f. porcellus)		karta charakterystyki

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Alcohols, C11-13-branched, ethoxylated

Route of exposure	Result	Time of exposure	Species	Sex	Determining method	Source
	No effect		Guinea-pig (Cavia aperea f. porcellus)		Based on evidence	karta charakterystyki

### Mutagenicity

Sodium cumene sulfonate

Result	Time of exposure	Specific target organ	Species	Sex	Source
No effect					karta charakterystyki

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

Alcohols, C11-13-branched, ethoxylated

Result	Method	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
No effect						Based on evidence	karta charakterystyki

Sodium cumene sulfonate

Result	Method	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
Not carcinogenic	OECD 453			Rat (Rattus norvegicus)			karta charakterystyki

### Carcinogenicity

Based on available data the classification criteria are not met.



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### Reproductive toxicity

Based on available data the classification criteria are not met.

Sodium cumene sulfonate

Effect	Parameter	Value	Result	Species	Sex	Source
	NOEL	>936 mg/kg	No effect	Rat ( <i>Rattus norvegicus</i> )		karta charakterystyki

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Aspiration hazard

Based on available data the classification criteria are not met.

## 11.2. Information on other hazards

not available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

Data for the mixture are not available.

2-(2-butoxyethoxy)ethanol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC <sub>50</sub>		1300 mg/l		Fishes ( <i>Lepomis macrochirus</i> )			SDS
EC <sub>50</sub>		>100 mg/l		Aquatic invertebrates ( <i>Daphnia magna</i> )			SDS
EC <sub>50</sub>	OECD 201	>100 mg/l		Algae ( <i>Scenedesmus subspicatus</i> )			SDS
EC 10	OECD 209	>1995 mg/l					SDS

Alcohols, C11-13-branched, ethoxylated

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC <sub>50</sub>	OECD 203	>1-10 mg/kg	96 hour	Fishes ( <i>Oncorhynchus mykiss</i> )		Based on evidence	karta charakterystyki
EC <sub>50</sub>	OECD 202	>1-10 mg/l	48 hour	<i>Daphnia magna</i>		Based on evidence	karta charakterystyki
EC <sub>50</sub>	OECD 201	>1-10 mg/l	72 hour	Algae ( <i>Desmodesmus subspicatus</i> )		Based on evidence	karta charakterystyki





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Sodium cumene sulfonate

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
EC <sub>50</sub>	EPA OTS 797.1300	>1000 mg/l	48 hour	Daphnia (Daphnia magna)			karta charakterystyki
Ebc <sub>50</sub>	EPA OTS 797.1050	>230 mg/l	96 hour	Algae (Selenastrum capricornutum)			karta charakterystyki
NOEC	EPA OPPTS 850.1010	31 mg/l	96 hour	Algae (Selenastrum capricornutum)			karta charakterystyki
ErC <sub>50</sub>	OECD 209	>1000 mg/l	3 hour	Bacteria (Salmonella typhimurium)	Activated sludge		karta charakterystyki
LD <sub>50</sub>	EPA OTS 797.1400	>1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)			karta charakterystyki

### 12.2. Persistence and degradability

#### Biodegradability

Alcohols, C11-13-branched, ethoxylated

Parameter	Method	Value	Time of exposure	Environment	Determining method	Result	Source
	OECD 301A	>70 %	28 day		Based on evidence	Easily biodegradable	karta charakterystyki
	OECD 301B	>60 %	28 day		Based on evidence	Easily biodegradable	karta charakterystyki

Sodium cumene sulfonate

Parameter	Method	Value	Time of exposure	Environment	Determining method	Result	Source
		100 %	28 day			Easily biodegradable	karta charakterystyki

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended.

### 12.3. Bioaccumulative potential

Sodium cumene sulfonate

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
Logpow	-1.1 mg/kg					karta charakterystyki

Data not available.

### 12.4. Mobility in soil

Data not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties



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not available

### 12.7. Other adverse effects

Data not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended.

#### Waste type code

07 06 04 other organic solvents, washing liquids and mother liquors \*

#### Packaging waste type code

15 01 02 plastic packaging

(\* ) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

## SECTION 14: Transport information

### 14.1. UN number or ID number

Not subject to ADR

### 14.2. UN proper shipping name

not available

### 14.3. Transport hazard class(es)

not available

### 14.4. Packing group

not available

### 14.5. Environmental hazards

No

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

not available

## SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.



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### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

2-(2-butoxyethoxy)ethanol

Restriction	Conditions of restriction
55	<p>1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.</p> <p>2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.</p> <p>3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows:</p> <p>"Do not use in paint spraying equipment".</p>

### 15.2. Chemical safety assessment

Chemical safety assessment has not been carried out for the mixture.

Alcohols, C11-13-branched, ethoxylated: the manufacturer has performed a chemical safety assessment

Sodium cumene sulfonate: A Chemical Safety Assessment has been carried out

2-(2-butoxyethoxy)ethanol: A Chemical Safety Assessment has been carried out

### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.

#### Guidelines for safe handling used in the safety data sheet

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

#### Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road  
BCF Bioconcentration Factor  
CAS Chemical Abstracts Service  
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures  
DNEL Derived no-effect level  
EC Identification code for each substance listed in EINECS  
EC<sub>50</sub> Concentration of a substance when it is affected 50% of the population  
EINECS European Inventory of Existing Commercial Chemical Substances  
EmS Emergency plan  
EU European Union  
EuPCS European Product Categorisation System  
IATA International Air Transport Association  
IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals  
IC<sub>50</sub> Concentration causing 50% blockade  
ICAO International Civil Aviation Organization  
IMDG International Maritime Dangerous Goods  
INCI International Nomenclature of Cosmetic Ingredients  
ISO International Organization for Standardization



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IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.	Acute toxicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

General update

### More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.