

Safety Data Sheet

BELTRACO DYE TRANSFER STAIN REMOVER



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

1.1. Product identifier

Mixture identification:

Trade name:

BELTRACO DYE TRANSFER STAIN REMOVER (250 ML)

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

Recommended use:

Mixtures for the industrial and/or professional care and maintenance of leather items.

Uses advised against:

Stick to the recommended use.

1.3. Details of the supplier of the safety data sheet

Supplier:

Beltraco Benelux B.V.

Biestkampweg 21, 5249 JV Rosmalen, Nederland

Tel.: +31 (0)73 645 03 43

E-Mail: info@beltraco.nl

www.beltraco.nl

1.4. Antigifcentrum


Dutch National Poison Information Center (UMC Utrecht)

Intended only to inform professional responders of acute poisonings

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

 Warning, Eye Irrit. 2, Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash hands thoroughly after handling.

P280 Wear eye protection.

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/attention.

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards.








SECTION 3: Composition/information on ingredients

3.1. Substances

Not available

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number		Classification
20% - 25%	(2-methoxymethylethoxy)propanol	CAS:	34590-94-8	Substance with a Union workplace exposure limit.
		EC:	252-104-2	
		REACH No.:	01-2119450011-60	
7% - 10%	ethanediol	Index number:	603-027-00-1	 3.1/4/Oral Acute Tox. 4 H302  3.9/2 STOT RE 2 H373 (oral)
		CAS:	107-21-1	
		EC:	203-473-3	
		REACH No.:	01-2119456816-28	
7% - 10%	4-hydroxy-4-methylpentan-2-one	Index number:	603-016-00-1	 2.6/3 Flam. Liq. 3 H226  3.3/2 Eye Irrit. 2 H319  3.8/3 STOT SE 3 H335
		CAS:	123-42-2	
		EC:	204-626-7	
		REACH No.:	01-2119473975-21	
1% - 3%	docusate sodium	CAS:	577-11-7	 3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318
		EC:	209-406-4	
		REACH No.:	01-2119491296-29	

Regulation (EC) nr 648/2004 (detergents):

anionic surfactants <5%
 non-ionic surfactants <5%
 perfumes

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

For the most important symptoms and effects, caused by exposure, see the label (section 2) and/or section 11.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO₂, foam, dry extinguishers, nebulised water.

Extinguishing media which must not be used for safety reasons:

Do not use jets of water as it can cause the spread of fire.

Water can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion.

Do not inhale combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

EQUIPMENT

Fire fighting clothing i. e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure air breathing apparatus (BN EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: inert absorbing material.

6.3. Methods and material for containment and cleaning up

Stop the leak or spill if this is not a risk. Use inert absorbent material to surround the contaminated area.

Collect the product wearing, if necessary, appropriate protective equipment for a possible recovering or for disposal. Dispose in line with current laws and norms. Do not pour into drains.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not eat or drink while working. Do not smoke.

Avoid contact with skin and eyes, inhalation of vapours and mists.

Avoid contemporary handling of any incompatible materials (see section 10).

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Wash hands thoroughly after shift.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place at a temperature between +5/40°C.

Keep away from food, drink and feed.

Incompatible materials:

None in particular. See also section 10.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular, except those listed in paragraph 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Source: GESTIS International Limit Values Database

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8
 TLV-ACGIH - TWA: 606 mg/m³, 100 ppm - STEL: 909 mg/m³, 150 ppm
 ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: Skin - Eye and URT irr, CNS impair
 EU - TWA(8h): 308 mg/m³, 50 ppm - Notes: Skin
 Deutschland (AGS) - TWA: 310 mg/m³, 50 ppm - STEL(): 310 mg/m³, 50 ppm - Notes: Inhalable aerosol and vapour
 Deutschland (DFG) - TWA: 310 mg/m³, 50 ppm - STEL(): 310 mg/m³, 50 ppm - Notes: Inhalable aerosol and vapour
 España - TWA: 308 mg/m³, 50 ppm
 France - TWA: 308 mg/m³, 50 ppm - Behaviour: Binding
 Italia - TWA: 308 mg/m³, 50 ppm
 Nederland - TWA: 300 mg/m³
 Österreich - TWA: 307 mg/m³, 50 ppm - STEL: 614 mg/m³, 100 ppm - Notes: TWA = MAK Langzeitwert STEL = Kurzzeitwert
 Polska - TWA: 240 mg/m³ - STEL: 280 mg/m³
 Sverige - TWA: 300 mg/m³, 50 ppm - STEL(): 450 mg/m³, 75 ppm
 Türkiye - TWA: 308 mg/m³, 50 ppm
 United Kingdom - TWA: 308 mg/m³, 50 ppm
 ethanediol - CAS: 107-21-1
 ACGIH - TWA(8h): 25 ppm - STEL: 50 ppm - Notes: (V), A4 - URT irr
 ACGIH - STEL: 10 mg/m³ - Notes: (I, H), A4 - URT irr
 EU - TWA(8h): 52 mg/m³, 20 ppm - STEL: 104 mg/m³, 40 ppm - Notes: Skin
 Deutschland (AGS) - TWA: 26 mg/m³, 10 ppm - STEL(): 52 mg/m³, 20 ppm - Notes: Inhalable aerosol and vapour
 Deutschland (DFG) - TWA: 26 mg/m³, 10 ppm - STEL(): 52 mg/m³, 20 ppm - Notes: Inhalable fraction and vapour
 France - TWA: 52 mg/m³, 20 ppm - STEL: 104 mg/m³, 40 ppm - Behaviour: Indicative
 Italia - TWA: 52 mg/m³, 20 ppm - STEL: 104 mg/m³, 40 ppm - Notes: Skin
 Nederland - TWA: 52 mg/m³ - STEL: 104 mg/m³
 Österreich - TWA: 26 mg/m³, 10 ppm - STEL: 52 mg/m³, 20 ppm - Notes: TWA = MAK Langzeitwert STEL = Kurzzeitwert
 Polska - TWA: 15 mg/m³ - STEL: 50 mg/m³
 Sverige - TWA: 25 mg/m³, 10 ppm - STEL(): 50 mg/m³, 20 ppm
 United Kingdom - TWA: 52 mg/m³, 20 ppm - STEL: 104 mg/m³, 40 ppm
 4-hydroxy-4-methylpentan-2-one - CAS: 123-42-2
 ACGIH - TWA(8h): 50 ppm - Notes: URT and eye irr
 TLV-ACGIH - TWA: 238 mg/m³, 50 ppm - Notes: pelle/skin
 Deutschland (AGS) - TWA: 96 mg/m³, 20 ppm - STEL(): 192 mg/m³, 40 ppm
 Deutschland (DFG)
 France - TWA: 240 mg/m³, 50 ppm
 Österreich - TWA: 240 mg/m³, 50 ppm - Notes: TWA = MAK Langzeitwert STEL = Kurzzeitwert
 Polska - TWA: 240 mg/m³
 Sverige - TWA: 120 mg/m³, 25 ppm - STEL(): 240 mg/m³, 50 ppm
 United Kingdom - TWA: 241 mg/m³, 50 ppm - STEL: 362 mg/m³, 75 ppm

Legal base:

TLV-ACGIH: ACGIH 2014 and updates

UE European Union: Directive 2000/39/CE**

Deutschland (AGS): Technische Regeln für Gefahrstoffe, Arbeitsplatzgrenzwerte, TRGS 900**

Deutschland (DFG): MAK-und BAT-Werte-Liste 2012**

España: INSHT Limites de exposición profesional para agentes químicos en España 2015**

France: Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984. INRS (2006)**

Italia: Decreto Ministeriale 26/02/2004**

Nederland: Nationale wettelijke publieke grenswaarden**

Österreich: Grenzwertverordnung 2003 - GVK 2003**

Sverige: Occupational Exposure Limit Values, Statute Book of the Swedish Work Environment Authority, AFS 2011:18, English Translation**

United Kingdom: EH40/2005 Workplace exposure limits**

**and updates

DNEL Exposure Limit Values

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 310 mg/m - Consumer: 37.2 mg/m - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 65 mg/kg - Consumer: 15 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

ethanediol - CAS: 107-21-1

Worker Industry: 35 mg/m - Consumer: 7 mg/m - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 106 mg/kg - Consumer: 53 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 4-hydroxy-4-methylpentan-2-one - CAS: 123-42-2
 Consumer: 3.4 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
 Worker Industry: 240 mg/m - Consumer: 120 mg/m - Exposure: Human Inhalation - Frequency: Short Term (acute)
 Worker Industry: 66.4 mg/m - Consumer: 11.8 mg/m - Exposure: Human Inhalation - Frequency: Long Term, local effects
 Worker Industry: 66.4 mg/m - Consumer: 11.8 mg/m - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Worker Industry: 9.4 mg/kg - Consumer: 3.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8
 Target: Fresh Water - Value: 19 mg/l
 Target: Marine water - Value: 1.9 mg/l
 Target: Freshwater sediments - Value: 7.02 mg/kg
 Target: Microorganisms in sewage treatments - Value: 4168 mg/l
 Target: Soil (agricultural) - Value: 2.74 mg/kg
 ethanediol - CAS: 107-21-1
 Target: Fresh Water - Value: 10 mg/l
 Target: Marine water - Value: 1 mg/l
 Target: Freshwater sediments - Value: 37 mg/kg
 Target: Marine water sediments - Value: 3.7 mg/kg
 Target: Soil (agricultural) - Value: 1.53 mg/kg
 Target: Microorganisms in sewage treatments - Value: 199.5 mg/l
 4-hydroxy-4-methylpentan-2-one - CAS: 123-42-2
 Target: Fresh Water - Value: 2 mg/l
 Target: Marine water - Value: 0.2 mg/l
 Target: Freshwater sediments - Value: 9.06 mg/kg
 Target: Marine water sediments - Value: 0.91 mg/kg
 Target: Microorganisms in sewage treatments - Value: 10 mg/l
 Target: Soil (agricultural) - Value: 0.63 mg/kg

8.2. Exposure controls

As the adoption of adequate preventive measures must always take priority over personal protective equipment, make sure that:

- in case of inhalation exposure limit values, the workplace is well ventilated through an effective local aspiration system or other technical equipment, in order to maintain airborne levels below the exposure limits values
- if inhalation exposure limit values are not applicable, a good general ventilation is generally sufficient for most operations
- an emergency shower with face and eye wash station is available
- personal protective equipment is CE marked, in compliance with applicable standards

Individual protection measures

Use in well-ventilated areas. Do not breathe vapours. Do not get in eyes and on skin.
 Adopt a correct personal hygiene. Do not consume or store food in the work areas.
 Wash hands before smoking or eating.

Eye protection:

Use eye protecting goggles suitable to chemical risks.

Protection for skin:

Use clothing that provides comprehensive protection to the skin.

Protection for hands:

Protect hands with gloves suitable for protection against chemical agents (see standard EN 374).

In case of short-term exposure (splash protection):

Nitrile, neoprene or butyl rubber gloves

Breakthrough time: 30 min

Minimum thickness: 0.4 mm

In case of long-term exposure:

Butyl rubber, Viton or nitrile gloves

Breakthrough time: 480 min

Minimum thickness: 0.7 mm

The information provided here is indicative. The following parameters should be considered when choosing work glove material: degradation, failure time and permeability.

In case of chemical mixtures, the work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and frequency of use.

Respiratory protection:

In case of inadequate ventilation, prolonged exposure or mists/vapours/aerosol exposure (eg. spray application) use a respiratory protective equipment (eg. full face mask according to the DIN EN 136 standard with A Filter for organic gases and vapours according to DIN EN 141).

Thermal Hazards:

None

Environmental exposure controls:

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	fluid		
	colourless	UNI EN ISO 15528:2003 (3.11+6.7)/UNI EN ISO 1513:1996	--
Odour:	characteristic	--	--
Odour threshold:	Not available	--	--
pH:		--	--
Melting point / freezing point:	<0 °C	Expert judgement	--
Initial boiling point and boiling range:	>100 °C	Expert judgement	--
Flash point:	>60 °C	Expert judgement	--
Evaporation rate:	Not available	--	--
Solid/gas flammability:	Not Relevant*	--	--
Upper/lower flammability or explosive limits:	Not available	--	--
Vapour pressure:	Not available	--	--
Vapour density:	Not available	--	--
Relative density:	1.00 ± 0.05 g/cm ³	UNI EN ISO 2811-1	--
Solubility in water:	miscible	--	--
Solubility in oil:	miscible in organic solvents	--	--
Partition coefficient (n-octanol/water):	Not available	--	--
Auto-ignition temperature:	Not available	--	--
Decomposition temperature:	Not available	--	--
Viscosity:	Not available	--	--
Explosive properties:	Not Relevant*	--	--
Oxidizing properties:	Not Relevant*	--	--

*Data not applicable or not relevant due to the nature of the product and / or on account of its chemical composition.

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not available	--	--
Fat Solubility:	Not available	--	--
Conductivity:	Not available	--	--
Substance Groups relevant properties	Not available	--	--

*Data not applicable or not relevant due to the nature of the product and / or on account of its chemical composition.

VOC total content: 82-84%

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None in particular in the normal conditions of use.

10.4. Conditions to avoid

The product is stable under normal storage/use conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

May produce toxic and noxious fumes in case of fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

Serious eye damage/irritation

Stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Further information

Inhalation: may cause drowsiness and headaches.

Toxicological information of the product:

- a) acute toxicity
 - Not classified
 - Based on available data, the classification criteria are not met
- b) skin corrosion/irritation
 - Not classified
 - Based on available data, the classification criteria are not met
- c) serious eye damage/irritation
 - The product is classified: Eye Irrit. 2 H319
- d) respiratory or skin sensitisation
 - Not classified
 - Based on available data, the classification criteria are not met
- e) germ cell mutagenicity
 - Not classified
 - Based on available data, the classification criteria are not met
- f) carcinogenicity
 - Not classified
 - Based on available data, the classification criteria are not met
- g) reproductive toxicity
 - Not classified
 - Based on available data, the classification criteria are not met
- h) STOT-single exposure
 - Not classified
 - Based on available data, the classification criteria are not met
- i) STOT-repeated exposure
 - Not classified
 - Based on available data, the classification criteria are not met
- j) aspiration hazard
 - Not classified
 - Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

ethanediol - CAS: 107-21-1

- a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat = 7712 mg/kg
 - Test: LD50 - Route: Skin - Species: Mouse > 3500 mg/kg
 - Test: LC50 - Route: Inhalation - Species: Rat > 3.95 mg/l - Duration: 7h

docusate sodium - CAS: 577-11-7

- a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat > 200 mg/kg

Further information

No one in particular.

SECTION 12: Ecological information

12.1. Toxicity

Adopt sound working practices, so that the product is not released into the environment.

Not classified for environmental hazards

Based on available data, the classification criteria are not met

12.2. Persistence and degradability

None

Not available

12.3. Bioaccumulative potential

Not available

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

This material is NOT RESTRICTED for transportation (ADR/RID, IMDG, IATA, ICAO).

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

Not available

14.6. Special precautions for user

Not available

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

No

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Based on information we have, a Chemical Safety Assessment, if expected, has been carried out for the substances in the mixture by the manufacturer or the importer.

SECTION 16: Other information

Text of phrases referred to under heading 3:

H302 Harmful if swallowed.

H373 (oral) May cause damage to organs through prolonged or repeated exposure if swallowed.

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification

SECTION 3: Composition/information on ingredients

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 13: Disposal considerations

SECTION 15: Regulatory information

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Eye Irrit. 2, H319	Calculation method

This document was prepared by a competent person who has received appropriate training.

Further information

This product must be kept, handled and used in accordance with health and safety regulations, sound industrial practice and conforming to the laws in force.

The workers must have appropriate training on the above.

The information given is based on our present knowledge, at the time of sending the data sheet and only serves for describing the product for security reasons, without guaranteeing specific properties.
Due to the various uses of our product and for factors not dependent on us, no responsibility is accepted for the use of this information.
Please keep your records up to date and make this sheet available to all relevant personnel. This safety sheet cancels and substitutes any other previous issue.

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

ECHA database on registered substances (<http://apps.echa.europa.eu/registered/registered-sub.aspx>)

ECHA Classification and Labelling Inventory (http://echa.europa.eu/clp/c_l_inventory_en.asp)

GESTIS hazardous substances database of German Berufsgenossenschaften

(<http://www.dguv.de/ifa/Gefahrstoffdatenbanken/GESTIS-Stoffdatenbank/index-2.jsp>)

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.

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