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Safety data sheet

inting date 24.08.20)17	Version number 4	Revision: 24.08.2017
SECTION 1:	Identification of t	he substance/mixture an	d of the company/undertaking
- 1.1 Product iden	ıtifier		
- Trade name: erg	20 5012		
		stance or mixture and uses a	dvised against
	nt information available		
- Application of the	he substance / the mix	ture Adhesives	
	e supplier of the safety	y data sheet	
- Manufacturer/S	upplier:		
Kisling AG Motorenstrasse 1	02		
CH-8620 Wetzik			
Telefon: +41-(0)			Telefax: +41-(0) 58-272 0 273
- Further informa	ation obtainable from:	Safety Department	
	ing MSDS: ergo@kisl		
		x Info Suisse: 145 / +41-44-2 5	51 51 51
SECTION 2:	Hazards identifica	ation	
	n of the substance or r		
- Classification ac	cording to Regulation	n (EC) No 1272/2008	
Skin Irrit. 2 H31	5 Causes skin irritation	n.	
Eye Irrit. 2 H31	9 Causes serious eye in	rritation.	
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord	5 May cause respirator nts ding to Regulation (EC	ry irritation. C) No 1272/2008	
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord	5 May cause respirator hts ding to Regulation (EC assified and labelled acc	ry irritation.	
STOT SE 3 H33 - 2.2 Label element - Labelling accord The product is cla	5 May cause respirator hts ding to Regulation (EC assified and labelled acc	ry irritation. C) No 1272/2008	
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra	5 May cause respirator nts ding to Regulation (EC assified and labelled acc ims	ry irritation. C) No 1272/2008	
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra GHS07 - Signal word Waa - Hazard-determi	5 May cause respirator nts ding to Regulation (EC assified and labelled acc ms rning ning components of la	ry irritation. C) No 1272/2008 cording to the CLP regulation.	
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra GHS07 - Signal word Wat - Hazard-determi ethyl 2-cyanoacry	5 May cause respirator nts ding to Regulation (EC assified and labelled acc ms rning ning components of la ylate	ry irritation. C) No 1272/2008 cording to the CLP regulation.	
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra GHS07 - Signal word Wat - Hazard-determi ethyl 2-cyanoacry - Hazard statemen	5 May cause respirator nts ding to Regulation (EC assified and labelled acc ms rning ning components of la ylate nts	ry irritation. C) No 1272/2008 cording to the CLP regulation.	
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra GHS07 - Signal word Wat - Hazard-determi ethyl 2-cyanoacry - Hazard statemer H315 Causes skin	5 May cause respirator nts ding to Regulation (EC assified and labelled acc ms rning ning components of la ylate nts n irritation.	ry irritation. C) No 1272/2008 cording to the CLP regulation.	
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra GHS07 - Signal word Wat - Hazard-determi ethyl 2-cyanoacry - Hazard statemer H315 Causes skir H319 Causes seri	5 May cause respirator nts ding to Regulation (EC assified and labelled acc ms rning ning components of la ylate nts	ry irritation. C) No 1272/2008 cording to the CLP regulation.	
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra GHS07 - Signal word Wat - Hazard-determi ethyl 2-cyanoacry - Hazard statemer H315 Causes skin H319 Causes seri H335 May cause - Precautionary statemer	5 May cause respirator nts ding to Regulation (EC assified and labelled acc ms ning components of la ylate nts n irritation. ious eye irritation. respiratory irritation. tatements	ry irritation. C) No 1272/2008 cording to the CLP regulation.	
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra GHS07 - Signal word Wat - Hazard-determi ethyl 2-cyanoacry - Hazard statemer H315 Causes skin H319 Causes seri H335 May cause - Precautionary sta P261	5 May cause respirator nts ding to Regulation (EC assified and labelled acc ms rning ning components of la ylate nts n irritation. ious eye irritation. respiratory irritation. tatements Avoid breathing vapo	ry irritation. C) No 1272/2008 cording to the CLP regulation. Ibelling:	
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra - GHS07 - Signal word Wat - Hazard-determi ethyl 2-cyanoacry - Hazard statemen H315 Causes skin H319 Causes seri H335 May cause - Precautionary st P261 P280	5 May cause respirator nts ding to Regulation (EC assified and labelled acc ms rning ning components of la ylate nts n irritation. ious eye irritation. respiratory irritation. tatements Avoid breathing vapor Wear protective glow	ry irritation. C) No 1272/2008 cording to the CLP regulation. Ibelling: Durs. res / eye protection.	comfortable for breathing
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra GHS07 - Signal word Wat - Hazard-determi ethyl 2-cyanoacry - Hazard statemer H315 Causes skir H319 Causes seri H335 May cause - Precautionary st P261 P280 P304+P340	5 May cause respirator ints ding to Regulation (EC assified and labelled acc ins rning ning components of la ylate nts n irritation. ious eye irritation. respiratory irritation. tatements Avoid breathing vapor Wear protective glove IF INHALED: Remo	ry irritation. C) No 1272/2008 cording to the CLP regulation. Ibelling: purs. es / eye protection. we person to fresh air and keep	
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STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra GHS07 - Signal word Wat - Hazard-determi ethyl 2-cyanoacry - Hazard statemer H315 Causes skin H319 Causes seri H335 May cause - Precautionary st P261 P280 P304+P340 P305+P351+P33 P312	5 May cause respirator ints ding to Regulation (EC assified and labelled acc ims rning ning components of la vlate nts n irritation. ious eye irritation. respiratory irritation. respiratory irritation. tatements Avoid breathing vapor Wear protective glove IF INHALED: Remo 8 IF IN EYES: Rinse of present and easy to de Call a POISON CEN	ry irritation. C) No 1272/2008 cording to the CLP regulation. abelling: Durs. res / eye protection. rive person to fresh air and keep cautiously with water for seve o. Continue rinsing. TER/doctor if you feel unwell.	eral minutes. Remove contact lenses, i
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra GHS07 - Signal word Wat - Hazard-determi ethyl 2-cyanoacry - Hazard statemer H315 Causes skin H319 Causes seri H335 May cause - Precautionary st P261 P280 P304+P340 P305+P351+P33 P312 P312 P312 P312	5 May cause respirator ints ding to Regulation (EC assified and labelled acc ms rning ning components of la ylate nts n irritation. ious eye irritation. respiratory irritation. respiratory irritation. tatements Avoid breathing vapor Wear protective glove IF INHALED: Remo 8 IF IN EYES: Rinse of present and easy to do Call a POISON CEN If skin irritation occur	ry irritation. C) No 1272/2008 cording to the CLP regulation. Ibelling: Durs. res / eye protection. rive person to fresh air and keep cautiously with water for seve o. Continue rinsing.	eral minutes. Remove contact lenses, i
STOT SE 3 H33 - 2.2 Label elemer - Labelling accord The product is cla - Hazard pictogra GHS07 - Signal word Wat - Hazard-determi ethyl 2-cyanoacry - Hazard statemer H315 Causes skin H319 Causes seri H335 May cause - Precautionary st P261 P280 P304+P340 P305+P351+P33 P312 P312 P32+P313 - Additional infor	5 May cause respirator ints ding to Regulation (EC assified and labelled acc ms rning ning components of la vlate nts n irritation. ious eye irritation. respiratory irritation. respiratory irritation. tatements Avoid breathing vapor Wear protective glove IF INHALED: Remo 8 IF IN EYES: Rinse of present and easy to do Call a POISON CEN If skin irritation occur mation:	ry irritation. C) No 1272/2008 cording to the CLP regulation. abelling: Durs. res / eye protection. rive person to fresh air and keep cautiously with water for seve o. Continue rinsing. TER/doctor if you feel unwell.	eral minutes. Remove contact lenses, i n.

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- Labelling of packages where the contents do not - Hazard pictograms	t exceed 125 ml
GHS07	
- Signal word Warning	
- Hazard-determining components of labelling: ethyl 2-cyanoacrylate - Hazard statements Void	

- Hazard statements Void

- 2.3 Other hazards

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- **Description:** Adhesive

anoacrylate 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	50-<100%
2, 112 12, 2, 2, 2, 112 12, 112	
roxybenzene I341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic I400; Acute Tox. 4, H302; Skin Sens. 1, H317	0.025-<0.1%
	I341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:

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

If skin irritation continues, consult a doctor.

- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

- After swallowing:
- Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.

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⁻ **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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(Contd. of page 2) **SECTION 5: Firefighting measures** - 5.1 Extinguishing media - Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. - For safety reasons unsuitable extinguishing agents: Water with full jet - 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide Danger of forming toxic pyrolysis products. Under certain fire conditions, traces of other toxic gases cannot be excluded. - 5.3 Advice for firefighters - Protective equipment: Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. - Additional information Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. **SECTION 6: Accidental release measures** - 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Use respiratory protective device against the effects of fumes/dust/aerosol. Avoid contact with the eyes and skin. - 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. - 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Ensure adequate ventilation. Dispose of the material collected according to regulations. - 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 10 for information on "stability and reactivity". See Section 13 for disposal information. **SECTION 7: Handling and storage** - 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

- Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

-7.2 Conditions for safe storage, including any incompatibilities

- Storage:

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

- Information about storage in one common storage facility: Not required.

- Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store under lock and key and out of the reach of children.

Protect from heat and direct sunlight.

- Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers): 10-13

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-7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

-8.1 Control parameters

	- 8.1 Control parameters		no monitoring of the marked lasse
- Ingredients with limit values that require monitoring at the workplace:			
7085-85-0 ethyl 2-cyanoacrylate MAK (Switzerland) Long-term value: 9 mg/m³, 2 ppm			
	1,4-dihydroxyben		ng/m², 2 ppm
	itzerland) Short-to		2 mg/m3
MAK (Sw		erm value: 2 e	
	H S C2		
- DNELs	1		
7085-85-0	ethyl 2-cyanoaci	ylate	
	Langzeit, Lokale	-	9.25 mg/m ³ (all)
			9.25 mg/m ³ (ber)
	Langzeit, System	ische Effekte	9.25 mg/m ³ (all)
			9.25 mg/m ³ (ber)
123-31-9	l,4-dihydroxyben	zene	
Dermal	Langzeit, System	ische Effekte	64 mg/kg bw/day (all)
			128 mg/kg bw/day (ber)
Inhalative	Langzeit, Lokale	Effekte	0.5 mg/m ³ (all)
			1 mg/m ³ (ber)
	Langzeit, Systemische Effekte		1.74 mg/m ³ (all)
7			7 mg/m ³ (ber)
- PNECs			
123-31-9	1,4-dihydroxyben	zene	
PNEC Süf	PNEC Süßwasser 0.114 mg/l		
PNEC Süß	Bwassersediment	0.00098 mg/	kg Sediment
PNEC Me	erwasser	0.0114 mg/l	
PNEC Boo	den	0.000129 mg	g/kg Boden
PNEC Klä	iranlage	0.71 mg/l	
PNEC Me	PNEC Meerwassersediment 0.000097 mg/kg Sediment		
The lists v Ensure goo	I information: alid during the ma od ventilation/exha umidity should be	austion at the	workplace.
- 8.2 Expos - Personal J - General p The usual	ure controls protective equipn protective and hyg	nent: gienic measur sures are to b	res: e adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

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Respiratory protection:	(Contd. of page 4
	ive device in case of insufficient ventilation.
Filter B	
Protection of hands:	
Protective gloves (EN 374)	
	b each use for their proper condition.
	permeable and resistant to the product/ the substance/ the preparation.
e	on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves Find below a list of appropriate	protective gloves for chemical surrounding:
	me: $= 60$ minutes (DIN EN 374):
Butyl, Nr. 0898	
Permeation time / penetration ti	me: = 30 minutes (DIN EN 374):
Chloropren Nitril II, Nr. 0717	
	0736, 0737, 0738, 0739 oder 0836
Viton, Nr. 0890	
Butyl II, Nr. 0897	
of KCL company (e-mail: vertr	ieb@kcl.de).
The recommendation is based	exclusively on the chemical compatibility and the test according to EN37-
under laboratory conditions.	
Requirements can vary according	ing to the use. Therefore, please always take into account the glove supplier?
recommendations.	
	oves does not only depend on the material, but also on further marks of qualit
	to manufacturer. As the product is a preparation of several substances, the
application.	l can not be calculated in advance and has therefore to be checked prior to th
Penetration time of glove mat	arial
	as to be found out by the manufacturer of the protective gloves and has to b
observed.	
	me: see above (material of gloves)
Not suitable are gloves made	of the following materials: Cotton gloves
Eye protection: Safety glasses	
~~~~	
SECTION 9: Physical ar	· ·
9.1 Information on basic phys General Information	sical and chemical properties
Appearance:	
Form:	Fluid
Colour:	Colourless
Odour:	Irritant
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Unange in condition	

Undetermined.

- Change in condition Melting point/freezing point: Undete Initial boiling point and boiling range: >35°C - Flash point:  $>80^{\circ}C$ Not applicable. - Flammability (solid, gas):

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- Ignition temperature:		
Decomposition temperature:	Not determined.	
- Auto-ignition temperature:	Product is not self-igniting.	
- Explosive properties:	Product does not present an explosion hazard.	
- Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
- Vapour pressure:	Not determined.	
- Density at 25°C:	1,06g/cm ³ (DIN 51757)	
- Relative density	Not determined.	
- Vapour density	Not determined.	
- Evaporation rate	Not determined.	
- Solubility in / Miscibility with		
water:	Hydrolised.	
- Partition coefficient: n-octanol/water:	Not determined.	
- Viscosity:		
Dynamic at 25°C:	70-120mPas	
Kinematic:	Not determined.	
- 9.2 Other information	No further relevant information available.	

## **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: Protect from heat and direct sunlight.
- 10.3 Possibility of hazardous reactions

Exothermic polymerisation.

- Reacts with alcohols, amines, aqueous acids and alkalis.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

No dangerous products of decomposition if used and stored according to specifications.

## **SECTION 11: Toxicological information**

## - 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.

## - LD/LC50 values relevant for classification:

## 7085-85-0 ethyl 2-cyanoacrylate

Oral LD50 >5,000 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rab) (OECD 402)

## 123-31-9 1,4-dihydroxybenzene

Oral LD50 375 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rab) (OECD 402)

## - Primary irritant effect:

- Skin corrosion/irritation
- Causes skin irritation.

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#### - Serious eye damage/irritation

Causes serious eye irritation.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- No experimentally found toxicological data are available for this preparation.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure
- May cause respiratory irritation.

- STOT-repeated exposure Based on available data, the classification criteria are not met.

- Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

## -12.1 Toxicity

## - Aquatic toxicity:

## 123-31-9 1,4-dihydroxybenzene

LC50/96 h 0.638 mg/l (Oncorhynchus mykiss)

EC50/48 h 0.061 mg/l (Daphnia magna)

EC50/72 h 0.33 mg/l (Pseudokirchneriella subcapitata)

- 12.2 Persistence and degradability No further relevant information available.

- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Danger to drinking water if even small quantities leak into the ground.

Do not allow product to reach ground water, water course or undiluted sewage system.

- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods

- Recommendation Disposal must be made according to official regulations.

## - European waste catalogue

	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

#### - Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.

## **SECTION 14: Transport information**

#### - 14.1 UN-Number

- ADR, IMDG

Void

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- IATA	UN3334
- 14.2 UN proper shipping name - ADR, IMDG - IATA	Void Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)
- 14.3 Transport hazard class(es)	
- ADR, ADN, IMDG - Class	Void
- IATA	
- Class - Label	<ul><li>9 Miscellaneous dangerous substances and articles.</li><li>9</li></ul>
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Anno Marpol and the IBC Code	ex II of Not applicable.
- Transport/Additional information:	
- IATA - Remarks:	Primary packs containing not more than 500ml are unregulated by this mode of transport and may be shipped unrestricted.
- UN ''Model Regulation'':	Void

## **SECTION 15: Regulatory information**

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

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

- National regulations:

- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## - Relevant phrases

H302 Harmful if swallowed.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

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H400 Very toxic to aquatic life.
- Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- * Data compared to the previous version altered.
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