

COLO-RE-..color

Revision nr. 1 Dated 28/07/2015

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	Safety data sheet
SECTION 1. Identification of the subs	stance/mixture and of the company/undertaking
1.1. Product identifier Code: Product name	COLO-RE COLOURING REFRESHING SYSTEM
1.2. Relevant identified uses of the substance or m Intended use Acrylic impregnating	ixture and uses advised against for cement on solvent.
1.3. Details of the supplier of the safety data sheet Company name Address Place and country	IDEAL WORK SRL Via Kennedy, 52 31030 Vallà di Riese Pio X (TV) Italy tel. 0423 /4535
	fax 0423 /748429
e-mail address for a competent person, responsible for the safety data sheet	sicurezza@idealwork.it
1.3 Emergency telephone number For information in an emergency	Poison center: National Poisons Information Service (Birmingham Unit) City Hospital Dudley Rd Birmingham Telephone: +44 121 507 4123 Fax: +44 121 507 55 88 Emergency telephone: 844 892 0111
SECTION 2. Hazards identification.	
2.1. Classification of the substance or mixture.	
supplements). The product thus requires a safety datash	e provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and leet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. In and/or the environment are given in sections 11 and 12 of this sheet.
2.1.1. Regulation 1272/2008 (CLP) and following an	pendments and adjustments.

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Hazard classification and indication:		
Flammable liquid, category 3	H226	Flammable liquid and vapour.
Reproductive toxicity, effects on or via lactation	H362	May cause harm to breast-fed children.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated
		exposure.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Hazardous to the aquatic environment, chronic toxicity,	H411	Toxic to aquatic life with long lasting effects.
category 2		

2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols: Xn R phrases:

10-20/21-38-52/53-64-65

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.



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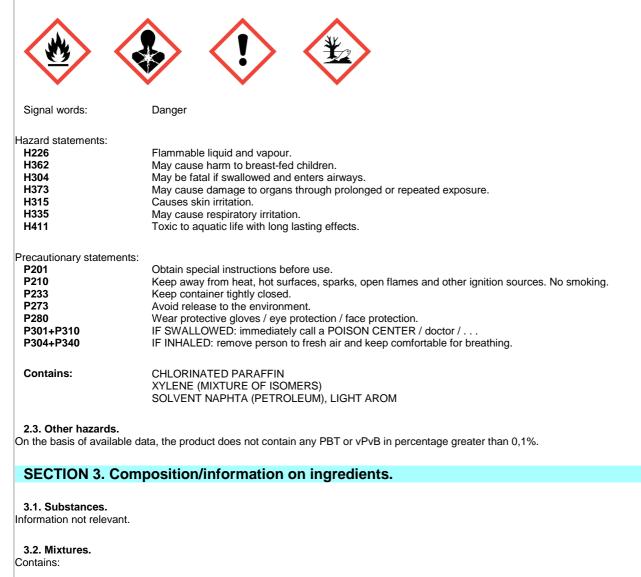
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2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



Identification. XYLENE (MIXTURE OF ISOMERS)	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
CAS. 1330-20-7	45 - 47,5	R10, Xn R20/21, Xi R38, Note C	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H335, Note C
EC. 215-535-7			
INDEX. 601-022-00-9			
SOLVENT NAPHTA (PETROLEUM), LIGHT AROM			
CAS. 64742-95-6 EC. 265-199-0	30 - 32,5	Xn R65, Note P	Asp. Tox. 1 H304, Note P
INDEX. 649-356-00-4			
N-BUTYL ACETATE			
CAS. 123-86-4 EC. 204-658-1	3,5 - 4	R10, R66, R67	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
INDEX. 607-025-00-1			



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R64, R66, N R50/53

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Lact. H362, Aquatic Acute 1 H400 M=1, Aquatic

Chronic 1 H410 M=10, EUH066

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CHLORINATED PARAFFIN

CAS. 85535-85-9

EC. 287-477-0

INDEX. 602-095-00-X

Reg. no. 01-2119519269-33-0002

Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

1.5 - 2

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal 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 compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.



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6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

AUS	Österreich	Grenzwerteverordnung 2011 - GKV 2011
BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2010
CHE	Suisse / Schweiz	Valeurs limites d`exposition aux postes de travail 2012. / Grenzwerte am Arbeitsplatz
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GRB	United Kingdom	EH40/2005 Workplace exposure limits
HRV	Hrvatska	NN13/09- Institut za sigurnost Zagreb
IRL	Éire	Code of Practice Chemical Agent Regulations 2011
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

XYLENE (MIXTURE OF ISOMERS)

	Threshold Limit Value.						
	Туре	Country	TWA/8h		STEL/15min		
			mg/m3	ppm	mg/m3	ppm	
ľ	МАК	AUS	221	50	442	100	SKIN.
	VLEP	BEL	221	50	442	100	SKIN.
	AGW	DEU	440	100	880	200	SKIN.
	MAK	DEU	440	100	880	200	SKIN.
	VLEP	FRA	221	50	442	100	SKIN.
	WEL	GRB	220	50	441	100	
	GVI	HRV	221	50	442	100	SKIN.
	MDK	HRV	440	100	655	150	
	OEL	IRL	221	50	442	100	SKIN.



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TLV	ITA	221	50	442	100	SKIN.	
OEL	EU	221	50	442	100	SKIN.	
TLV-ACGIH		434	100	651	150		

N-BUTYL ACETATE

Threshold Limit Value.					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
MAK	AUS	480	100	480	100
VLEP	BEL	723	150	964	200
VEL	CHE	480	100	960	200
MAK	CHE	480	100	960	200
MAK	DEU	480	100	960	200
VLEP	FRA	710	150	940	200
WEL	GRB	724	150	966	200
GVI	HRV	724	150	966	200
MDK	HRV	950	200		
OEL	IRL	710	150	950	200
TLV-ACGIH		713	150	950	200

Paraffina clorurata

Health - Derived no-effect le	evel - DNEL / DI	MEL						
	Effects on				Effects on			
	consumers.				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Skin.							VND	11,5 mg/kg
								bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

TLV of solvent mixture: 446 mg/m3.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

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 type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).



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RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

9.2. Other information.

VOC (Directive 2004/42/EC) :	80,50 %	-	725,00	g/litre.
VOC (volatile carbon) :	71,19 %	-	644,26	g/litre.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use. N-BUTYL ACETATE: decomposes readily with water, especially when warm.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.



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10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

N-BUTYL ACETATE: risk of explosion on contact with: strong oxidising agents. Can react dangerously with alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with the air.

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition. N-BUTYL ACETATE: avoid exposure to moisture, sources of heat and naked flames.

10.5. Incompatible materials.

N-BUTYL ACETATE: water, nitrates, strong oxidising agents, acids and alkalis and potassium tert-butoxide.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

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. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product must be handled carefully because of its possible negative effects on children during the breast-feeding period.

The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and pulmonary edema.

This product may cause functional disorders or morphological mutations after repeated or prolonged exposure and/or may accumulate inside the human body and is thus graded as dangerous.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin.

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

Acute effects: inhalation of this product may irritate the lower and upper respiratory tract and cause cough and respiratory disorders; at higher concentrations it can also cause pulmonary edema. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

N-BUTYL ACETATE:in humans the substance's vapours cause irritation to the eues and nose. In the event of repeated exposure, there is skin irritation, dermatosis (with driness and flaking of the skin) and keratitis.

CHLORINATED PARAFFIN LD50 (Oral).> 4000 mg/kg Rat LD50 (Dermal).4000 mg/kg Rat LC50 (Inhalation).> 48170 mg/m3 Rat

XYLENE (MIXTURE OF ISOMERS) LD50 (Oral).3523 mg/kg Rat LD50 (Dermal).4350 mg/kg Rabbit LC50 (Inhalation).26 mg/l/4h Rat

N-BUTYL ACETATE LD50 (Oral).> 6400 mg/kg Rat LD50 (Dermal).> 5000 mg/kg Rabbit LC50 (Inhalation).21,1 mg/l/4h Rat

SECTION 12. Ecological information.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment. 12.1. Toxicity.

> 5000 mg/l/96h

Chlorinated paraffin

LC50 - for Fish.

EC50 - for Algae / Aquatic Plants. 5,9 mg/l



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Chronic NOEC for Algae / Aquatic Plants.	0,01 mg/l
12.2. Persistence and degradability. XYLENE (MIXTURE OF ISOMERS)	
Solubility in water.	mg/l 100 - 1000
Biodegradability: Information not available.	
N-BUTYL ACETATE	
Solubility in water.	mg/l 1000 - 10000
Solubility in water.	ing/1000 - 10000
SOLVENT NAPHTA (PETROLEUM), LIGHT AROM Rapidly biodegradable.	
12.3. Bioaccumulative potential. XYLENE (MIXTURE OF ISOMERS)	
Partition coefficient: n-octanol/water.	3,12
BCF.	25,9
N-BUTYL ACETATE	
Partition coefficient: n-octanol/water.	2,3
BCF.	15,3
12.4. Mobility in soil. XYLENE (MIXTURE OF ISOMERS)	
Partition coefficient: soil/water.	2,73
ratition coefficient. son/water.	2,15
N-BUTYL ACETATE	
Partition coefficient: soil/water.	< 3
SOLVENT NAPHTA (PETROLEUM), LIGHT AROM Partition coefficient: soil/water.	4 70
Farmon Coemcient. Son/water.	1,78
12.5. Results of PBT and vPvB assessm	ient.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.



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I .1. UN number. ADR / RID, IMDG, I	ATA:	UN: 1263		
4.2. UN proper ship ADR / RID:	p ing name. PAINT	(CHLORINATED PARAFFIN)		
IMDG:	PAINT	(CHLORINATED PARAFFIN)		
IATA:	PAINT	(CHLORINATED PARAFFIN)		
4.3. Transport haza	ard class(es).			
ADR / RID:	Class: 3	Label: 3	8	
IMDG:	Class: 3	Label: 3		
IATA:	Class: 3	Label: 3	8	
14.4. Packing group			•	
ADR / RID, IMDG, I	ATA:	III		
14.5. Environmental ADR / RID:	hazards. Environmentally.	Hazardous		
IMDG:	Marine Pollutant.	<	×	
IATA:	NO		V	
For Air transport, envi	ironmentally hazardou	is mark is only mandatory for UN 3077 and	UN 3082.	
14.6. Special precau	tions for user.			
ADR / RID:		Nr. Kemler: 30	Limited Quantity 5 L	Tunnel restriction code (D/E)
		Special Provision: 640E		
IMDG:		EMS: F-E, #S-E	Limited	
IATA:		Cargo:	Quantity 5 L Maximum quantity: 220 L	Packaging instructions: 366
		Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
		Special Instructions:	A3, A72, A192	000

Packaging: 5 LT METAL BUCKET – APPROVAL 1A2/Y1,4/100/15 – Ø 19,80 cm x 21,4cmH – Weight 0,95 KG



H226

H362

Flammable liquid and vapour.

May cause harm to breast-fed children.

IDEAL WORK

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	egulatory information.
15.1. Safety, health a Seveso category.	and environmental regulations/legislation specific for the substance or mixture. 6
Restrictions relating to t	he product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.
<u>Product.</u> Point.	3 - 40
<u>Substances in Candidat</u> None.	te List (Art. 59 REACH).
<u>Substances subject to a</u> None.	authorisarion (Annex XIV REACH).
<u>Substances subject to e</u> None.	exportation reporting pursuant to (EC) Reg. 649/2012:
<u>Substances subject to t</u> None.	he Rotterdam Convention:
<u>Substances subject to t</u> None.	he Stockholm Convention:
Healthcare controls.	
	s chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to th ety are modest and that the 98/24/EC directive is respected.
/OC (Directive 2004/42	2/EC) :
Binding primers. Limit value:	750,00 (2010)
VOC of product :	725,00
15.2. Chemical safet No chemical safety asso	y assessment. essment has been processed for the mixture and the substances it contains.
SECTION 16. C	other information.
Fext of hazard (H) indic	ations mentioned in section 2-3 of the sheet:
Flam. Liq. 3	Flammable liquid, category 3
Lact.	Reproductive toxicity, effects on or via lactation
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2



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H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R10	FLAMMABLE.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R38	IRRITATING TO SKIN.
R50/53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R52/53	HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R64	MAY CAUSE HARM TO BREASTFED BABIES.
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R66	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).



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GENERAL BIBLIOGRAPHY

- 1. Directive 1999/45/EC and following amendments
- 2. Directive 67/548/EEC and following amendments and adjustments
- 3. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 4. Regulation (EU) 1272/2008 (CLP) of the European Parliament
- 5. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 6. Regulation (EU) 453/2010 of the European Parliament
- 7. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 8. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 9. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 944/2013 (V Atp. CLP) of the European Parliament
- 11. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition

ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.