

SAFETY DATA SHEET

SÜDWEST Unterwasser Farbe

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name SÜDWEST Unterwasser Farbe

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

Coating compound/ Surface coating/ paint

Uses advised against This information is not available.

1.3 Details of the supplier of the safety data sheet

SÜDWEST Lacke + Farben GmbH & Co.KG
Iggelheimer Str. 13
D - 67459 Böhl-Iggelheim
Telephone: +49 6324/709-0
Telefax: +49 6324/709-175
www.suedwest.de

E-mail address of person responsible for the SDS
European Union sdb@suedwest.de

1.4 Emergency telephone number
European Union

Phone: +44 (0)1235 239 670

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

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Serious eye damage,
Category 1

H318: Causes serious eye damage.

Specific target organ toxicity
- single exposure, Category
3, Respiratory system

H335: May cause respiratory irritation.

Specific target organ toxicity
- repeated exposure,
Category 2

H373: May cause damage to organs through prolonged
or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H373 May cause damage to organs through
prolonged or repeated exposure.

Precautionary
statements

P102 Keep out of reach of children.
Prevention:
P210 Keep away from heat, hot surfaces,
sparks, open flames and other ignition
sources. No smoking.
P280 Wear protective gloves/ eye protection/
face protection.
P284 Wear respiratory protection.
Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse
cautiously with water for several
minutes. Remove contact lenses, if
present and easy to do. Continue
rinsing. Immediately call a POISON
CENTER/doctor.

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P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Disposal:

P501

Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

Hazardous components which must be listed on the label:

xylene (mixture of isomers)
2-methylpropan-1-ol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Solvent mixture with additives

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
xylene (mixture of isomers)	1330-20-7 215-535-7 01-2119488216-32-XXXX	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	≥ 20 - < 25
2-methylpropan-1-ol	78-83-1 201-148-0 01-2119484609-23-XXXX	Flam. Liq.3; H226 Eye Dam.1; H318 STOT SE3; H335, H336 Skin Irrit.2; H315	≥ 1 - < 5
toluene	108-88-3 203-625-9 01-2119471310-51-XXXX	Flam. Liq.2; H225 STOT RE2; H373 Asp. Tox.1; H304 Skin Irrit.2; H315	≥ 0,3 - < 1

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		STOT SE3; H336 Repr.2; H361d	
zinc oxide	1314-13-2 215-222-5 01-2119463881-32- XXXX	Aquatic Acute1; H400 Aquatic Chronic1; H410	≥ 0,1 - < 0,25
Substances with a workplace exposure limit :			
2-methoxy-1- methylethyl acetate	108-65-6 203-603-9 01-2119475791-29- XXXX	Flam. Liq.3; H226	≥ 20 - < 30

For explanation of abbreviations see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Inhalation	Move to fresh air in case of accidental inhalation of vapours or decomposition products. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Skin contact	Take off contaminated clothing and shoes immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.
Ingestion	Rinse mouth with water. If swallowed, seek medical advice immediately and show this container or label. Keep at rest. Do NOT induce vomiting.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment Treat symptomatically.
No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media High volume water jet

5.2 Special hazards arising from the substance or mixture

Fire may cause evolution of:
Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Exposure to decomposition products may be a hazard to health.
Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Fight fire with normal precautions from a reasonable distance.

Additional advice

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.
Ensure adequate ventilation.
Do not breathe vapour.
Prevent unauthorized access.

6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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Clean with detergents. Avoid solvents.
Clean contaminated surface thoroughly.
Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Comply with the statutory regulations on health and safety at work.
Avoid formation of aerosol.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limit values.
The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
All metal parts of the mixing and processing equipment must be earthed.
Operators should wear antistatic footwear and clothing. No sparking tools should be used.

Hygiene measures

Do not breathe spray, vapour.
Take off immediately all contaminated clothing.
Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.
After washing hands, replenish lost skin oil by means of oily skin ointment.
When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container.
Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. Nosmoking.
Prevent unauthorized access.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Protect from frost, heat and sunlight.

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Advice on protection
against fire and
explosion

Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.
Take measures to prevent the build up of electrostatic
charge.

Advice on common
storage

Keep away from combustible materials.
Keep away from food, drink and animal feedingstuffs.
Keep away from oxidizing agents and strongly acid or
alkaline materials.

7.3 Specific end use(s)

For further information, see also Technical Data Sheet for
the product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

2-methoxy-1-methylethyl acetate		108-65-6
2000/39/EC	Short term exposure limit	550 mg/m ³
2000/39/EC	Short term exposure limit	100 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	
2000/39/EC	Limit Value - eight hours	275 mg/m ³
2000/39/EC	Limit Value - eight hours	50 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	
xylene (mixture of isomers)		1330-20-7
2000/39/EC	Limit Value - eight hours	221 mg/m ³
2000/39/EC	Limit Value - eight hours	50 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	
2000/39/EC	Short term exposure limit	442 mg/m ³
2000/39/EC	Short term exposure limit	100 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	
toluene		108-88-3
2006/15/EC	Limit Value - eight hours	192 mg/m ³
2006/15/EC	Limit Value - eight hours	50 ppm
Additional advice:	Indicative	
2006/15/EC	Short term exposure limit	384 mg/m ³
	Identifies the possibility of significant uptake through the skin	

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2006/15/EC	Short term exposure limit	100 ppm
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Additional advice:	Indicative
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Identifies the possibility of significant uptake through the skin

The lists that were valid during the creation were used as basis.

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates solvent vapour below the occupational exposure limit values, suitable respiratory - protection must be worn. Washing facilities / water for rinsing eyes and skin should be available.

Individual protection measures, such as personal protective equipment

a) Eye/face protection Safety glasses with side-shields conforming to EN166

b) Skin protection
Hand protection Recommended preventive skin protection
Before starting work, apply water-resistant skincare preparations to exposed skin areas.
Protective gloves should be worn in case of skin contact during preparation and application.

Break through time: 480 min
Minimum thickness: 0,4 mm
Gloves made of nitrile rubber, e.g. KCL 730 Camatril® Velours (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent.
Skin that comes into contact with the product should be treated with protective cream. After such contact, the product concerned should under no circumstances be used.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Body Protection Preventive skin protection
Long sleeved clothing
Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All

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parts of the body should be washed after contact.

- c) Respiratory protection For brief exposure or low level concentrations use a respiratory filter; for more intense or longer exposure use a self-contained respiratory protective device.
Respiratory filter for brief exposure:
Combination filter A-P2
Respiratory protection complying with EN 14387.

Environmental exposure controls

- General advice The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	various
Odour	characteristic
Odour Threshold	No data available
pH	not determined
Melting point/freezing point	No data available
Initial boiling point and boiling range	108 °C
Flash point	32,2 °C
Evaporation rate	not determined
Flammability (solid, gas)	not applicable
Upper explosion limit / Upper flammability limit	10,8 %(V)
Lower explosion limit / Lower flammability limit	1,1 %(V)
Vapour pressure	5 hPa (20 °C)

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Vapour density	not determined
Density	ca. 1,194 g/cm ³
Solubility(ies) Water solubility	insoluble
Partition coefficient: n- octanol/water	not determined
Auto-ignition temperature	315 °C
Decomposition temperature	No data available
Viscosity Viscosity, dynamic	No data available
Viscosity, kinematic	ca. 234,5 mm ² /s (40 °C)
Explosive properties	Not explosive In use may form flammable/explosive vapour-air mixture.
Oxidizing properties	Not applicable

9.2 Other information

Self-ignition	not auto-flammable
Flow time	> 90 s at 20 °C Cross section: 4 mm Method: ISO 2431

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	No dangerous reaction known under conditions of normal use. Vapours may form explosive mixture with air.
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10.4 Conditions to avoid

Conditions to avoid	Direct sources of heat. Strong sunlight for prolonged periods.
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10.5 Incompatible materials

Materials to avoid	Strong acids and strong bases Strong oxidizing agents
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10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if stored and applied as directed.
Decomposition temperature	No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity	Based on available data, the classification criteria are not met.
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Acute inhalation toxicity	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
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Acute dermal toxicity	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
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Components:

|| xylene (mixture of isomers):

Acute inhalation toxicity	LC50 (Rat): 11 mg/l Exposure time: 4 h Test atmosphere: vapour
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Acute dermal toxicity	Harmful in contact with skin.
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Skin corrosion/irritation

Product:

Causes skin irritation.

Components:

|| xylene (mixture of isomers):

Causes skin irritation.

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|| 2-methylpropan-1-ol:

Species Rabbit
Method OECD Test Guideline 404
Causes skin irritation.

|| toluene:

Causes skin irritation.

Serious eye damage/eye irritation**Product:**

Causes serious eye damage.

Components:**|| xylene (mixture of isomers):**

Causes serious eye irritation.

|| 2-methylpropan-1-ol:

Species Rabbit
Method OECD Test Guideline 405
Causes serious eye damage.

Respiratory or skin sensitisation**Product:**

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

Germ cell mutagenicity**Product:**

Genotoxicity in vitro

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

Carcinogenicity**Product:**

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

Reproductive toxicity**Product:**

Effects on fertility

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

Developmental Toxicity

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

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Components:**|| toluene:**

Developmental Toxicity Suspected of damaging the unborn child.

STOT - single exposure**Product:**

Exposure routes Inhalation
Assessment May cause respiratory irritation.

Components:**|| xylene (mixture of isomers):**

Exposure routes Inhalation
Assessment May cause respiratory irritation.

|| 2-methylpropan-1-ol:

Exposure routes Inhalation
Assessment May cause respiratory irritation., May cause drowsiness or dizziness.

|| toluene:

Exposure routes inhalation (vapour)
Assessment May cause drowsiness or dizziness.

STOT - repeated exposure**Product:**

Assessment May cause damage to organs through prolonged or repeated exposure.

Components:**|| xylene (mixture of isomers):**

Assessment May cause damage to organs through prolonged or repeated exposure.

|| toluene:

Exposure routes Inhalation
Assessment May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity**Product:**

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

Components:**|| xylene (mixture of isomers):**

May be fatal if swallowed and enters airways.

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|| toluene:

May be fatal if swallowed and enters airways.

Experience with human exposure**Product:**

General Information

Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects.
Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Long-term or repeated contact with the product leads to degreasing of the skin and can cause nonallergenic contact skin damage (contact dermatitis) and / or the resorption of substances.

Solvent sprays can cause irritation and reversible damage to the eye.

Further information**Product:**

The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity****Product:**

Toxicity to fish

No data available

Components:**zinc oxide :**

Toxicity to fish

LC50 (Pimephales promelas (fathead minnow)): 0,5 mg/l
Exposure time: 96 h
Test Type: static test

M-Factor (Short-term
(acute) aquatic hazard)

1

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Toxicity to fish (Chronic toxicity) NOEC: 0,08 mg/l
Exposure time: 21 d
Species: Oncorhynchus mykiss (rainbow trout)

M-Factor (Long-term (chronic) aquatic hazard) 1

12.2 Persistence and degradability

Product:

Biodegradability No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation No data available

Components:

xylene (mixture of isomers) :

Partition coefficient: n-octanol/water log Pow: > 3

2-methylpropan-1-ol :

Partition coefficient: n-octanol/water log Pow: 0,79 - 1 (25 °C)

zinc oxide :

Bioaccumulation Bioaccumulation is unlikely.

2-methoxy-1-methylethyl acetate :

Partition coefficient: n-octanol/water log Pow: 0,43 (20 °C)

12.4 Mobility in soil

Product:

Mobility No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative

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(vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological
information

Do not allow product to enter into ground water, bodies
of water or sewage systems.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	The user is responsible for proper coding and marking of any waste. When used as recommended, the waste code can be selected according to the code of the European Waste Catalogue (EWC), category 17.09 "Other Construction and Demolition Waste" Partial and residual quantities can be reused. Fluid remains constitute hazardous waste and should not be poured into the sewage system. They should be taken to a local waste disposal site.
Contaminated packaging	Empty packaging should be recycled through disposal systems.
Waste key for the unused product	08 01 11* Paint and varnish waste containing organic solvents or other dangerous substances (*) hazardous waste in terms of the European directive 91/689/EEC

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR	1263
IMDG	1263
IATA	1263

14.2 UN proper shipping name

ADR	PAINT
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IMDG PAINT

IATA Paint

14.3 Transport hazard class(es)

ADR 3

IMDG 3

IATA 3

14.4 Packing group

ADR

Packing group III

Classification Code F1

Hazard Identification
Number 30

Labels 3

Tunnel restriction code (D/E)

IMDG

Packaging group III

Labels 3

EmS number F-E, S-E

IATA

Packaging group III

Labels 3

14.5 Environmental hazards

ADR

Environmentally hazardous no

IMDG

Marine pollutant no

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14.6 Special precautions for user

Remarks This information is not available.

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

Remarks Not applicable

Additional advice

ADR ADR: Packages < 450l: No dangerous goods (ADR 2.2.3.1.5)
IMDG IMDG: Packages < 30l: No dangerous goods (IMDG 2.3.2.5).

SECTION 15: REGULATORY INFORMATION

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

VOC
Directive 2010/75/EU 56,8 %
677 g/l

VOC
Directive 2004/42/EC

does not fall under Directive 2004/42/EC

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals Not applicable

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Other regulations	Comply with the statutory regulations on health and safety at work. Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
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15.2 Chemical safety assessment

This information is not available.

SECTION 16: OTHER INFORMATION

Changes from the previous version are indicated by markings in the left-hand margin.

The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H361d	: Suspected of damaging the unborn child.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids

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Department issuing
MSDS
REG_EU / EN

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