

Safety data sheet
as per regulation 1907/2006/EC (REACH) as amended and
supplemented

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

1.1 Product identifier

- Rt qf weveqfg TV84
- Vtcfg pco g< **HARDENER FOR POLYESTER**
- 3040Tgqxcpxlf gpxvllgfwgu qhj g uwduepeg qt o kwmg cpf wgu cf xlgf ci clpw
Painting product for coating and / or decoration of manufactured articles.
- Crrnecvqpg qhj g uwduepeg l y j g o kwmg For professional use

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

IVM Chemicals srl Viale della Stazione 3 -27020 Parona (PV) Italy tel +39 038425441

1.3.2 Importer

Name: AKZOLUX AUSTRALIA T/as: SUPERIOR TIMBER COATINGS

Address: 13/257 COLCHESTER ROAD KILSYTH, VICTORIA, AUSTRALIA Email:tom@stcoatings.com.au

· Information department:

Environmental Health and safety office hseoffice@ivmchemicals.com

Emergency telephone number:

From 8.30am to 3.30pm (AEST) +61 03 9761 6899 Out of the above mentioned hours, Saturdays and Sundays and during periods of closure for holidays please call: +61410 635 016

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

· EncuHecvqpg ceeqf lpi vj Tgi wv vqpg *GE+Pq 3494H22:



GHS02 flame

Org. Perox. D H242 Heating may cause a fire.



GHS08 health hazard

Muta. 2 H341 Suspected of causing genetic defects.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

· Ncdgnlpi ceeqf lpi vj Tgi wv vqpg *GE+Pq 3494H22:

The product is classified and labelled according to the CLP regulation.

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· J c/ctf rkwqitco u



ÖPÜEG ÖPÜÉ ÖPÜÉ ÖPÜÉ

· Uí pcny qtf Danger

· J c/ctf/fvgto klpí eqo rppgwqhwdgnkpi <
 2-Butanone, peroxide
 tert-butyl hydroperoxide
 4-hydroxy-4-methylpentan-2-one

· J c/ctf ucvgogpw

H242 Heating may cause a fire.
 H302+H332 Harmful if swallowed or if inhaled.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H341 Suspected of causing genetic defects.
 H335 May cause respiratory irritation.
 H412 Harmful to aquatic life with long lasting effects.

· Rtgewkqctf ucvgogpw

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P234 Keep only in original packaging.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P370+P378 In the event of a fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

2.3 Other hazards

- TgwnuqhRDV cpf xRxD cuquogpv
- RDV<Not applicable.
- xRxD<Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

· Fguetkrwqp < Mixture: consisting of the following components.

· Fcpi gtqwueqo rppgwkw

| | | |
|---|--|-----------|
| CAS: 131-11-3 EINECS: 205-011-6 Reg.nr.: 01-2119437229-36-XXXX | dimethyl phthalate substance with a Community workplace exposure limit | 50-74.9% |
| CAS: 1338-23-4 EINECS: 215-661-2 Reg.nr.: 01-2119514691-43-XXXX | 2-Butanone, peroxide Org. Perox. D, H242 Acute Tox. 3, H331 Skin Corr. 1B, H314 Acute Tox. 4, H302; Acute Tox. 4, H312 | 25-29.9% |
| CAS: 123-42-2 EINECS: 204-626-7 Reg.nr.: 01-2119473975-21-XXXX | 4-hydroxy-4-methylpentan-2-one Repr. 2, H361 Eye Irrit. 2, H319; STOT SE 3, H335 | 10-12.49% |

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| | | |
|---|---|-----------|
| CAS: 75-91-2 EINECS: 200-915-7 Reg.nr.: 01-2119446670-40-XXXX | tert-butyl hydroperoxide Flam. Liq. 3, H226 Acute Tox. 3, H311; Acute Tox. 2, H330 Muta. 2, H341 Acute Tox. 4, H302 | 10-12.49% |
|---|---|-----------|

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
personal protective equipment for first aid responders is recommended. (please see section 8)
- Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- Remove contaminated clothing.
Immediately wash with water and soap, or a recognized skin cleanser, and rinse thoroughly.
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- Do not induce vomiting; call for medical help immediately.
Call for a doctor immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by substances, see chap. 11th
 No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.
 No further relevant information available.

5.3 Advice for firefighters

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

Hardhat with visor, fireproof clothing, suitable gloves and if necessary mouth respiratory protective device.



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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
• *Ɔpłqto cłqpp cdqwwłłg / cpf gźrłqłqpp rtqgęwłqpp* <Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
• *Ułqtci g* <
• *Tgs włłgo gpvuıy dg o gvd{ włqtgtqgo ucpf tgegrwengı* <
Observe the label precautions, the expiration date for the use, if indicated, is from delivery date.
In cases there is no reported deadline, it means that the product must be used within 8 months.
• *Ɔpłqto cłqpp cdqwwıwłqtci g łp qpg eqo o qp włqtci g łcckłłł* <
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
• *Hwtıj gt łpłqto cłqpp cdqwwıwłqtci g eqpfłłqppı* <Keep container tightly sealed.
• *Tgeqo o gpfgf włqtci g vgo rgtcwłg <25 ° C*
- **7.3 Specific end use(s)**
Those typical of the product and the instructions in the data sheet if required.

SECTION 8: Exposure controls/personal protection

• *Cffłłqppncłpłqto cłqpp cdqwwf gıki p qhyvej płcncłckłłłgu* <No further data; see item 7.

• **8.1 Control parameters**

| | |
|--|--|
| • <i>Ɔpi tgf łgıuy łj nł kxcıwgu ıj cvtgs włłg o qplłqtłpi cvıj g y qtıııwęg</i> < | |
| 131-11-3 dimethyl phthalate | |
| WEL | Short-term value: 10 mg/m Long-term value: 5 mg/m |
| 1338-23-4 2-Butanone, peroxide | |
| WEL | Short-term value: 1.5 mg/m , 0.2 ppm |

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| | | |
|--|--|--------------------------|
| · FPGNu | | |
| 123-42-2 4-hydroxy-4-methylpentan-2-one | | |
| Inhalative | DNEL acuto/agudo/ostre/aigu/acute/akut | 240 mg/mc (Workers) |
| | DNEL | 66.4 mg/mc (Workers) |
| Irritation of skin | DNEL | 9.4 mg/kg bw/d (Workers) |

· Cffkklqpnkplqto cvkqp < The lists valid during the making were used as basis.

8.2 Exposure controls

· Rgtuqpcnrtqvgevkxg gs wlr o gpv<

- I gpgtcnrtqvgevkxg cpf j {i kpkle o gcwmt gu<
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.

· Tgur kcvqt { rtqvgevkqp <

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Rtqvgevkqp qhj cpf u<



Protective gloves

The glove material has to be impermeable and resistant to the product and in accordance with EN 374 and Directive 89/686/EEC.

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· O cvgtkcnghi npxgu

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Rpggvcvkqp wo g qhi npxg o cvgtken

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Gfg rtqvgevkqp <

Safety glasses



Glasses (EN166) or other protective equipment

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· I gpgtcnklqto cvkqp

· Crrgctpep<

· Hqto <

· Eqquwt <

· Qf qwt <

Fluid

According to product specification

Characteristic

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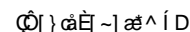
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| | |
|--|---|
| · <i>Qf qwt yj t gij qif</i> < | Not determined. |
| · <i>rJ /xcmwg</i> < | Not determined. |
| · <i>Ej cpi g kp eqpfkqpp</i> · <i>O gnkpi r qkp vlltgg/kpi r qkp</i> < · <i>Kpkkndqkkipi r qkp vcpf dqkkipi t cpi g</i> < | Undetermined. 35 °C |
| · <i>Hrcij r qkp</i> < | 100 °C |
| · <i>Hrc o cdlklf *iqklf. i cu</i> < | Not applicable. |
| · <i>K plkqpp vgo rgtcwtg</i> < | 555 °C |
| · <i>Fgeqo r qkklqpp vgo rgtcwtg</i> < | Not determined. |
| · <i>Cwq/k plkqpp vgo rgtcwtg</i> < · <i>UCFV</i> | Product is not selfigniting. 60°C . See chapter 10 |
| · <i>Gzriqkxg rtqr gtvku</i> < | Product does not present an explosion hazard. |
| · <i>Gzriqkqpp ilo kv</i> < · <i>Ngy gt</i> < · <i>Wrrgt</i> < | 1.4 Vol % 8.1 Vol % |
| · <i>Xcrqwt rtguamtg cv42 °C:</i> | 1.1 hPa |
| · <i>Density at 20 °C:</i> · <i>Relative density</i> · <i>Vapour density</i> · <i>Evaporation rate</i> | 1.1 g/cm Not determined. Not determined. Not determined. |
| · <i>Solubility in / Miscibility with</i> · <i>water:</i> | Not miscible or difficult to mix. |
| · <i>Partition coefficient: n-octanol/water:</i> | Not determined. |
| · <i>Viscosity:</i> · <i>Dynamic:</i> · <i>Kinematic at 20 °C:</i> · <i>Oxidising properties :</i> | Not determined. 40 s (ISO 4 mm) N.A. |
| · <i>Solvent content:</i> · <i>VOC and Total VOC</i> (organic solvents + reactive solvents if any) · <i>VOC (EC)</i> | 10.00 % 109.7 g/l |
| · <i>Solids content:</i> · 9.2 Other information | 80.0 % (EU Regulations) No further relevant information available. |

SECTION 10: Stability and reactivity

· **10.1 Reactivity** Typical of the product as indicated in the data sheet

· **10.2 Chemical stability**

SADT - (Self accelerating decomposition temperature) is the lowest temperature at which it will trigger the self-accelerating decomposition of a substance contained in a typical packaging used to transport the product.

A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at the temperature indicated here or superior to it: 60 ° C. The contact with incompatible substances can cause decomposition at the SADT temperature or at temperatures lower than 60 ° C to it.

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- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Vapours may form explosive mixtures with air
- **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 decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- **Acute toxicity**
Harmful if swallowed or if inhaled.

· **LD/LC50 values relevant for classification:**

1338-23-4 2-Butanone, peroxide

| | | |
|--------|------|---------------------|
| Oral | LD50 | 1,017 mg/kg (mouse) |
| Dermal | LD50 | 4,000 mg/kg (mouse) |

75-91-2 tert-butyl hydroperoxide

| | | |
|------------|----------|--------------------|
| Oral | LD50 | 810 mg/kg (mouse) |
| Dermal | LD50 | 790 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 1.85 mg/l (mouse) |

123-42-2 4-hydroxy-4-methylpentan-2-one

| | | |
|--------|------|---------------------|
| Oral | LD50 | 3,002 mg/kg (mouse) |
| Dermal | LD50 | 13,630 mg/kg (rab) |

- **Primary irritant effect:**
 - **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
 - **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **Germ cell mutagenicity**
Suspected of causing genetic defects.
 - **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** Harmful to aquatic life with long lasting effects.

· **Aquatic toxicity:**

123-42-2 4-hydroxy-4-methylpentan-2-one

| | |
|------------|-----------------------------|
| EC50 | 1,001 mg/l (algae) (72 h) |
| | 1,000 mg/l (daphnia) (48 h) |
| LC50 (96h) | 101 mg/l (Fish) |

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- **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.
 - **Ecotoxicological effects:**
 - **Remark:** Harmful to fish
 - **Additional ecological information:**
 - **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Harmful to aquatic organisms
- **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**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

The code number of the product as is 080111
 - **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|--|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | UN3105 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA | UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (tert-butyl hydroperoxide, 2-Butanone, peroxide) ORGANIC PEROXIDE TYPE D, LIQUID |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR | <div style="display: flex; align-items: center; justify-content: center;">   </div> <ul style="list-style-type: none"> · Class |

5.2 Organic peroxides.

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| | |
|---|---|
| · Label | 5.2 +8 |
| · IMDG | |
|  | |
| · Class | 5.2 Organic peroxides. |
| · Label | 5.2/8 |
| · IATA | |
|  | |
| · Class | 5.2 Organic peroxides. |
| · Label | 5.2 (8) |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Not classified |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Warning: Organic peroxides. |
| · Danger code (Kemler): | - |
| · EMS Number: | F-J,S-R |
| · Segregation groups | Peroxides |
| · Stowage Category | D |
| · Stowage Code | SW1 Protected from sources of heat. |
| · Segregation Code | SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · ADR | |
| · Limited quantities (LQ) | 125 ml |
| · Excepted quantities (EQ) | Code: E0 Not permitted as Excepted Quantity |
| · Transport category | 2 |
| · Tunnel restriction code | D |
| · IMDG | |
| · Limited quantities (LQ) | 125 ml |
| · Excepted quantities (EQ) | Code: E0 Not permitted as Excepted Quantity |
| · UN "Model Regulation": | UN 3105 ORGANIC PEROXIDE TYPE D, LIQUID (TERT-BUTYL HYDROPEROXIDE, 2-BUTANONE, PEROXIDE), 5.2 (8), II |

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SECTION 15: Regulatory information

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

Directive n. : 80/1107/CEE, n. 82/605/CEE, n. 83/477/CEE, n. 86/188/CEE e n. 88/642/CEE, 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2002/44,2003/10/CE, 2003/18/CE , 2004/40/CE,2006/25

DIRECTIVE 2012/18/EU

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES - Lower-tier requirements : 50 t

- Upper-tier

requirements : 200 t

· **Various regulations** For uses not regulated by D. 2004/42/EC-For professional use only

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

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

· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **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**

H226 Flammable liquid and vapour.

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H361 Suspected of damaging fertility or the unborn child.

· **Department issuing SDS:** IVM Chemicals Srl

· **Contact:** Claudia Zanella

· **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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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AUSTRALIAN DISTRIBUTOR - Superior Timber Coatings

Safety data sheet
 as per regulation 1907/2006/EC (REACH) as amended and
 supplemented

Printing date 05.02.2020

Version number 168

Revision: 20.11.2019

Product code TV84**Trade name: HARDENER FOR POLYESTER**

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vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids . Category 3

Org. Perox. D: Organic peroxides . Type C/D

Acute Tox. 4: Acute toxicity . Category 4

Acute Tox. 2: Acute toxicity . Category 2

Acute Tox. 3: Acute toxicity . Category 3

Skin Corr. 1B: Skin corrosion/irritation . Category 1B

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

Repr. 2: Reproductive toxicity . Category 2

STOT SE 3: Specific target organ toxicity (single exposure) . Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard . Category 3

- **Sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE
 COUNCIL and following amendments

Agency ECHA web site

INRS Fiche Toxicologique

- * **Data compared to the previous version altered.**

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