

Safety Data Sheet

According to REACH Regulation No. 1907/2006/EC as amended by Regulation 2015/830/EC

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

1.1. Product identifier

Trade name: R-HAC-V

UFI code: 3300-FOM1-N00T-G775

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

Chemical anchoring system for building industry

1.3. Details of the supplier of the safety data sheet

Company name and address:

Rawlplug S.A.
ul. Kwidzyńska 6
51-416 Wrocław
Poland

Telephone number: +48 (0) 71 32 60 100, +48 (0) 71 37 26 111

E-Mail: infochem@rawlplug.com

Emergency telephone number: +48 661 970 365

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Commission Regulation (EC) No. 1272/2008:

Org. Perox. D	H242	Heating may cause a fire.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.
STOT SE 3	H335	May cause respiratory irritation.

2.2. Elementy oznakowania

GHS pictograms:



Signal word:

Danger

Hazard statements:

H242	Heating may cause a fire.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

H335 May cause respiratory irritation.

Precautionary statements::

Prevention:

P280 Wear protective gloves, protective clothing, eye protection, face protection.
 P273 Avoid release to the environment.
 P210 Keep away from heat, sparks, open flames, hot surfaces. — No smoking.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P391 Collect spillage.

Storage: -

Usowanie: P501 Dispose of contents / container in accordance with local/regional/national / international regulations.

Dangerous substances:

Methacrylic acid, monoester with propane-1,2-diol
 Ethylene dimethacrylate
 Dibenzoyl peroxide
 Ethylene glycol dibenzoate

2.3. Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Section 3: Composition/information on ingredients

3.1. Substances Not applicable

3.2. Muxtures

Product identifiers	Ingredient name	Content (% wt.)	Classification (EC) 1272/2008 [CLP]
CAS: 27813-02-1 WE: 248-666-3 Reg. nr.: 01-2119490226-37	Methacrylic acid, monoester with propane-1,2-diol	< 22	Eye Irrit.2, H319 Skin Sens. 1, H317
CAS: 97-90-5 WE: 202-617-2 Reg. nr.: 01-2119965172-38	Ethylene dimethacrylate	<22	Skin Sens. 1, H317
CAS: 94-36-0 WE: 202-327-6 Reg. nr.: 01-2119511472-50	Dibenzoyl peroxide	< 7,3	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
CAS: 94-49-5 WE: 202-338-6 Reg. nr.: 01-2120759933-41	Ethylene glycol dibenzoate	<7,3	Aquatic Chronic 2, H411
CAS: 3077-12-1	2,2'-(4-	<1,29	Acute Tox. 4, H302

WE: 221-359-1 Reg. nr.: 01- 2120791684-40-XXXX	methylphenyl]imino] bisethanol		Skin Irrit. 2, H315 Eye Dam. 1, H318
CAS: 98-29-3 WE: 202-653-9 Reg. nr.: 01- 2119548368-28-XXXX	4-tert- butylpyrocatechol	<0,13	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The full terms are listed in section 16.

Section 4: First aid measures

4.1. Description of first aid measures

General notes: Remove/Take off immediately all contaminated clothing.

Following inhalation: Move the exposed individual to the fresh air and keep at rest in a position comfortable for breathing. If not breathing, breathing is irregular or respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Contact toxicology center. May be dangerous for the person giving mouth-to-mouth ventilation. Ensure open ventilation. Loosen tight clothing such as a collar, tie or belt. Inhalation of decomposition products formed during a fire, symptoms may be delayed. The exposed person may require medical supervision for 48 hours.

Following skin contact: Wash with plenty of soap and water. Remove contaminated clothing and shoes. In case irritation or any complaints occur, get medical attention and avoid further exposure.

Following eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present. Continue to rinse for at least 10 minutes. Get medical attention.

Following ingestion: Wash out mouth with water. Move the exposed individual to the fresh air and keep at rest in position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low, so that the vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Loosen tight clothing (e.g. tie, belt). Get medical attention.

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

Product can cause irritation to eyes, skin and respiratory system. It can also lead to skin sensitization. After exposure, symptoms can be delayed. Contact with eyes can result in eye erythema and excessive lacrimation. Exposure of inhalation routes can cause coughing. Prolonged exposure of skin can cause erythema. Lack of data on symptoms occurring after ingestion.

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

In case of inhalation of decomposition products, symptoms may be delayed. Exposed individual may need to be kept under medical surveillance for 48 hours.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing

media: Use dry chemicals, water spray, alcohol resistant foam or CO2.

Unsuitable

extinguishing media: No data.

5.2. Special hazards arising from the substance or mixture

In case of exposition on an open flame, a pressure rise and a packaging may explode. Moreover, hazardous decomposition products can arise: e.g. carbon oxides, unidentified hydrocarbons. A steady stream of water is not recommended because it can scatter and spread fire. Do not allow fire to enter sewage system or watercourses.

5.3. Advice for firefighters

Use full protective clothing compliant with EN 469 standard. Wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode. Product containers exposed to heat cool with water.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

No action involving any health risk shall be taken through contact with product. Avoid contact with product without personal protective equipment, in case of contact with product when ventilation is insufficient. Avoid breathing vapors. Ensure adequate ventilation, wear a suitable mask. If a leak occurs, turn the leaking container so that the leak is at the top.

For emergency responders:

Disposal of large quantities of the product should be carried out with personal protective equipment as described in section 8.

6.2. Środki ostrożności w zakresie ochrony środowiska

Avoid material entering the soil, sewage system, ground water and surface water. In the event of environmental pollution, inform the relevant authorities.

6.3. Methods and material for containment and cleaning up

Secure sewage outlets. Collect the product mechanically (e.g. using a shovel) with soil that has come into contact with the product and place in an appropriate container for hazardous waste. Collect any liquid components using solid absorbents, e.g. earth, sand, diatomaceous earth, and dispose of as hazardous waste. The resulting hazardous waste should be handled in accordance with the instructions in section 13. Waste must be disposed of in a licensed waste disposal company.

6.4. Reference to other sections

See section 8 for information on appropriate personal protective equipment.

See section 13 for additional waste treatment information.

Section 7: Handling and storage Section

7.1. Precautions for safe handling

Put on an appropriate personal protective equipment (see section 8). Persons with a history of skin sensitization problems should avoid contact with product. Do not allow product to contact eyes or skin. Avoid breathing vapours released during curing process. Use only in places with sufficient ventilation. Wear appropriate respirator when ventilation is inadequate. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Follow the manufacturer's instructions for use of product. Keep product in the original container. Do not use product after the expiration date.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container, keep tightly closed when not in use. Protect from direct sunlight and other heat sources in dry, well-ventilated area, away from incompatible materials, food and drink. Store at 5– 25 °C. To ensure product stability avoid temperature fluctuation during storage (overheating and undercooling). Keep away from reducing agents (acids, hydroxides, heavy metals) and combustible materials. It is recommended to use electrical equipment from the T3 temperature group.

7.3. Specific end use(s)

See Section 1.

Section 8: Exposure controls/personal protection

8.1. Control parameters

	NDS	NDSch	NDSP
Dibenzoyl peroxide	5 mg/m ³	10 mg/m ³	-

The Regulation of the Minister of Labour and Social Policy of June 12th, 2018 on maximal authorized concentrations and intensity of factors harmful to health in work environment (Dz.U. 2018 poz. 1286).

The Regulation of the Minister of Health of 2 February 2011. On tests and measurements of health hazard factors in the work environment (Dz. U. No. 33, item 166 2011).

The Regulation of the Minister of Health of 30 December 2004. On occupational health and safety related to occurrence of chemical agents at work (Dz. U. No. 33, pos. 86, 2005).

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2000/39/EC of 8 June 2000 Commission Directive 2000/39/EC of June establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work (Sixth individual Directive within the meaning of Article 16(1) of Council Directive 89/391/EEC).

DN(M)EL

Ingredient name	Route of exposure	Value	Group	Effect
Dibenzoyl peroxide	Inhalation	10,6 mg/m ³	Workers	Systemic effects, long-term
	Dermal	3 mg/kd waight body/day	Workers	Systemic effects, long-term
Methacrylic acid, monoester with propane-1,2-diol	Inhalation	14,7 mg/m ³	Workers	Systemic effects, long-term
		8,8 mg/m ³	Consumers	Systemic effects, long-term
	Dermal	4,2 mg/kg	Workers	Systemic effects, long-term
		2,5 mg/kg	Consumers	Systemic effects, long-term
Oral	2,5 mg/kg	Consumers	Systemic effects, long-term	
	2,5 mg/kg	Consumers	Systemic effects, long-term	
Ethylene glycol dibenzoate	Inhalation	10,6 mg/m ³	Workers	Systemic effects, long-term
	Dermal	3 mg/kg	Workers	Systemic effects, long-term
Ethylene dimethacrylate	Inhalation	2,45 mg/m ³	Workers	Systemic effects, long-term
		1,47 mg/m ³	Consumers	Systemic effects, long-term
	Dermal	1,3 mg/kg	Workers	Systemic effects, long-term
		100 mg/kg	Consumers	Systemic effects, long-term
Oral	100 mg/kg	Consumers	Systemic effects, long-term	
	100 mg/kg	Consumers	Systemic effects, long-term	

PNEC

Mixture component	Environmental protection target	Value
Dibenzoyl peroxide	0,000602 mg/l	Fresh water
	0,00006 mg/l	Marine water

	0,338 mg/l 0,001 mg/kg 0,35 mg/l 0,0758 mg/l	Fresh water sediment Marine water sediment Sewage treatment plant Soil
Methacrylic acid, monoester with propane-1,2-diol	0,904 mg/l 0,904 mg/l 6,28 mg/kg 6,28 mg/kg 10 mg/l 0,727 mg/kg	Fresh water Marine water Fresh water sediment Marine water sediment Sewage treatment plant Soil
Ethylene dimethacrylate	0,139 mg/l 0,0139 mg/l 0,15 mg/l 1,6 mg/kg 0,16 mg/kg 57 mg/kg 0,239 mg/kg	Fresh water Marine water Intermittent releases Fresh water sediment Marine water sediment Sewage treatment plant Soil
Ethylene glycol dibenzoate	0,0073mg/l 0,00073 mg/l 2,23 mg/kg 0,223 mg/kg 128 mg/l 0.44 mg/kg	Fresh water Marine water Fresh water sediment Marine water sediment Sewage treatment plant Soil

8.2. Exposure controls

Appropriate technical protection: Ensure sufficient ventilation in working place. In case of insufficient ventilation use appropriate engineering controls (e.g. local fume hood) which will keep exposure level below recommended threshold, or use appropriate breathing apparatus.

Individual protective measures:

General recommendation: Obey hygiene rules: do not eat, drink, or smoke at workplace. Wash your hands with soap and water after you finish working with product. Avoid eye and skin contamination. Ensure effective ventilation at the workplace.

Eye/face protection: Use safety glasses with side shields.

Hand protection: Use chemical resistant gloves standard when working with the product. It is advised to use butyl or nitrile rubber gloves. Breakthrough time 4-8 hours.

Skin protection: Use protective clothes.

Respiratory protection: At concentrations causing irritation use mask with filter type: A – against organic gases and vapors. P2 filter mask is also recommended (EN 143).

Remarks: Advice on personal protection is applied for high exposure levels. Appropriate personal protective equipment should be picked according to the risk comes from the product usage. Personal protective equipment must meet requirements of directive 89/686/CE.

Environmental exposure controls:

Scrubbers, filters or modification of process equipment may be needed to reduce emissions to an acceptable level.

Environmental monitoring		Environmental monitoring
Reference values of the substance in air for the period	One hour	100 µg/m ³
	One year	100 µg/m ³

Legal basis: Regulation of the Minister of the Environment of January 26, 2010 on the reference value for some

substances in the air (Journal of Laws 2010 No. 16 item 87).

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Capsule: component A: liquid resin, component B - powder
Colour	Component A: straw, component B: white or red
Smell	characteristic, ester-like
Odour threshold	Not determined
pH:	Component A: 4-5 Component B: not determined
Melting point / freezing point	Not applicable
Initial boiling point and boiling range	Not determined
Flash point	Component A: 108°C (PN-EN ISO 3679:2007)
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Relative density	Component A: 1,05 ± 0,1 g/cm ³ (23°C) (PN-EN 542:2005)
Solubility	Component B: w 20° insoluble in water
Partition coefficient n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature:	Component A: no date Component B: SADT: 55°C
Dynamic viscosity (23°C; 100 [s ⁻¹])	Component A: 0,5 ± 0,1 [Pa·s] (PN-EN ISO 3219:2000) Component B: not applicable
Explosive properties	Not determined
Oxidizing properties	Component A: not applicable Component B: has oxidizing properties

9.2. Other information Component B: active oxygen content = 3,3 %
Organic peroxides: 50 %

Section 10: Stability and reactivity

10.1. Reactivity

No specific data available.

10.2. Chemical stability

Product is stable under normal storage conditions (temp. 5 - 25°C). In the case of visible changes in the consistency of the product, the presence of significant amounts of air in components it is recommended to cessation work with the product.

10.3. Possibility of hazardous reactions

Exothermic reaction during curing. Dust from component B may form an explosive mixture in air.

10.4. Conditions to avoid

To avoid thermal degradation of the product, do not allow overheating above the recommended storage temperature. Do not expose to sunlight. Overheating of component B above SADT (self-accelerating decomposition, see section 9.1) may cause spontaneous degradation of the substance in the packaging during transport. Protect component B from drying out.

10.5. Incompatible materials

Avoid contact with: acids, hydroxides, iron, copper, reducing agents and rust.

10.6. Hazardous decomposition products

Unidentified hydrocarbons, carbon oxides, benzene, benzoic acid.

Section 11: Toxicological information

11.1. Information on toxicological effects

<u>Acute toxicity</u>	The experimental information related to the toxicological properties of the product itself is not available.
<u>Irritation / Corrosivity</u>	Based on available data, product is irritating to eyes.
<u>Sensitisation</u>	Product causes skin sensitisation (based on available data for ingredients the product)
<u>Mutagenicity</u>	Based on available data, the classification criteria are not meet.
<u>Repeated dose toxicity</u>	Based on available data, the classification criteria are not meet.
<u>Carcinogenicity</u>	Based on available data for the ingredients in the mixture, classification criteria are not met for the product.
<u>Reproductive toxicity</u>	Based on available data for the ingredients in the mixture, the product may damage fertility or the unborn child.
<u>Single dose toxicity</u>	May cause respiratory irritation.
<u>Repeated dose toxicity</u>	Based on available data for the ingredients in the mixture, classification criteria are not met for the product.
<u>Aspiration hazard</u>	Based on available data for the ingredients in the mixture, classification criteria are not met for the product.

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation:	Vapors released during curing process may cause respiratory tract irritation, coughing, nausea and dizziness. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin exposure:	Irritation and redness. May cause sensitization by skin contact. Skin reaction may be delayed in time.
Eye exposure:	Pain, lacrimation, irritation and redness.
Ingestion:	No specific data.

Potential chronic health effects:

Ingredient name	Result	Species	Dose
Ethylene dimethacrylate	Pre-chronic NOAEL, orally	Rat	100 mg/kg/day
	Chronic NOAEL, skins	Mouse	25 mg/kg/day

Section 12: Ecological information

12.1. Toxicity

Ingredient name	Dose/time of exposure/method	Species	Results
Methacrylic acid, monoester with propane-1,2-diol	LC ₅₀ /48h / DIN 38412 EC ₅₀ /48h/ OECD 202 EC ₅₀ (growth rate)/72h / OECD 201	<i>Leuciscus idus melanotus</i> <i>Daphnia magna</i> <i>Pseudokirchnerella subcapitata</i>	493 mg/L >143 mg/l >97,2 mg/l
Ethylene dimethacrylate	LC ₅₀ / 96h / OECD 203 EC ₅₀ / 48h / OECD 202 EC ₅₀ (growth rate)/ 48h / OECD 201	<i>Danio rerio</i> <i>Daphnia magna</i> <i>Pseudokirchnerella subcapitata</i>	15,95 mg/l 44,9 mg/l 44,9 mg/l
Dibenzoyl peroxide	LC ₅₀ / 96h / OECD 203 EC ₅₀ / 48h / OECD 202 EC ₅₀ (growth rate) / 72h / OECD 201	<i>Oncorhynchus mykiss</i> <i>Daphnia magna</i> <i>Pseudokirchnerella subcapitata</i>	0,0602 mg/L 0,110 mg/L 0,0711 mg/L
Ethylene glycol dibenzoate	LC ₅₀ / 96h / OECD 203 EeC ₅₀ / 72h / OECD 201	<i>Danio rerio</i> <i>Pseudokirchnerella subcapitata</i>	>0,434 mg/l >0,87 mg/l

12.2. Persistence and degradability

Methacrylic acid, monoester with propane-1,2-diol	distribution 81% after 28 days. Readily biodegradable (OECD 301C)
Ethylene dimethacrylate	distribution 71.2% after 28 days. Readily biodegradable (OECD 301D) distribution 69% after 28 days. Readily biodegradable (OECD 301F)
Dibenzoyl peroxide	distribution 71% after 28 days. Readily biodegradable (OECD 301 D)
Ethylene glycol dibenzoate	distribution 81% after 28 days. Readily biodegradable (OECD 301D)

12.3. Bioaccumulative potential

Ethylene dimethacrylate	LogPow = 1,87
Methacrylic acid, monoester with propane-1,2-diol	LogPow = 0,97
Dibenzoyl peroxide	BCF = 66,6,

12.4. Mobility in soil

Dibenzoyl peroxide $\log K_{oc} = 3,8$ (OECD 121)

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects

No reports on other adverse effects

Section 13: Disposal considerations

13.1. . Waste treatment methods

Product: Minimum waste quantities. Must not be disposed together with household garbage. Do not allow product to reach sewage system, ground water and water course. Uncured product dispose of as a chemical waste in licensed facility, in accordance with local regulations of environmental protection and binding legislation on recycling. It is recommended to incinerate wastes arose during product usage in a proper incineration oven. Small quantities of both components may be reacted together, allowed to cure and dispose of as a solid waste.

Packaging: Used product packaging (cartridge) may be delivered to plastic waste recycling plant. Contaminated package must be disposed like wastes arose during product usage.

Hazardous waste codes (EWC): 08 04 09* – Waste adhesives and sealants containing organic solvents or other dangerous substances;
16 09 03* – Peroxides.

Law of December 14th, 2012 on waste (Journal of Laws No. 0, item 21, 2012 as amended);

Law of June 13th, 201 on packaging and packaging waste (Journal of Laws No. 0, item 888, 2013); Regulation of the Minister of Environment dated September 29th, 2014 on waste catalogue (Journal of Laws No. 0, item 1923, 2014).

Section 14: Transport information

	ADR/RID	IMDG	IATA
UN Number	UN3077	UN3077	UN3077
UN Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s (dibenzoyl peroxide mixture)	Environmentally hazardous substance, solid, n.o.s (dibenzoyl peroxide mixture)	Environmentally hazardous substance, solid, n.o.s (dibenzoyl peroxide mixture)
Transport Hazard class	9	9	9
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	dibenzoyl peroxide mixture	Not applicable.
Spacial provision	375	2.10.2.7. Paragraph	A197

<p style="text-align: center;">Contents</p>	<p>These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</p>	<p>Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provision of this Code relevant to marine pollutants provided the packagings meet the general provision of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of this Code relevant to any additional hazards continue to apply.</p>	<p>These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net weight per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of these Instructions provided the packagings meet the general provisions of 4;1.1.1, 4;1.1.3.1 and 4;1.1.5 of the ICAO-TI (IATA DGR: 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8).</p>
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Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1272/2008 of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending regulation (EC) No 1907/2006 (text with EEA relevance).

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (text with EEA relevance).

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste.

Commission Regulation (EC) No. 790/2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

Council Directive 89/686/EEC of 21 December 1989 on the approximation of the laws of the Member States relating to personal protective equipment (and its amendments).

Section 16: Other information

Full text of H-statements:

H242	Heating may cause a fire.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H360D	May damage the unborn child.
H335	May cause respiratory irritation.

Hazard classes:

Org. Perox. D	Heating may cause a fire.
Eye Irrit. 2	Causes serious eye irritation.
Skin Sens. 1	May cause an allergic skin reaction.
Aquatic Acute 1	Very toxic to aquatic life.
Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects.
Repr. 1B	May damage the unborn child.
STOT SE 3	May cause respiratory irritation.

Abbreviations and acronyms:

NDSCh	Maximum Permissible Instantaneous Concentration
DNEL	Derived no-effect level
PNEC	Predicted No Effect Concentration
PBT	Persistent, bioaccumulative and toxicity substances
ATE	Acute toxicity estimate
STOT RE, SE	Specific target organ toxicity – Repeated/single exposure
STOT	Specific target organ toxicity
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
P(N)EC	Predicted No Effect Concentration(s)
LD ₅₀	Median Lethal Dose
LC ₅₀	Lethal concentration, 50%
EU	European Union
EN	European Standard
CAS	Chemical Abstracts Service number

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

Classification according to Regulation (EC) No 1272/2008	Classification procedure
Org. Perox. D	Based on research results
Eye Irrit. 2	Calculation method
Skin Sens. 1	Calculation method
Aquatic Acute 1	Calculation method
Aquatic Chronic 1	Calculation method

Alterations compared to the previous version 1, 2, 3

Training advice: People using the product professionally, should be trained in handling the product, safety and hygiene. Drivers should be trained and obtain the appropriate certificate in accordance with the ADR requirements.

The information contained in the Safety Data Sheet is based on current state of knowledge and applies to product with its identified use. The information is intended to aid the user in controlling the handling risks and not to guarantee product quality. If conditions of product use are not under manufacturer control, responsibility for safe use falls to the user. Employer is obliged to inform all employees working with the product, about possible hazards and personal protection specified in Safety Data Sheet.