

Safety Data Sheet according to (EC) No 1907/2006

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sds no.: 153501 V003.0

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RVM Adhesive

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

1.1. Product identifier

RVM Adhesive

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

Intended use:

Anaerobic

1.3. Details of the supplier of the safety data sheet

Henkel Limited

2 Bishop Square Business Park AL109EY Herfordshire Hatfield

Great Britain

Phone: +44 1606 593933 +44 1606 863762 Fax-no.:

ua-productsafety.uk@uk.henkel.com

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (DPD):

Xi - Irritant

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

2.2. Label elements

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Label elements (DPD):

Xi - Irritant



Risk phrases:

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

Safety phrases:

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water and soap.

S37/39 Wear suitable gloves and eye/face protection.

Additional labeling:

For consumer use only: S2 Keep out of the reach of children

S46 If swallowed, seek medical advice immediately and show this container or label.

Contains:

Hydroxypropyl methacrylate,

Acrylic acid,

Methacrylic acid

2.3. Other hazards

Non corrosive to skin in accordance with the invitro test method, B40 skin corrosion - Human skin model assay, specified in Part B of Annex V to Directive 67/548/EEC.

SECTION 3: Composition/information on ingredients

General chemical description:

Acrylate adhesive

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Declaration of the ingredients according to CLP (EC) No 1272/2008:

EC Number REACH-Reg No.	content	Classification
248-666-3	>= 25-< 50 %	Skin sensitizer 1; Dermal H317
		Serious eye irritation 2 H319
201-177-9 01-2119452449-31	>= 2,5-< 5 %	Acute toxicity 4; Oral H302
		Skin corrosion 1A H314
		Flammable liquids 3 H226
		Acute toxicity 4; Dermal H312
		Acute hazards to the aquatic environment 1 H400
		Acute toxicity 4; Inhalation H332
219-785-8	< 10 %	Serious eye irritation 2 H319
		Skin irritation 2 H315
		Specific target organ toxicity - single exposure 3
201-204-4	>- 1 ₋ < 5 %	H335 Acute toxicity 4; Oral
201-204-4	>= 1-< 3 /0	H302 Skin corrosion 1A
		H314
		Acute toxicity 4; Dermal H312
201-254-7	< 1 %	Acute toxicity 4; Dermal H312
		Specific target organ toxicity - repeated exposure 2
		H373
		Acute toxicity 3; Inhalation H331
		Acute toxicity 4; Oral H302
		Organic peroxides E H242
		Chronic hazards to the aquatic environment 2 H411
		Skin corrosion 1B H314
212-782-2	>= 0,1-< 1 %	Serious eye irritation 2 H319
01-211/470107-29		Skin irritation 2 H315
		Skin sensitizer 1 H317
202-704-5	< 2,5 %	Flammable liquids 3
		H226 Aspiration hazard 1
		H304 Specific target organ toxicity - single
		exposure 3 H335
		Chronic hazards to the aquatic environment 2 H411
	201-177-9 01-2119452449-31 201-204-4 201-204-4 201-254-7	REACH-Reg No. 248-666-3 >= 25- < 50 % 201-177-9 01-2119452449-31 >= 2,5- < 5 % 219-785-8 < 10 % 201-204-4 >= 1- < 5 % 201-254-7 < 1 %

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

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Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
Hydroxypropyl methacrylate	248-666-3	>= 25 - < 50 %	Xi - Irritant; R36, R43
27813-02-1			
Acrylic acid	201-177-9	>= 2,5 -< 5 %	Xn - Harmful; R20/21/22
79-10-7	01-2119452449-31		R10
			C - Corrosive; R35
			N - Dangerous for the environment; R50
3-trimethoxysilylpropyl methacrylate 2530-85-0	219-785-8	< 10 %	Xi - Irritant; R36/37/38
Methacrylic acid	201-204-4	>= 1 -< 5 %	C - Corrosive; R35
79-41-4			Xn - Harmful; R21/22
Cumene hydroperoxide	201-254-7	< 1 %	T - Toxic; R23
80-15-9			Xn - Harmful; R21/22, R48/20/22
			O - Oxidizing; R7
			C - Corrosive; R34
			N - Dangerous for the environment; R51/53
2-Hydroxyethyl methacrylate	212-782-2	>= 0,1 -< 1 %	Xi - Irritant; R36/38
868-77-9	01-2119490169-29		R43
Cumene	202-704-5	< 2,5 %	R10
98-82-8			Xn - Harmful; R65
			Xi - Irritant; R37
			N - Dangerous for the environment; R51/53

For full text of the R-Phrases indicated by codes see section 16 'Other Information'. Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Seek medical advice.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.

Seek medical advice.

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

SKIN: Rash, Urticaria.

SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media Suitable extinguishing media:

Carbon dioxide, foam, powder

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Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

None

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid skin and eye contact.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

Dispose of contaminated material as waste according to Chapter 13.

6.4. Reference to other sections

See advice in chapter 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use only in well-ventilated areas.

Avoid skin and eye contact.

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

Hygiene measures:

Good industrial hygiene practices should be observed.

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers at $8-21^{\circ}C$ ($46.4-69.8^{\circ}F$) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

7.3. Specific end use(s)

Anaerobic

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters Valid for

Great Britain

Ingredient	ppm	mg/m ³	Type	Category	Remarks
METHACRYLIC ACID 79-41-4	40	143	Short Term Exposure Limit (STEL):		EH40 WEL
METHACRYLIC ACID 79-41-4	20	72	Time Weighted Average (TWA):		EH40 WEL
CUMENE 98-82-8	25	125	Time Weighted Average (TWA):		EH40 WEL
CUMENE 98-82-8	50	250	Short Term Exposure Limit (STEL):		EH40 WEL
CUMENE 98-82-8			Skin designation:	Can be absorbed through the skin.	EH40 WEL
CUMENE 98-82-8			Skin designation:	Can be absorbed through the skin.	ECTLV
CUMENE 98-82-8	50	250	Short Term Exposure Limit (STEL):	Indicative	ECTLV
CUMENE 98-82-8	20	100	Time Weighted Average (TWA):	Indicative	ECTLV

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value			Remarks	
			mg/l	ppm	mg/kg	others	
Acrylic acid	aqua		0,003 mg/l				
79-10-7	(freshwater)						
Acrylic acid	aqua (marine		0,0003				
79-10-7	water)		mg/l				
Acrylic acid	aqua		0,0013				
79-10-7	(intermittent		mg/l				
	releases)						
Acrylic acid	STP		0,9 mg/l				
79-10-7							
Acrylic acid	sediment				0,0236		
79-10-7	(freshwater)				mg/kg		
Acrylic acid	sediment				0,00236		
79-10-7	(marine water)				mg/kg		
Acrylic acid	soil				1 mg/kg		
79-10-7							
Acrylic acid	oral				0,0023		
79-10-7					mg/kg		
2-Hydroxyethyl methacrylate	aqua					0,482 mg/L	
868-77-9	(freshwater)						
2-Hydroxyethyl methacrylate	aqua (marine					0,482 mg/L	
868-77-9	water)						
2-Hydroxyethyl methacrylate	STP					10 mg/L	
868-77-9							
2-Hydroxyethyl methacrylate	aqua					1 mg/L	
868-77-9	(intermittent						
	releases)						
2-Hydroxyethyl methacrylate	sediment				3,79 mg/kg		
868-77-9	(freshwater)						
2-Hydroxyethyl methacrylate	sediment				3,79 mg/kg		
868-77-9	(marine water)						
2-Hydroxyethyl methacrylate	soil				0,476		
868-77-9					mg/kg		

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Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Acrylic acid 79-10-7	worker	inhalation	Long term exposure - local effects		30 mg/m3	
Acrylic acid 79-10-7	worker	inhalation	Acute/short term exposure - local effects	exposure - local		
Acrylic acid 79-10-7	worker	dermal	Acute/short term exposure - local effects	exposure - local		
2-Hydroxyethyl methacrylate 868-77-9	worker	dermal	Long term exposure - systemic effects	exposure -		
2-Hydroxyethyl methacrylate 868-77-9	worker	inhalation	Long term exposure - systemic effects	ong term xposure -		
2-Hydroxyethyl methacrylate 868-77-9	general population	dermal	Long term exposure - systemic effects	ng term osure -		
2-Hydroxyethyl methacrylate 868-77-9	general population	inhalation	Long term exposure - systemic effects		2,9 mg/m3	
2-Hydroxyethyl methacrylate 868-77-9	general population	oral	Long term exposure - systemic effects		0,83 mg/kg	

8.2. Exposure controls:

Respiratory protection:

Use only in well-ventilated areas.

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; ≥ 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Wear protective glasses.

Skin protection:

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid liquid Amber Odor Sharp

No data available / Not applicable pН Initial boiling point No data available / Not applicable > 100 °C (> 212 °F); Tagliabue closed cup Flash point

No data available / Not applicable Decomposition temperature

Vapour pressure < 4 mbar MSDS-No.: 153501 RVM Adhesive Page 8 of 12

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(20 °C (68 °F))

Density 1,05 g/cm³

0

Bulk density
No data available / Not applicable
Viscosity
No data available / Not applicable
Viscosity (kinematic)
No data available / Not applicable
Explosive properties
No data available / Not applicable

Solubility (qualitative) Insoluble

(Solvent: Water) Solidification temperature No data available / Not applicable No data available / Not applicable Melting point Flammability No data available / Not applicable Auto-ignition temperature No data available / Not applicable Explosive limits No data available / Not applicable Partition coefficient: n-octanol/water No data available / Not applicable Evaporation rate No data available / Not applicable Vapor density No data available / Not applicable No data available / Not applicable Oxidising properties

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with strong acids. Reacts with strong oxidants. Reaction with strong bases

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Inhalative toxicity:

Irritating to respiratory system

Skin irritation:

Irritating to the skin.

Eye irritation:

Risk of serious damage to eyes

Sensitizing:

May cause sensitization by skin contact.

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Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Methacrylic acid 79-41-4	LC50	7,1 mg/l	inhalation	4 h	rat	
Cumene hydroperoxide 80-15-9	LD50 LC50 LD50	550 mg/kg 220 ppm 500 mg/kg	oral inhalation dermal	4 h	rat rat rat	

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Cumene hydroperoxide 80-15-9	corrosive		rabbit	

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Methacrylic acid 79-41-4	not sensitising	Buehler test	guinea pig	

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of	Metabolic activation /	Species	Method
		administration	Exposure time		
Acrylic acid 79-10-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
Cumene hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Cumene hydroperoxide 80-15-9	negative	dermal		mouse	
2-Hydroxyethyl methacrylate 868-77-9	negative positive	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

SECTION 12: Ecological information

General ecological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Ecotoxicity:

Do not empty into drains / surface water / ground water.

Mobility:

Cured adhesives are immobile.

Persistence and Biodegradability:

The product is not biodegradable.

Bioaccumulative potential:

No data available.

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12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity	Exposure time	Species	Method
Hydroxypropyl methacrylate 27813-02-1	LC50	493 mg/l	Study Fish	48 h	Leuciscus idus melanotus	
Acrylic acid 79-10-7	LC50	27 mg/l	Fish	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Acrylic acid 79-10-7	EC50	47 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Acrylic acid 79-10-7	EC50	0,04 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
3-trimethoxysilylpropyl methacrylate 2530-85-0	LC50	> 1.042 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
3-trimethoxysilylpropyl methacrylate 2530-85-0	EC50	> 876 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation
3-trimethoxysilylpropyl methacrylate 2530-85-0	EC50	> 536 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacrylic acid 79-41-4	LC50	100 - 180 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute
Methacrylic acid 79-41-4	EC50	> 130 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute
Methacrylic acid 79-41-4	EC50	> 8,2 mg/l	Algae			Immobilisation Test) OECD Guideline 201 (Alga, Growth
Cumene hydroperoxide 80-15-9	LC50	3,9 mg/l	Fish	96 h	Oncorhynchus mykiss	Inhibition Test) OECD Guideline 203 (Fish, Acute
Cumene hydroperoxide 80-15-9	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation
Cumene hydroperoxide 80-15-9	ErC50	3,1 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	Test) OECD Guideline 201 (Alga, Growth
2-Hydroxyethyl methacrylate 868-77-9	LC50	227 mg/l	Fish	96 h	Pimephales promelas	Inhibition Test) OECD Guideline 203 (Fish, Acute
2-Hydroxyethyl methacrylate 868-77-9	EC50	380 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation
2-Hydroxyethyl methacrylate 868-77-9	EC50	345 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
Cumene 98-82-8	LC50	4,8 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute
Cumene 98-82-8	EC50	4 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute
Cumene 98-82-8	EC50	2,6 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	Immobilisation Test) OECD Guideline 201 (Alga, Growth Inhibition Test)

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12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Hydroxypropyl methacrylate 27813-02-1	readily biodegradable	aerobic	94,2 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Acrylic acid 79-10-7	readily biodegradable	aerobic	81 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
3-trimethoxysilylpropyl methacrylate 2530-85-0		aerobic	74 %	OECD Guideline 301 A (old version) (Ready Biodegradabiltiy: Modified AFNOR Test)
Methacrylic acid 79-41-4	readily biodegradable	aerobic	86 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Cumene hydroperoxide 80-15-9			18 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
2-Hydroxyethyl methacrylate 868-77-9	readily biodegradable	aerobic	98 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Cumene 98-82-8		aerobic	86 %	

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Hydroxypropyl methacrylate 27813-02-1	0,97					
Acrylic acid 79-10-7	0,46				25 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)
Methacrylic acid 79-41-4	0,93					
Cumene hydroperoxide 80-15-9		9,1		calculation		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
Cumene hydroperoxide 80-15-9	2,16					-
Cumene 98-82-8		35,5		Carassius auratus		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
Cumene 98-82-8	3,55				23 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Disposal must be made according to official regulations.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

SECTION 14: Transport information

General information:

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

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SECTION 15: Regulatory information

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

< 3 %

VOC content (1999/13/EC)

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

R10 Flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R21/22 Harmful in contact with skin and if swallowed.

R23 Toxic by inhalation.

R34 Causes burns.

R35 Causes severe burns.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R37 Irritating to respiratory system.

R43 May cause sensitisation by skin contact.

R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R50 Very toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R7 May cause fire.

H226 Flammable liquid and vapor.

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and it's subsequent amendments, and Commission Directive 1999/45/EC.