Revision: 22.04.2024
Version: 2.0/EN

Safety Data Sheet

in accordance the Commission Regulation (EU) No 2020/878 of 18 June 2020
amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council
concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

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

1.1. Product identifier

R-KEM-II, R-KEM-II-S, R-KEM-II-W, R-KEM-II-Stone, R-KEM-II-Grey
UFI code: 1WM9-WKSG-2101-7NX5

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

Identified uses: Customer use, professional use, industrial use; for chemical injections
Uses advised against: Every way of using not mentioned above or in the point 7.3

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: 730 975 700

E-mail (competent person): infochem@rawlplug.com

1.4 Emergency telephone number

Nationwide emergency phone number (8:00 – 16:00): + 48 71 320 91 00
PL: 112 (emergency call)

Emergency telephone number

Country	Official advisory body	Address	Emergency number	Remark
Austria	Vergiftungsinformationszentra le (Poisons Information Centre)	Stubenring 6 1010 Wien	+43 1 406 43 43	
Belgium	Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base – Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245	Please dial: 070 245245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)
Bulgaria	Национален токсикологичен информационен център (National Toxicological Information Centre) Многопрофилна болница за активно лечение и спешна медицина "Н.И.Пирогов" (National Clinical Toxicology Centre), Emergency Medical Institute "Pirogov"	21 Totleben Boulevard 1606 SOFIA	+359 2 9154 409	
Croatia	Centar za kontrolu otrovanja Institut za medicinska istraživanja i medicinu rada	Ksaverska Cesta 2 p.p. 291 10000 Zagreb	+385 1 234 8342	
Cyprus	Κέντρου Δηλητηριάσεων		1401	Operating hours 24 hours / 24 hours, 7 days a week
Czech Republic	Toxikologickéinformačnístředisko Klinikapracovníholékařství VFN a 1. LF UK	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402	
Denmark	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23 2400 København NV	+45 82 12 12 12	
Estonia	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	16662 +372 626 93 90	
Finland	Myrkytystietokeskus	Stenbäckinkatu 9 PO BOX 100 29 Helsinki	+358 9 471 977 +358 9 4711	
France	Centre Antipoison et de Toxicovigilance de Paris Hôpital Fernand Widal	200 rue du Faubourg Saint-Denis 75475 Paris Cedex 10	+33 1 40 05 48 48	
France	Centre Antipoison et de Toxicovigilance de Marseille Hôpital Sainte Marguerite	270 boulevard de Sainte Marguerite 13274 Marseille Cedex 09	+33 4 91 75 25 25	
Germany	Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik rechts der Isar der	Ismaninger Straße 22 81675 München	+49 (0) 89 19240	

	Technischen Universität München			
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 (0) 30 19240	
Greece	Poisons Information Centre Children's Hospital P&A Kyriakou	11762 Athens	+30 2 10 779 3777	
Hungary	Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat	Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest	+36 80 20 11 99	
Iceland	Eitrunarmiðstöð Landspítali	Fossvogi 108 Reykjavik	+354 543 22 22	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Italy	Centro Antiveleni Dipartimento di Tossicologia Clinica, Universita Cattolica del Sacro Cuore	Largo Agostino Gemelli 8 168 Roma	+39 06 305 4343	
Latvia	Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs	Hipokrāta 2 1038 Rīga	+371 67 04 24 73	
Lithuania	Apsinuodijimų informacijos biuras	Birutės g. 56 8110 Vilnius	+370 5 236 20 52 +370 687 53378	
Luxembourg	Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+352 8002 5500	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
Netherlands	Nationaal Vergiftigingen Informatie Centrum Universitair Medisch Centrum Utrecht, Het Nationaal Vergiftigingen Informatie Centrum (NVIC) informeert (dieren-) artsen, apothekers en andere professionele hulpverleners over de mogelijke gezondheidseffecten en behandelingsmogelijkheden bij vergiftigingen. Het NVIC is hiervoor dag en nacht bereikbaar, zowel telefonisch als via internet	Huispostnummer B.00.118 PO Box 85500 3508 GA Utrecht	+31 30 274 88 88	Only for thepurpose of informing medical personnel in cases of acute intoxications
Norway	Giftinformasjonen Helsedirektoratet	P.O. Box 7000 St. Olavs Plass 130 Oslo	+47 22 591300	
Poland	National Poisons Information Centre The Nofer Institute of Occupational Medicine (Łódź)	ul. Teresy 8 P.O. BOX 199 90950 Łódź	+48 42 63 14 724	
Portugal	Centro de InformaçãoAntivenenosInstituto Nacional de Emergência Médica	Rua Almirante Barroso, 36 1000-013 Lisboa	+351 808 250 143	
Romania	Department of Clinical Toxicology Spitalul de Urgenta Floreasca	Calea Floreasca Bucuresti	+40 21 230 8000	
Serbia	Nacionalni centar za kontrolu trovanja - VMA	Crnotravska 17 11000 Beograd	+381 11 360 84 40 (24h) +381 11 3672 187	
Slovakia	Národné toxikologickéinformačné centrum UniverzitnánemocnicaBratislava, pracoviskoKramáre, Klinikapracovnéholekárstva a toxikológie	Limbová 5 833 05 Bratislava	+421 2 54 77 41 66	
Slovenia	Center za kliničnotoksikologijo in farmakologijoInternaklinika, UKCL	Zaloška cesta 7 1525 Ljubljana	+386 41 650 500	
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Sevilla	Carretera de San Jerónimo Km 0,4 41080 Sevilla	+34 91 562 04 20	(Toxicological emergencies only). Information in Spanish (24/7)
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	(from abroad: +41 44 251 51 51) non urgent inquiry: +41 44 251 66 66
Switzerland	Tox Info Suisse	Freiestrasse 16 8032 Zürich	145	

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical and chemical hazards:
This mixture does not present a physical hazard.

Health hazards
Classification according to Regulation (EC) No 1272/2008

Sensitisation Skin, Hazard Category 1[Skin Sens. 1]
May cause an allergic skin reaction. (H317)

Serious eye damage/eye irritation, Hazard Category 2 [Eye Irrit. 2]
Causes serious eye irritation (H319)

Skin corrosion/irritation, Hazard Category 2 [Skin Irrit. 2]
Causes skin irritation (H315)

Environmental hazards:
Hazardous to the aquatic environment - Chronic Hazard,[Category 2] [Aquatic Chronic 2]
Toxic to aquatic life with long lasting effects (H411)

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
Pictograms


GHS07


GHS09

Signal word: Warning
Supplemental Hazard Statements on labels
Contains: Quartz (SiO2); Dibenzoyl peroxide ; 2,2'-(m-tolylimino)diethanol;Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]

Hazard statement(s)
H319 Causes serious eye irritation.
H315 Causes skin irritation
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s)
Prevention:
P264 Wash hands thoroughly after handling.
P260 Do not breathe dust
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P102 Keep out of reach of children
Response:
P305 + P351+P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water
Disposal:
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

The substances contained in the product do not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. The product does not contain substances included in the list established in accordance with Article 59 (1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

Section 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Substance identifier	Name of the substance	Weight fraction %	Classification in line with The Regulation (EC) No. 1272/2008		
			Signal Word Code(s)	Hazard Class and Category Code(s)	Hazard Statement Code(s)
CAS No: 14808-60-7 CE No: 238-878-4 Index No REACH No:	Quartz (SiO2) [1]	20<x<25	_____	Not Classified	_____
CAS No: 16389-88-1 CE No: 240-440-2 Index No REACH No: Exemptions from the obligation to register pursuant to Art. 2 para. 7 Lit. A, Lit B	Dolomite [1]	20<x<25	_____	Not Classified	_____
CAS No: 25013-15-4 CE No 246-562-2 Index No REACH No: 01-2119622074-50-xxxx	Vinyltoluene [1]	15<x<20	GHS02 GHS07 GHS08 Dgr	Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2 Asp. Tox. 1 Acute Tox. 4 Aquatic Chronic 3	H226 H315 H319 H304 H332 H412
CAS No: 94-36-0 CE No 202-327-6 Index No: 617-008-00-0 REACH No: 01-2119511472-50-xxxx	Dibenzoyl peroxide [1]	1<x<2	GHS01 GHS02 GHS07 GHS09 Dgr	Org. Perox. B Eye Irrit. 2 Skin Sens. 1 Aquatic Acute 1 M=10 Aquatic Chronic 1 M= 10	H241 H319 H317 H400 H410
CAS No: 14808-60-7 CE No: 238-878-4 Index No REACH No:	Quartz (SiO2) Fine particulate silica [1]	<1	GHS08 Dgr	STOT RE 1	H372
CAS No: 91-99-6 CE No 202-114-8 Index No REACH No: 01-2120791683-42 -xxxx	2,2'-(m-tolylimino)diethanol	<0.5	GHS05 GHS08 GHS07 Dgr	Acute Tox. 4 Skin Irrit. 2 Skin Sens. 1B Eye Dam. 1 STOT RE 2 (Nerka)	H302 H315 H317 H318 H373
CAS No : CE No 911-490-9 Index No: REACH No: 01-2119979579-10-xxxx	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-	<0.5	GHS05 GHS07 Dgr	Acute Tox. 4 Skin Irrit. 2 Skin Sens. 1 Eye Dam. 1 Aquatic Chronic 3	H302 H315 H317 H318 H412
CAS No: 107-21-1 CE No 203-473-3 Index No: 603-027-00-1 REACH No: 01-2119456816-28-xxxx	Ethane-1,2-diol [1.2]	<0.5	GHS07 GHS08 Wng	Acute Tox. 4 STOT RE 2	H302 H373

[1] Substance with national exposure limit in the workplace
[2] Substance with UE exposure limit in the workplace

Full H phrases are specified in point 16 hereof.

Section 4: First aid measures

4.1. Description of first aid measures

First-aid measures general:

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact:	Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get immediate medical advice/attention.
Eye contact:	Get immediate medical advice/attention. Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
Ingestion:	Drink plenty of water. Do not induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

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

Skin contact:	Causes skin irritation. May cause an allergic skin reaction.
Eye contact:	Causes serious eye irritation
Ingestion:	May cause irritation of the mucous membranes of gastrointestinal tract, nausea, vomiting,
Inhalation:	There may be irritation. Exposure may cause coughing or wheezing.

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

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Foam, powder, carbon dioxide, water in spray.
Unsuitable extinguishing media:
Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

During combustion harmful gases consisting of carbon oxides may be produced. Do not inhale combustion products, may cause health risk.

5.3. Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Containers may burst if heated due to the rise of pressure. In case of fire cool endangered containers with water fog from safe distance. Do not let extinguishing water to reach drainage system. Collect used extinguishing media.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Take unprotected persons out of the risk area. Avoid direct contact with the mixture. Do not inhale dust. Remove all sources of ignition.
Avoid airborne dust generation, wear personal protective equipment in compliance with national legislation. Provide adequate ventilation.
For emergency responders
Ensure that breakdown and its results are only trained personnel. Use personal protective equipment.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Collect spillage. This material and its container must be disposed of in a safe way, and as per local legislation. Recover mechanically the product. On land, sweep or shovel into suitable containers. Store away from other materials. Dispose of materials or solid residues at an authorized site.

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

7.1. Precautions for safe handling

Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact during pregnancy/while nursing. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid exceeding the given occupational exposure limits (see section 8). For personal protection see section 8. Use only non-sparking tools. Take precautionary measures against static discharge.

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).

7.3. Specific end use(s)

Chemical anchoring system for building industry.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Quartz [14808-60-7]				
	Limit value - Eight hours		**Limit value - Short term**	
	[ppm]	**[mg/m³]**	**[ppm]**	**[mg/m³]**
Austria		0.05(1)(2)		
Belgium		0.1		
Denmark		0,3 inhalable aerosol 0,1 respirable aerosol		0,6 inhalable aerosol 0,2 respirable aerosol
Finland		0.05(1)		
France		0,1 respirable aerosol		
Hungary		0,15 respirable aerosol		
Ireland		0,1 (1)		
Norway		0,3 (1) 0,1 (2)		
Poland		0.1(1)		
Spain		0,05 (1)		
Sweden		0,1 (1)		
Switzerland		0,15 respirable aerosol		
The Netherlands		0,075 respirable dust		
Remarks: Austria (1) MAK value (2) Respirable fraction Finland (1) Respirable fraction France Bold type: Restrictive statutory limit values Ireland (1) Respirable fraction Norway (1) Total dust (2) Respirable fraction Poland (1) Respirable fraction Spain (1) Respirable fraction				

Sweden (1) Respirable fraction				
Calcium carbonate [471-34-1]				
Limit value - Eight hours		**Limit value - Short term**		
ppm	**mg/m³**	**ppm**	**mg/m³**	
France	10 inhalable aerosol			
Hungary	10 inhalable aerosol			
Ireland	10 (1)			
	4 (2)			
Latvia	6			
Poland	10			
Switzerland	3 respirable aerosol			
United Kingdom	10 inhalable aerosol			
	4 respirable aerosol			
Remarks				
Ireland (1) Inhalable fraction (2) Respirable fraction				
Dibenzoyl peroxide [94-36-0]				
	Limit value - Eight hours		**Limit value - Short term**	
	ppm	**mg/m ³**	**ppm**	**mg/m³**
Austria	5 inhalable aerosol		10 inhalable aerosol	
Belgium	5			
Denmark	5		10	
Finland	5		10 (1)	
France	5			
Germany (AGS)	5 inhalable aerosol		5 inhalable aerosol (1)	
Germany (DFG)	5 (1)		5 (1)(2)	
Hungary	5 (1)		5 (1)(2)	
Ireland	5			
Norway	5			
Poland	5		10 (1)	
Spain	5			
Switzerland	5 inhalable aerosol		5 inhalable aerosol	
United Kingdom	5			
Remarks				
Finland (1) 15 minutes average value				
Germany (AGS) (1) 15 minutes average value				
Germany (DFG) (1) Inhalable fraction (2) 15 minutes average value				
Hungary (1) Skin (2) 15 minutes average value				
Poland (1) 15 minutes average value				
Spain sen				
Ethane-1,2-diol [107-21-1]				
Limit value - Eight hours		**Limit value - Short term**		
ppm	**mg/m³**	**ppm**	**mg/m³**	
Belgium	20 (1)(2)	52 (1)(2)	40 (1)(2)(3)	104 (1)(2)(3)
European Union	20	52	40 (1)	104 (1)
Finland	20	50	40 (1)	100 (1)
Hungary		52 (1)		104 (1)(2)
Italy	20 (1)	52 (1)	40 (1)(2)	104 (1)(2)
Norway	20 (1)	52 (1)	40 (1)(2)1	04 (1)(2)
Romania	20	52	40 (1)	104 (1)
Sweden	10	25	40 (1)	104 (1)
The Netherlands		52 (1)		104 (1)(2)
Remarks				
Belgium (1) Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air. (2) Additional indication "M" means that irritation occurs when the exposure exceeds the limit value or there is a risk of acute poisoning. The work process must be designed in such a way that the exposure				

never exceeds the limit value. For evaluation, the sampled period should be as short as possible. However, the sampled period shall be long enough to perform a reliable measurement. The measured result shall be related to the considered period. (3) 15 minutes average value				
European Union (1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~ (for references see bibliography)				
Finland (1) 15 minutes average value				
Hungary (1) Skin (2) 15 minutes average value				
Italy (1) Skin (2) 15 minutes average value				
Norway (1) Skin (2) 15 minutes average value				
Romania (1) 15 minutes average value				
Sweden (1) 15 minutes average value				
The Netherlands (1) Skin (2) 15 minutes average value				
Xylene, o-, m-, p- or mixed isomers [1330-20-7]				
	Limit value - Eight hours		**Limit value - Short term**	
	[ppm]	**[mg/m³]**	**[ppm]**	**[mg/m³]**
Austria	50	221	100	442
Belgium	50 (1)	221 (1)	100 (1)(2)	442 (1)(2)
Denmark	25 (1)	109 (1)	50 (1)(2)	218 (1)(2)
European Union	50	221	100 (1)	442 (1)
Finland	50	220	100 (1)	440 (1)
France	50	221	100 (1)	442 (1)
Germany (AGS)	50 (1)	220 (1)	100 (1)(2)	440 (1)(2)
Germany (DFG)	50 (1)	220 (1)	100 (1)(2)	440 (1)(2)
Hungary		221		442
Ireland	50	221	100 (1)	442 (1)
Israel	100	434	150	651
Italy	50 (1)	221 (1)	100 (1)(2)	442 (1)(2)
Latvia	50	221	100 (1)	442 (1)
Norway	25 (1)	108 (1)		
Poland		100 (1)		200 (1)(2)
Romania	50	221	100 (1)	442 (1)
Singapore	100	434	150	651
South Korea	100	435	150	655
Spain	50	221	100	442
Sweden	50	221	100 (1)	442 (1)
Switzerland	100	435	200	870
The Netherlands		210		442
United Kingdom	50	220	100	441
Remarks				
Belgium (1) Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air. (2) 15 minutes average value				
Denmark (1) Skin (2) 15 minutes average value				
European Union (1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~ (for references see bibliography)				
Finland (1) 15 minutes average value				
France Bold type: Restrictive statutory limit values Skin (1) 15 minutes average value				
Germany (AGS) (1) Skin (2) 15 minutes average value				
Germany (DFG) (1) Skin (2) 15 minutes average value				
Ireland (1) 15 minutes reference period				
Italy (1) Skin (2) 15 minutes average value				
Latvia (1) 15 minutes average value				
Norway (1) Skin				
Poland (1) Skin (2) 15 minutes average value				
Romania (1) 15 minutes average value				
Sweden (1) 15 minutes average value				

Ethylbenzene [100-41-4]				
	Limit value - Eight hours		Limit value - Short term	
	[ppm]	[mg/m³]	[ppm]	[mg/m³]
Austria	100	440	200	880
Belgium	20 (1)	87 (1)	125 (1)(2)	551 (1)(2)
Denmark	50 (1)	217 (1)	100 (1)(2)	434 (1)(2)
European Union	100	442	200 (1)	884 (1)
Finland	50	220	200 (1)	880 (1)
France	20	88,4	100 (1)	442 (1)
Germany (AGS)	20 (1)	88 (1)	40 (1)(2)	176 (1)(2)
(DFG)	20 (1)	88 (1)	40 (1)(2)	176 (1)(2)
Hungary		442		884
Ireland	100	442	200 (1)	884 (1)
Italy	100 (1)	442 (1)	200 (1)(2)	884 (1)(2)
Latvia	100	442	200 (1)	884 (1)
Norway	5 (1)	20 (1)		
Poland		200		400
Romania	100	442	200 (1)	884 (1)
Spain	100	441	200	884
Sweden	50	220	200 (1)	884 (1)
Switzerland	100	435	100	435
The Netherlands		215		430
United Kingdom	100	441	125	552

Remarks
Belgium (1) Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air. (2) 15 minutes average value
Denmark (1) Skin (2) 15 minutes average value
European Union (1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~ (for references see bibliography)
Finland (1) 15 minutes average value
France Bold type: Restrictive statutory limit values Skin (1) 15 minutes average value
Germany (AGS) (1) Skin (2) 15 minutes average value
Germany (DFG) (1) Skin (2) 15 minutes average value
Ireland (1) 15 minutes reference period
Italy (1) Skin (2) 15 minutes average value
Latvia (1) 15 minutes average value
Norway (1) Skin
Romania (1) 15 minutes average value
Spain skin
Sweden (1) 15 minutes average value

Methylstyrenes, all isomers except alpha-methylstyrene [25013-15-4]				
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
Austria	100	480	100	480
Belgium	50	246	100 (1)	490 (1)
Denmark	25	120	50	240
France	50	240		
Germany (AGS)	100	490	200 (1)	980 (1)
Germany (DFG)	20	98	40 (1)	196 (1)
Ireland	50	242	100 (1)	483 (1)
Latvia		50		
Poland		100		300
Spain	50	246	100	492
Sweden	10	50	30 (1)	150 (1)
Switzerland	35	172	100 (1)	490 (1)
United Kingdom	[100]	[491]	[150]	[736]

Remarks
Belgium (1) 15 minutes average value
Germany (AGS) (1) 15 minutes average value
Germany (DFG) (1) 15 minutes average value
Ireland (1) 15 minutes reference period
Sweden (1) 15 minutes average value
Switzerland (1) 15 minutes average value
United Kingdom The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.

Dolomite [16389-88-1]			
Limit value - Eight hours		**Limit value - Short term**	
ppm	**mg/m³**	**ppm**	**mg/m³**
Latvia	6		
Poland	10 (1)		
Remarks			
Poland (1) Inhalable fraction			

Legal basis:

Directive 2014/27/Eu Of The European Parliament And Of The Council of 26 February 2014 amending Council Directives 92/58/EEC, 92/85/EEC, 94/33/EC, 98/24/EC and Directive 2004/37/EC of the European Parliament and of the Council, in order to align them to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

COMMISSION DIRECTIVE 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC. COMMISSION DIRECTIVE 2006/15/EC of 7 February 2006establishing 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 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.

DNEL/PNEC

Benzoyl peroxide [94-36-0]	
DNEL Workers	
long-term, dermal, systemic:	13.3 mg/kg
long term, inhalative, systemic:	39 mg/m³
long-term, dermal, local:	0.34 mg/cm²
DNEL Consumer	
long term, oral, local:	2 mg/kg
PNEC	
water (fresh water):	0.0002 mg/L
water (sea water):	0.00002 mg/L
sediment (fresh water):	0.013 mg/kg
sediment (sea water):	0.001 mg/kg
soil: 0.003 mg/kg	
sewage treatment plant:	0.35 mg/L
Ethylene glycol [107-21-1]	
DNEL/DMEL (Employees)	
Systematic, long-term effects: skin	106 mg/kg
Systematic, long-term effects: inhalation	35 mg/cm³
DNEL/DMEL (Consumers)	
Systematic, long-term effects: inhalation	7 mg/m³
Systematic, long-term effects: skin	53 mg/kg
PNEC	
PNEC water (fresh water)	10 mg/l
PNEC marine water	1 mg/l

PNEC soil	1.53 mg/kg
Freshwater sediment	20.9 mg/kg
STP (water treatment plants)	199 mg/l

Recommended monitoring procedures

Monitoring procedures should be used fot concentrations of hazardous components in the air. Air quality control procedures should be used in the workplace - as long as they are available and reasonable for the job - in accordance with the relevant Polish or European Standards, taking into account the conditions prevailing at the site of exposure and corresponding measurement methodologies adapted to the conditions work. Mode, type and frequency of tests and measurements should meet the requirements of the Regulation of the Minister of Health on 2 February 2011. (Dz. U. 2011 No. 33, item. 166).

8.2. Exposure controls

8.2.1 Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommend exposure limits. If user operations generate vapours, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

8.2.2 Individual protection measures, such as personal protective equipment

Breathing equipment: Not required in case of adequate ventilation. In case of brief exposure or low pollution use respiratory filter device. At concentrations causing irritation use mask with filter. . Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eye protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Protection of hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: Personal protective equipment for the body should be selected based on the task being performer and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hygiene at work: Apply general hygiene at work rules. After work, remove contaminated clothes and wash thoroughly the whole body. Wash your hands and face during breaks. Restrain from drinking and eating or smoking at work.

8.2.3 Environmental exposure controls

Avoid release to the environment, do not enter the sewage system. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Paste Solid
Colour:	Component A: Yellow Component B: Black
Odour:	Characteristic
Smell threshold	Information unavailable
Melting/ clotting point	Information unavailable

Initial boiling point and boiling range:	Information unavailable
Flammability:	Information unavailable
Upper/lower flammability or explosive limits:	Information unavailable
Flash point:	Information unavailable
Auto-ignition temperature:	Information unavailable
Decomposition temperature:	Information unavailable
pH	Component A: 4 Component B: not specified
Dynamic viscosity (23°C; 100 [s-1]):	R-KEM-II 8,9 ± 1,0 [Pa·s] R-KEM-II-S 8,8 ± 1,0 [Pa·s] R-KEM-II-W 6,6 ± 1,0 [Pa·s] R-KEM-II-Grey 8,9 ± 1,0 [Pa·s] R-KEM-II- Stone 8,9 ± 1,0 [Pa·s] Component B: 3.6 ± 0.5 [Pa·s]
Solubility:	Insoluble in water
Partition coefficient: n-octanol/water:	Information unavailable
Vapour pressure:	Information unavailable
Density and/or relative density	Component A : 1.65 ± 0.1 [g/cm^3] Component B: 1.4 - 1.5 [g/cm^3]
Relative vapour density	Information unavailable
Particle characteristics	Paste

9.2 Other information

9.2.1 Information with regard to physical hazard classes
Information unavailable.

9.2.2 Other safety characteristics
Information unavailable.

Section 10: Stability and reactivity

10.1 Reactivity
No reactivity under recommended storage and handling conditions.

10.2 Chemical stability
Product is stable under normal storage conditions (temp. 5 - 250C). 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
No further relevant information available.

10.4 Conditions to avoid
To avoid thermal degradation of product do not allow to overheat it over the temperature of recommended storage. Protect from sunlight.

10.5 Incompatible materials
No specific data.

10.6 Hazardous decomposition products
Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds. Reference to other sections: 5.2.

Section 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicity of mixture

ATE MIX oral (mg / kg):>2000 The mixture does not contain substances classified in this hazard class.
ATE MIX dermal (mg/kg):):>2000 The mixture does not contain substances classified in this hazard class.
ATE MIX inhalation (mg / l / 4h):>20 The mixture does not contain substances classified in this hazard class.
*ATEmix value was calculated using relevant converted acute toxicity point estimate included in 3.1.2 table from Regulation 1272/2008/EC.

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
May cause an allergic skin reaction.

Germ cell mutagenicity
Based on available information, classification criteria are not met.

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
Based on available information, classification criteria are not met.

Specific target organ toxicity - single exposure
Based on available information, classification criteria are not met.

Specific target organ toxicity - repeated exposure
Based on available information, classification criteria are not met.

Aspiration hazard
Based on available information, classification criteria are not met

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin contact:	Causes skin irritation. May cause an allergic skin reaction.
Eye contact:	Causes serious eye irritation
Ingestion:	May cause irritation of the mucous membranes of gastrointestinal tract, nausea, vomiting.
Inhalation:	There may be irritation. Exposure may cause coughing or wheezing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The components of the mixture do not affect the functioning of the hormonal system in accordance with the evaluation criteria defined in the Regulations: (EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605.

11.2.2 Other information

Not applicable to substances.

Section 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects

In order to minimise long term global pollution consideration should be given to:

- Reduction in consumption of disposable products and packaging.
- Participation in recycling activities

12.2 Persistence and degradability

It is not determined for the mixture.

12.3 Bioaccumulative potential

It is not determined for the mixture.

12.4 Mobility in soil

Insoluble in water.

The mobility of the substance depends on their hydrophilic and hydrophobic properties and abiotic and biotic conditions of soil, including its structures, climatic conditions, seasons (in Poland, in a variable moderate climate) and soil organisms, mainly (bacteria, fungi, algae, invertebrates).

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Endocrine disrupting properties

The product shall not contain ingredients included on the list established in accordance with Article 59(1) as having endocrine disrupting properties or ingredients with endocrine disrupting properties according to the criteria laid down in Regulation 2017/2100/EU or Regulation 2018/605/EU in concentrations equal to or greater than 0.1%.

12.7 Other adverse effects

The mixture is not classified as hazardous to the ozone layer. There should be considered the possibility of other harmful effects of the individual components of the mixture on the environment. (eg. the ability of disrupting endocrine, the impact of global warming potential).

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

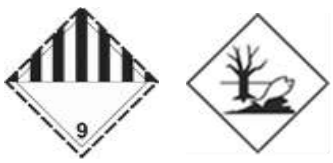
Hazardous waste codes (EWC):

16 05 08* discarded organic chemicals consisting of or containing hazardous substances

15 01 10* packaging containing residues of or contaminated by hazardous substances

Legal basis: Directive 2008/98/EC /2014/955/UE

Section 14: Transport information



14.1 UN number or ID number

ADR/RID/IMDG/IATA: UN3077

14.2 UN proper shipping name

ADR/RID/IMDG/IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
Special provisions 274: Dibenzoyl peroxide

14.3 Transport hazard class (es)

ADR/RID/IMDG/IATA: 9

14.4 Packing group

ADR/RID/IMDG/IATA: III

14.5 Environmental hazards

ADR/RID/IMDG/IATA: The product is classified as dangerous for the environment according to criteria contained in the transport rules

14.6 Special regulations:

ADR

Tunnel restriction code:	[-]
Transport category:	3/ limited 1000 kg
LQ [3.4.6]:	5 kg
Excepted Quantities	E1
Packing instructions:	P002; LP02; IBC08.R001
Special provisions:	375,274;335;601/PP12; B3; V13.VC1.VC2

IMDG:

Special provisions	274. 335. 966.967.969/ PP12. B3
EmS:	F-A, S-F
Stowage and handling	Category A SW23
Limited Quantity:	5 kg
Excepted Quantities	E1
Packing instructions:	P002.LP02.IBC08

IATA

IATA (Passenger)	
EQ (IATA):	E1
Ltd Qty Pkg Inst. (IATA) :	Y956
Ltd Qty Max Net Qty/Pkg:	30 kg G
Packing instructions::	956
Max Net Qty/Pkg:	450 Kg
IATA (Cargo)	
Packing instructions:	956
Max Net Qty/Pkg:	450 Kg
Special provisions:	A97.A158.A179.A197.A215
ERG Code:	9L

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Inapplicable

Section 15: Regulatory information

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	**No 3; No 75**
2012/18/EU (Seveso III)	**E2 environmental hazards (hazardous to the aquatic environment, cat. 2** Qualifying quantity (tonnes) for the application of lower and upper-tier requirements 200 500
Wassergefährdungsklasse	**Water hazard class 2 (self-assessment): hazard to waters** Classification according to Annex 1 of the Ordinance on Installations Handling Substances Hazardous to Water (AwSV)

Other legislation:

1. **1907/2006/EC** Regulation on Registration, Evaluation, Authorisation 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
2. **1272/2008/EC** of the Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures - amending and repealing Directive 67/548/EEC and 1999/45/EC, and Regulation (EC) No 1907/2006.
3. **2018/669/UE** Commission Regulation (EU) 2018/669 of 16 April 2018 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. Text with EEA relevance.
4. **790/2009/EC** of 10 August 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.
5. **2008/98/EC** Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives
6. **94/62/EC** Commission Directive 2013/2/EU of 7 February 2013;amending Annex I to Directive 94/62/EC of the European Parliament and of the Council on packaging and packaging waste
7. **2015/830/EU** Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
8. **2013/10/EU** Commission Directive of 19 March 2013 amending Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures Text with EEA relevance
9. **European** Agreement Concerning the International Carriage of Dangerous Goods by Road 2019-2021

15.2 Chemical safety assessment

The supplier has not assessed chemical safety. It is not required for the mixture.

Section 16: Other information

Other sources of information:

IUCLID Data Bank (European Commission – European Chemicals Bureau).
ESIS – European Chemical Substances Information System (European Chemicals Bureau).

The information above is based on the currently available data concerning the product and the experience and knowledge in this field of the producer.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.
The information in this document is based on the present state of our knowledge and is applicable to the product with

regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Koelner Rawlplug IP Sp. z o.o. shall not be held liable for any damage resulting from handling or from contact with the above product

Classification according to Regulation (EC) No 1272/2008		
Skin Sens. 1	H317	calculation method
Skin Irrit. 2	H315	calculation method
Eye Irrit. 2	H319	calculation method
Aquatic Chronic 2	H411	calculation method

H (hazard) phrases specified in point 2 and 3 hereof:

H317	May cause an allergic skin reaction
Skin Sens. 1	Sensitisation — Skin, hazard category 1, 1A, 1B
H319	Causes serious eye irritation.
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2
H315	Causes skin irritation
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2
H241	Heating may cause a fire or explosion
Org. Perox. B	Self-Reactive Substances and Mixtures, Type B 2.1.5 — Organic Peroxides, Type B
H400	Very toxic to aquatic life.
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
H410	Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
H411	Toxic to aquatic life with long lasting effects
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
H373	May cause damage to organs
STOT RE 2	Specific target organ toxicity —Repeated exposure, Hazard Category 2
H302	Harmful if swallowed
Acute Tox4	Acute toxicity (oral), Hazard Category 4
H226	Flammable liquid and vapour
Flam. Liq. 3	Flammable liquids, Hazard Category 3
H225	Highly flammable liquid and vapour
Flam. Liq. 2,	Flammable liquids, Hazard Category 2
H312	Harmful in contact with skin
Acute Tox 4	Acute toxicity (dermal), Hazard Category 4
H332	Harmful if inhaled
Acute Tox4	Acute toxicity (inhal.), Hazard Category 4
H304	May be fatal if swallowed and enters airways.
Asp.Tox.1	Aspiration hazard, Hazard Category 1
H335	May cause respiratory irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Hazard Category 3
H336	May cause drowsiness or dizziness
STOT SE 3	Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis
H318	Causes serious eye damage
Eye Dam 1	Serious eye damage/eye irritation, Hazard Category 1
H361d	Suspected of damaging the unborn child.
Repr. 2	Reproductive toxicity, Hazard Category 2
H412	Harmful to aquatic life with long lasting effects
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
H372	Causes damage to organs through prolonged or repeated exposure (

STOT RE 1	Specific target organ toxicity — Repeated exposure, Hazard Category 1

Explanation of returns

CEN	European Committee for Standardisation
C&L	Classification and Labelling
CLP	Classification Labelling Packaging Regulation ; Regulation (EC) No 1272/2008
CAS	Chemical Abstracts Service number
COM	European Commission
CMR	Carcinogen, Mutagen, or Reproductive Toxicant
CSA	Chemical Safety Assessment
CSR C	hemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
DPD	Dangerous Preparation Directive 1999/45/EEC
DSD	Dangerous Substances Directive 67/548/EEC
EC	European Commission
EC_{50}	Half maximal effective concentration
ECB	European Chemicals Bureau Europejskie
ECHA	European Chemicals Agency
EC	Number EINECS and ELINCS Number (see also EINECS and ELINCS)
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of notified Chemical Substances
EN	European Standard
EU	European Union
GHS	Globally Harmonized System
IC_{50}	Half maximal inhibitory concentration
IUCLID	International Uniform Chemical Information Database
IUPAC	International Union for Pure Applied Chemistry
LC_{50}	Lethal concentration, 50%
LD_{50}	Median Lethal Dose
MSDS	Material Safety Data Sheet
PBT	Persistent, Bioaccumulative and Toxic substance
PEC	PEC Predicted Effect Concentration
PNEC(s)	Predicted No Effect Concentration(s)
PPE	Personal Protection Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
SIEF	Substance Information Exchange Forum
STOT	Specific Target Organ Toxicity
(STOT) RE	Repeated Exposure
(STOT) SE	Single Exposure
SVHC	Substances of Very High Concern
vPvB	Very Persistent and Very Bioaccumulative

Training

Prior to working with the product you should be familiar with safety rules for handling the chemicals, in particular take proper workplace training.

People associated with the transport of hazardous materials in accordance with ADR should be adequately trained to perform their duties (general training, bench and safety).