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-KF2
UFI code: A910-J08K-X00R-R0D2

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. Kwidzynska 6 51-416 Wroclaw Poland
Telephone number	+48 (0) 71 32 60 100
E-mail address of competent person responsible for the SDS	infochem@rawlplug.com

1.4. Emergency telephone number: + 48 661 970 365

Section 2: Hazards identification

2.1. Classification of the substance or mixture

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

Repr. 2	H361D	Suspected of damaging the unborn child.
STOT RE 1	H372	Causes damage to organs (lungs) through prolonged or repeated exposure.
Skin Irrit, 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Org. Perox. E	H242	Heating may cause a fire.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

2.2. Label elements

GHS Pictograms:

Signal word: **Danger**

Hazard statements:

H61D	Suspected of damaging the unborn child.
H315	Causes skin irritation.

	H372	Causes damage to organs (lungs) through prolonged or repeated exposure.
	H411	Toxic to aquatic life with long lasting effects.
	H317	May cause an allergic skin reaction.
	H242	Heating may cause a fire.
	H319	Causes serious eye irritation.
	H304	May be fatal if swallowed and enters airways.

Precautionary statements:

Prevention:	P280	Wear protective gloves, protective clothing, eye protection, face protection.
	P260	Do not breathe dust.
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.
	P314	Get medical advice/attention if you feel unwell.
	P308+P313	IF exposed or concerned: Get medical advice/attention.
Storage:	P403+P235	Store in a well-ventilated place. Keep cool.
Disposal:	P501	Dispose of contents / container in accordance with local/ regional / national / international regulations.

Dangerous substances: Quartz
Dibenzoyl peroxide
Styrene

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. Mixtures

Product identifiers	Ingredient name	Content (% wt.)	Classification (EC) 1272/2008 [CLP]
CAS: 100-42-5 Reg. nr: 01-2119457861-32-xxxx WE: 202-851-5	Styren	12-14	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 Aquatic Chronic 3, H412 Repr. 2, H361D Acute Tox. 4, H332 (inhal) STOT RE 1, H372 Skin Irrit. 2, H315 Eye Irrit. 2, H319
CAS: 14808-60-7 Reg. nr: Exemptions from the obligation to register in accordance with: Annex V.7. WE: 238-878-4	Quartz	< 6	STOT RE 1, H372
CAS: 94-36-0	Dibenzoyl peroxide	< 2,3	Org. Perox. B, H241

Reg.nr: 01-2119511472-50-xxxx WE: 202-327-6			Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Eye Irrit. 2, H319 Skin Sens. 1, H317

Additional information: For the wording of the listed phrases refer to section 16.

Section 4: First aid measures

4.1. Description of first aid measures

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, artificial respiration should be provided or oxygen should be given by qualified personnel. If unconscious, place in recovery position and get medical attention immediately. Contact toxicology center.
Following skin contact:	Contaminated skin should be washed with plenty of soap and water during min. 10 minutes. 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 during min. 15 minutes. Check for and remove any contact lenses. Eyes may be irritated and red.
Following ingestion::	Flush mouth with water. Remove to fresh air and provide conditions for rest in a position that allows breathing. Do not induce vomiting. If the injured is conscious, give him half a liter of water to drink immediately. Bring injured man to the hospital as soon as possible..

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

Eye wash equipment should be available at the workplace.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Use dry chemical (ABC powder) or CO2, alcohol resistant foam or water spray.
Unsuitable extinguishing media:	Unknown

5.2. Special hazards arising from the substance or mixture

Flammable. Forms explosive air-vapour mixture. In case of fire, there is a risk of formation of hazardous decomposition products: carbon oxides, unidentified hydrocarbons.

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.

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. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

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. Environmental precautions

Avoid material entering the soil, sewage system, ground water and surface water Contain the spillage using bunding. Inform the authorities in case of spillage entering the sewers or water courses.

6.3. Methods and material for containment and cleaning up

The product should be absorbed with dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Section 7: Handling and storage

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. Use non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

Store the product 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) See Section 1

Section 8: Exposure controls/personal protection

8.1. Control parameters

Mixture component and CAS number	NDS	NDSCh	NDSP
Styrene 100-42-5	50 mg/m^3	100 mg/m^3	-
Dibenzoyl peroxide 94-36-0	5 mg/m^3	10 mg/m^3	-

Ingredient name and CAS number		Maximum acceptable concentration	
		mg/m^3	fibers in cm^3
Quartz 14808-60-7	inhalable fraction	2	-
	respirable fraction	0,3	-
Calcium carbonate 471-34-1	inhalable fraction	10	-

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

Mixture component and CAS number	Route of exposure	Value	Group	Effect
Dibenzoyl peroxide 94-36-0	Oral Skin Inhalation	2,0 mg/kg 13,3 mg/kg 39,0 mg/m^3	Consumers Workers Workers	Systemic, long-term Systemic, long-term Systemic, long-term
Styrene 100-42-5	Skin Inhalation	406 mg/kg/day 343 mg/kg/day 306 mg/m3 182,75 mg/ m3 289 mg/m3 174,25 mg/m3 10,2 mg/m3 85 mg/m3	Worker Consumer Worker Consumer Worker Consumer Consumer Worker	Systemic effects, long-term Systemic effects, long-term Local, short-term Local, short-term Systemic effects, short-term Systemic effects, short-term Systemic effects, long-term Systemic effects, long-term

PNEC

Mixture component and CAS number	Environmental protection target	Value
Styrene	Fresh water	0,028 mg/l

100-42-5	Marine water Fresh water sediment Marine water sediments Soil Wastewater treatment Periodic release (aquatic environment)	0,0028 mg/l 0,614 mg/l 0,0614 mg/l 0,2 mg/kg 5 mg/l 0,04 mg/l
Dibenzoyl peroxide 94-36-0	Fresh water Marine water Intermittent releases Soil Sewage treatment plant Fresh water sediment Marine water sediments	0,00002 mg/l 0,000002 mg/l 0,000602 mg/l 0,0025 mg/kg dw 0,35 mg/l 0,0127 mg/kg dw 0,00127 mg/kg dw

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. Follow the glove manufacturer's recommendations regarding breakthrough time and permeation.

Skin protection: Use protective clothes.

Respiratory protection: At concentrations causing irritation use mask with filter type: A – against organic gases and vapors (EN 141).

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 quality control:

Nazwa substancji i numer CAS	**Wartości odniesienia substancji w powietrzu, uśrednione dla okresu:**	
	One hour	**One year**
Dibenzoyl peroxide 94-36-0	100 µg/m^3	13 µg/m^3
Ethanediol 107-21-1	100 µg/m^3	10 µg/m^3

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Solids in paste form
Colour	Component A: yellow

	Component B: black
Smell:	Characteristic
Odor threshold:	Not determined
pH	Component A: 4 Component B: not determined
Melting point / freezing point:	Not applicable
Initial boiling point and boiling range:	Not determined
Flash point:	Not applicable
Evaporation rate:	Not determined
Flammability (solid, gas):	Component A: inflammable Component B: not applicable
Upper/lower flammability or explosive limits:	Not determined
Vapour pressure:	Not applicable (product is in solid state)
Relative density:	Component A: 1,64 ± 0,1 g/cm^3 Component B: 1,4 – 1,5 [g/cm^3]
Solubility:	Insoluble in water
Partition coefficient n-octanol/water:	Not determined
Auto-ignition temperature:	The product is not self-igniting.
Decomposition temperature:	Not determined
Dynamic viscosity (23^{0}C; 100 [s^{-1}]):	Component A: 5,6 ± 1,0 [Pa·s] Component B : 3,6 ± 0,5 [Pa·s]
Explosive properties:	Not determined
Oxidizing properties:	Not determined

9.2. Other information: No data.

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^{0}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

No hazardous reaction when handled and stored under normal conditions of use. Decomposition may occur on exposure to conditions or materials listed below.

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. Avoid sources of ignition and flame.

10.5. Incompatible materials

Avoid **s**trong acids, oxidising agents, peroxides.

10.6. Hazardous decomposition products

Unidentified hydrocarbons, carbon and nitrogen oxides.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity — Based on available data for the ingredients in the mixture, classification criteria are not met for the product.

Ingredient name and CAS number	Route of exposure	Species	Result
Styrene 100-42-5	LD_{50} (oral) LD_{50} (skin) LD_{50} (inhalation) (4h)	Rat Rat Rat	>5000 mg/kg >2000 mg/kg 11,8 mg/l
Quartz 14808-60-7	LD_{50} (oral) LD_{50} (skin) LD_{50} (inhalation) 4h	Rat Rabbit Rat	>5000 mg/kg >5000 mg/kg >0,139 mg/l
Dibenzoyl peroxide 94-36-0	LDO (oral) LDO (inhalation)	Rat Rat	7712 mg/kg 24,3 mg/l
Ethanediol 107-21-1	LD_{50} (oral) LD_{50} (skin)	Rat Mouse	7712 kg 3500 mg/kg

Irritation / Corrosivity — Based on available data for the ingredients in the mixture, product is irritating to eyes and skin.

Mutagenicity — Based on available data for the ingredients in the mixture, classification criteria are not met for the product.

Carcinogenicity — Based on available data for the ingredients in the mixture, classification criteria are not met for the product.

Reproductive toxicity — Based on available data for the ingredients in the mixture, suspected of damaging the unborn child.

Single dose toxicity — Based on available data for the ingredients in the mixture, classification criteria are not met for the product.

Repeated dose toxicity — Based on available data for the ingredients in the mixture, products causes damage to organs through prolonged or repeated exposure.

Sensitizing effects — Based on available data for the ingredients in the mixture, classification criteria are not met for the product.

Aspiration hazard — Based on available data for the ingredients in the mixture, may be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation: There may be throat irritation with a feeling of tightness in the chest. Exposure may cause coughing or wheezing..

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

Section 12: Ecological information

12.1. Toxicity

Ingredient name and CAS number	Dose/time of exposure/method	Species	Results
Styrene 100-42-5	EC_{50} / 48h LC_{50} / 96h EC_{50} / 72h	Dafnia Fish Algae	4,7 mg/l 4,02 mg/l 4,9 mg/l
Quartz	LC_{50} / 96h	*Zebra Fish*	>10000 mg/l

14808-60-7			
Dibenzoyl peroxide 94-36-0	LC_{50} / 96h / OECD 203 EC_{50} / 48h / OECD 202 EC_{50} (growth rate) / 72h / OECD 201 NOEC / 96h EC10 / 21d/ OECD TG 211 NOEC / 72 h/	Oncorhynchus mykiss Daphnia magna Pseudokirchnerella subcapitata Fish Daphnia magna Pseudokirchnerella subcapitata	0,0602 mg/l 0,110 mg/l 0,0711 mg/l 0,0316 mg/l 0,001 mg/l 0,02 mg/l
Ethanediol 107-21-1	LC50 /96h / bd EC_{50} / 48h / OECD 202	Pimephales promelas Daphnia magna	72860 mg/l >=100 mg/l

12.2. Persistence and degradability

Dibenzoyl peroxide 94-36-0	71% degradation after 28 days. Readily biodegradable (OECD 301 D)

12.3. Bioaccumulative potential

Dibenzoyl peroxide 94-36-0	Log Kow = 3,2 (OECD TG 117)

12.4. Mobility in soil

Dibenzoyl peroxide 94-36-0	Log K_{oc} = 3,8 (OECD TG 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; 07 02 13 – waste plastic; 16 03 05 – organic wastes containing hazardous substances; 15 02 02 – absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances; 15 01 10 – packaging containing residues of or contaminated by hazardous substances.

Legal basis: Council Directive 2008/98/EC on waste and European Parliament and Council Directive 94/62/EC on

packaging and pakaging waste. Regulation (EC) No 1013/2006 of 14 June 2006 on shipments of waste.

Sekcja 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 **Marine pollutant substances**	Yes. Not applicable.	Yes. dibenzoyl peroxide mixture	Yes. Not applicable.
Spacial provision	375	2.10.2.7. Paragraph	A197
Contents	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.	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.	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).

Section 15: Regulatory information

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

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 (EC) No 790/2009 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.
Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (Text with EEA relevance).
EUROPEAN PARLIAMENT AND COUNCIL DIRECTIVE 94/62/EC of 20 December 1994 on packaging and packaging waste.
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.
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).
REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products.

15.2. Chemical safety assessment Not applicable

Section 16: Other information

Full text of H statements:

H361D	Suspected of damaging the unborn child.
H372	Causes damage to organs (lungs) through prolonged or repeated exposure.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H242	Heating may cause a fire.
H241	Heating may cause a fire or explosion.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H304	May be fatal if swallowed and enters airways.
H226	Flammable liquid and vapour.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
H332	Toxic if inhaled

Hazard class:

Acute Tox. 2	Acute Toxity, category 2
Acute Tox. 4	Acute Toxity, category 4
Eye Irrit. 2	Eye Irritation, category 2
Skin Irrit. 2	Skin Irritation, category 2
Skin Corr. 1B	Skin Corrosion, category 1B

Skin Sens. 1	Skin Sensitisation , category 1.
STOT SE 3	Specific Target Organ Toxity, Single Exprosure category 3
STOT RE 2	Specific Target Organ Toxity, Repeated Exprosure category 2
Aquatic Chronic 1,2,3	Aquatic Chronic, category 1,2,3
Org. Perox. B, E	Organic Peroxide, category B, E.
Aquatic Acute 1	Aquatic Acute, category 1

Acronyms and abbreviations:

DNEL	Derived no-effect level
PNEC	Predicted No Effect Concentration
PBT	Persistent, bioaccumulative and toxicity substances
vPvB	Very persistent and very bioaccumulative substances
NDS	Occupational Exposure
NDSCh	Maximum Permissible Instantaneous Concentration
SvHc	Substances of Very High Concern
STOT RE, SE	Repeated, Single Exposure
STOT	Specific Target Organ Toxicity
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation No 1907/2006
P(N)EC	Predicted (No) Effect Concentration
LD50	Median Lethal Dose
LC50	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 [CLP]:

Classification according to Regulation (EC) No 1272/2008	Classification procedure
Eye Irrit. 2, H319	Calculation method
Skin Irrit. 2, H315	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Chronic 2, H411	Calculation method
Skin Sens. 1, H317	Calculation method
Org Perox E, H242	Research method

Alterations compared to the previous version No data

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.