



SAFETY DATA SHEET

KIVISIL POHJUSTE

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

1.1 Product identifier

Product name : KIVISIL POHJUSTE

Product description : Primer

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

Recommended use: Painting work

1.3 Details of the supplier of the safety data sheet

Manufacturer or Distributor

Tikkurila Oyj
P.O. Box 53
FI-01301 VANTAA
FINLAND
Telephone +358 20 191 2000

e-mail address of person responsible for this SDS : Tikkurila Oyj,
Product Safety,
e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number

Telephone number : 112
(24h)

Supplier or Manufacturer

Telephone number : Tikkurila Oyj
+358 20 191 2000 (GMT +2) Mon-Fri 8-16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Fam. Liq. 3, H226
Skin Corr. 1A, H314
Eye Dam. 1, H318
STOT SE 2, H371
Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements	: H226 - Flammable liquid and vapor. H314 - Causes severe skin burns and eye damage. H371 - May cause damage to organs. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children.
Prevention	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapor. P280 - Wear protective gloves/clothing and eye/face protection. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment.
Response	: P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: poly(dimethylsiloxane) acetic acid methanol
Supplemental label elements	: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Notes
poly(dimethylsiloxane)	CAS: 67923-07-3	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318	-
acetic acid	REACH #: 01-2119475328-30 EC: 200-580-7 CAS: 64-19-7	≤10	Flam. Liq. 3, H226 Skin Corr. 1A, H314 Eye Dam. 1, H318	B
methanol	REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	<5	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	-
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319	-
tetraethyl silicate	REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	-
decamethylcyclopentasiloxane	EC: 208-764-9 CAS: 541-02-6	≤0.3	Not classified.	-
octamethylcyclotetrasiloxane	REACH #: 01-2119529238-36 EC: 209-136-7 CAS: 556-67-2 Index: 014-018-00-1	<0.25	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10)	-

See Section 16 for the full text of the H statements declared above.

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

Specific concentration limits and ATE-values

Ingredient name, Specific concentration limits, ATE value

acetic acid
 Skin Corr. 1A, H314: $C \geq 90\%$
 Skin Corr. 1B, H314: $25\% \leq C < 90\%$
 Skin Irrit. 2, H315: $10\% \leq C < 25\%$
 Eye Irrit. 2, H319: $10\% \leq C < 25\%$

methanol
 STOT SE 1, H370: $C \geq 10\%$
 STOT SE 2, H371: $3\% \leq C < 10\%$

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Show this safety data sheet or label to the doctor if possible.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of lukewarm water, keeping eyelids open. Continue to rinse for at least 20 minutes. Get medical attention immediately. Continue rinsing until medical attention can be obtained.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. In case of chemical burns, get medical attention as soon as possible.
- Ingestion** : If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Remove to fresh air and keep at rest in a position comfortable for breathing. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Causes severe skin burns and eye damage.
 May cause damage to organs.
 Inhalation of vapours may cause dizziness, headache and nausea.
 See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO₂, powders or water spray/mist.

Unsuitable extinguishing media : Do not use a direct water jet that could spread the fire.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Flammable liquid and vapor. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products : When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

5.3 Advice for firefighters

Special protective actions for fire-fighters : Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is hazardous to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for fire-fighters : Fire-fighters should 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 : Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Do not breathe vapor or mist. Do not get in eyes or on skin. Put on appropriate personal protective equipment (see Section 8).

6.2 Environmental precautions : Hazardous to aquatic environment. Do not allow to enter drains, water courses or soil.

6.3 Methods and materials for containment and cleaning up : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Preferably clean with water or detergent. Avoid using solvents.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling : Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Isolate from sources of heat, sparks and open flame. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used. Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid contact with skin and eyes. Avoid inhalation of dust from sanding. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Wear appropriate respirator when ventilation is inadequate. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and

immediately after handling the product. Avoid release to the environment.

7.2 Conditions for safe storage, including any incompatibilities

: Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature is +5°C ...+25°C. Do not allow to freeze. Store in accordance with local regulations.

7.3 Specific end use(s)

: None.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
acetic acid	EU OEL (Europe, 10/2019). Notes: list of indicative occupational exposure limit values STEL: 20 ppm 15 minutes. STEL: 50 mg/m ³ 15 minutes.
methanol	EU OEL (Europe, 10/2019). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 200 ppm 8 hours. TWA: 260 mg/m ³ 8 hours.
tetraethyl silicate	EU OEL (Europe, 10/2019). Notes: list of indicative occupational exposure limit values TWA: 5 ppm 8 hours. TWA: 44 mg/m ³ 8 hours.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof ventilation equipment. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn (see Personal protection). Provide a readily-accessible eyewash facility. Comply with the health and safety at work laws.

Individual protection measures

Eye/face protection : Wear eye/face protection (EN166).

Hand protection : Always wear approved protective gloves against chemicals. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
Recommended glove material (EN374):
> 8 hours (breakthrough time): nitrile rubber
Not recommended: PVA gloves

Skin protection : Wear suitable protective clothing. This product is classified as flammable. If necessary, personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.

- Respiratory protection** : If ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist. If ventilation during spray-application is inadequate, use respirators with combination filter AP, gas/dust filter (EN405:2001). Wear a half mask or full face respirator with gas and vapor filter A and dust filter P2 during sanding (EN140:1998, EN405:2001). During continuous and long-term work the use of motor-driven or air-fed respirators is recommended (EN12941:1998). Be sure to use an approved/certified respirator or equivalent. Check that mask fits tightly and change filter regularly.
- Environmental exposure controls** : For information regarding environmental protection measures, please refer to section 13 for waste handling, section 7 for handling and storage and section 1.2 for relevant identified uses of the substance or mixture and uses advised against.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : Clear.
- Odor** : Strong.
- Odor threshold** : Not relevant for the hazard assessment of the product.
- pH** : 7
- Melting point/freezing point** : 16.64°C (acetic acid)
- Initial boiling point and boiling range** : 117.9°C (acetic acid)
- Flash point** : Closed cup: 25°C
- Evaporation rate** : 1.34 (butyl acetate = 1) (acetic acid)
- Flammability (solid, gas)** : Not applicable. Product is a liquid.
- Upper/lower flammability or explosive limits** : Lower: 4% (acetic acid)
Upper: 19.9% (acetic acid)
- Vapor pressure** : 2.1 kPa [room temperature] (acetic acid)
- Vapor density** : 2.1 (acetic acid)
- Density** : 1 g/cm³
- Solubility(ies)** : Miscible in water.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Auto-ignition temperature** : 463°C (acetic acid)
- Decomposition temperature** : Not relevant for the hazard assessment of the product.
- Viscosity** : Not relevant for the hazard assessment of the product.
- Explosive properties** : No explosive ingredients present.
- Oxidizing properties** : No oxidizing ingredients present.

Particle characteristics

- Median particle size** : Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : See Section 10.5.
- 10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).
- 10.3 Possibility of hazardous reactions** : May present an explosion hazard when material is suspended in air in confined areas or equipment and subjected to spark, heat or flame.

10.4 Conditions to avoid : Avoid extreme heat and freezing. Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:
oxidizing agents
strong acids
strong alkalis

10.6 Hazardous decomposition products : When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

SECTION 11: Toxicological information

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

There is no testdata available on the product itself.

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Long term exposure causes irritation of respiratory system and mucous membranes of nose and throat. Prolonged contact can cause severe irritation or even burns. The liquid splashed in the eyes may cause irreversible damage.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Decamethylcyclotetrasiloxane	LD50 Oral	Rat	>24134 mg/kg	-
Octamethylcyclotetrasiloxane	LC50 Inhalation Vapor	Rat	36 g/m ³	4 hours

Not classified.

Irritation/Corrosion

Causes severe skin burns and eye damage.

Sensitization

Not classified.

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Teratogenicity

Not classified.

Specific target organ toxicity (single exposure)

May cause damage to organs.

Specific target organ toxicity (repeated exposure)

Not classified.

Aspiration hazard

Not classified.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not applicable.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

Ecological testing has not been conducted on this product.

The product is classified as environmentally hazardous according to Regulation (EC) 1272/2008.

Harmful to aquatic life with long lasting effects.

Do not allow to enter drains, water courses or soil.

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Octamethylcyclotetrasiloxane	Chronic NOEC 7.9 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 4.4 µg/l Fresh water	Fish - Oncorhynchus mykiss - Embryo	33 days

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Octamethylcyclotetrasiloxane	-	3.7 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Octamethylcyclotetrasiloxane	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	Bioconcentration factor [BCF]	Potential
Octamethylcyclotetrasiloxane	6.488	13400	high
decamethylcyclopentasiloxane	8.023	7060	high
tetraethyl silicate	3.18	-	low
ethanol	-0.35	-	low
methanol	-0.77	<10	low
acetic acid	-0.17	3.16	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
poly(dimethylsiloxane)	No	N/A	N/A	No	N/A	N/A	N/A
acetic acid	No	N/A	No	No	No	N/A	No
methanol	No	N/A	No	No	No	N/A	No
ethanol	No	N/A	N/A	No	N/A	N/A	N/A
tetraethyl silicate	No	N/A	N/A	No	N/A	N/A	N/A
decamethylcyclopentasiloxane	SVHC (Candidate)	Specified	Specified	Specified	SVHC (Candidate)	Specified	Specified
octamethylcyclotetrasiloxane	SVHC (Candidate)	Specified	Specified	Specified	SVHC (Candidate)	Specified	Specified

12.6 Endocrine disrupting properties : Not applicable.

12.7 Other adverse effects : Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : Remove as much product as possible from the tools before cleaning. Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Packaging

Methods of disposal : Empty packaging should be recycled or disposed of in accordance with national regulations.

Special precautions : No additional information.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	Paint related material
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	No.	No.	No.

Additional information

ADR/RID : **Hazard identification number** 33

Limited quantity 5 L

Special provisions 163, 640F, 650

Tunnel code (D/E)

IMDG : **Emergency schedules** F-E, S-E

Special provisions 163, 223, 955

IATA : **Quantity limitation** Passenger and Cargo Aircraft: 60 L.. Packaging instructions: 355. Cargo Aircraft Only: 220 L.. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L.. Packaging instructions: Y344.

Special provisions A3, A72

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Decamethylcyclotetrasiloxane; D5	PBT	Candidate	ED/61/2018	6/27/2018
octamethylcyclotetrasiloxane; D4	-	Candidate	ED/61/2018	6/27/2018
decamethylcyclotetrasiloxane; D5	vPvB	Candidate	ED/61/2018	6/27/2018
octamethylcyclotetrasiloxane; D4	-	Candidate	ED/61/2018	6/27/2018

Other EU regulations

Europe inventory : Not determined.

Persistent Organic Pollutants

Not listed.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Corr. 1A, H314	Calculation method
Eye Dam. 1, H318	Calculation method
STOT SE 2, H371	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

: H225 Highly flammable liquid and vapor.
 H226 Flammable liquid and vapor.
 H301 Toxic if swallowed.
 H311 Toxic in contact with skin.
 H331 Toxic if inhaled.
 H332 Harmful if inhaled.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H315 Causes skin irritation.
 H335 May cause respiratory irritation.
 H361f Suspected of damaging fertility.
 H370 Causes damage to organs.
 H371 May cause damage to organs.
 H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]	:	Acute Tox. 3	ACUTE TOXICITY - Category 3
		Acute Tox. 4	ACUTE TOXICITY - Category 4
		Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
		Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
		Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
		Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
		Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
		Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
		Repr. 2	TOXIC TO REPRODUCTION - Category 2
		Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
		Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
		STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
		STOT SE 2	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2
	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3	
Date of issue/ Date of revision	:	6/30/2022	
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Version	:	2	

Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 878/2020 to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.