

SAFETY DATA SHEET

(in accordance with (EU) Regulation 2015/830)



FAKOLITH[®]
chemical systems

Version: 1
Last change: 11/12/2020

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SECTION 1: DESIGNATION OF THE MIXTURE AND OF THE COMPANY.

1.1 Product identifier.

Product Name: SOLPUR FOODGRADE Thinner

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

Industrial use
Professional use
Dilutions

Uses advised against:

Uses other than recommended.

1.3 Details of the supplier providing the safety data sheet.

-Manufacturer/Supplier:

Company: **Fakolith Farben GmbH**
Address: Carl-Benz-Str. 19
Place: 64658 Fürth/Odw.
Phone: +49 (0) 6253/ 2394-0
Fax: +49 (0) 6253/ 2394-10

-Informing area:

Germany: Uwe Farenkopf (germany@fakolith.com)
49 (0) 6253 / 2394-0 Fax: +49 (0) 6253 / 2394-10

1.4 Telephone for emergencies:

Spain: +34 (0) 915 620 420
Germany: +49 (0) 61 31 19 240
Austria: +43 (0) 14 06 43 43
Switzerland: +41 (0) 44 25 15 151
Italy: +39 (0) 26 44 42 523

SECTION 2: POTENTIAL HAZARDS.

2.1 Classification of the mixture.

According to (EU) Regulation No. 1272/2008:
Flam. Liq. 3 : Flammable liquid and vapour.
STOT SE 3 : May cause drowsiness and dizziness.

2.2 Marking elements.

Labelling according to (EU) Regulation No 1272/2008:

Pictograms:



Signal word:
Attention

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H-phrases:

H226 Flammable liquid and vapor.
H336 May cause drowsiness and dizziness.

P phrases:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.
P261 Avoid breathing dust/fume/gas/mist/vapour/aerosol.
P370+P378 In case of fire: ... Use to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container ...

Additional Hazard Statements:

EUH066 Repetitive contact may cause skin dryness or cracking.

Includes:

n-butyl acetate

2.3 Other hazards.

Under normal conditions of use and in its original form, the product has no other negative effects on health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances that pose a risk to health or the environment according to Regulation (CE) No 1272/2008 have been assigned a limit at the workplace in the Community and are classified as PBT or vPvB or included in the candidate list:

Identifications	Name	Concentration	(*)Classification - Regulation 1272/2008	
			Classification	Specific concentration limits
Index No: 607-025-00-1 CAS No.: 123-86-4 EC No: 204-658-1 Registrierungsnummer: 01-2119485493-29-XXXX	n-butyl acetate	20 - 100 %	Flam. Liq. 3, H226 - STOT SE 3, H336	-

(*) The full text of the H-phrases is given in section 16 of this safety data sheet.

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or symptoms of indisposition, call for medical help. Never give substances or liquids of any kind to unconscious persons.

Inhale.

Injured persons should be brought into fresh air, kept warm and in a resting position. If breathing is irregular or stops, give mouth-to-mouth resuscitation. Do not administer drugs orally. Place unconscious persons in a suitable position and seek medical attention.

Contact with the eyes.

If necessary, remove contact lenses if it is easy to do. Flush eyes with plenty of clean, fresh water for at least 10 minutes, pulling eyelids up and seeking medical attention at first opportunity.

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Contact with the skin.

Remove contaminated clothing. Wash skin vigorously and thoroughly with soap and water or an appropriate skin cleanser. DO NOT use solvents or thinners under any circumstances.

Intake.

Seek immediate medical attention in case of accidental ingestion. Keep injured person in resting position. DO NOT cause vomiting under any circumstances.

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

Irritant product, repeated or prolonged contact with skin or mucous membranes may cause redness, blisters or dermatitis, inhalation of spray or airborne particles may cause respiratory irritation, some symptoms may be delayed.

4.3 Indication of immediate medical attention or special treatment.

In case of doubt or symptoms of indisposition, call for medical help. Never inject unconscious persons with substances or liquids of any kind. Cover the affected area with a sterile gauze dressing. Protect the affected area from pressure or friction.

SECTION 5: FIRE-FIGHTING MEASURES.

Flammable product, necessary precautions must be taken to avoid risks, in case of fire the following measures are recommended:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguishing powder or CO₂. For more severe fires also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct water jet for extinguishing. Do not use water or foam as an extinguishing agent in the presence of electrical voltage.

5.2 Special hazards arising from the mixture.

Special risks.

The fire may cause dense black smoke. Hazardous substances may be released as a result of thermal decomposition: Carbon monoxide, carbon dioxide. Exposure of the combustion or decomposition products is harmful to health.

During a fire and depending on its extension, the following may occur:

- Flammable vapours or gases

5.3 Advice for firefighters.

Cool tanks, storage containers or other containers in the direct vicinity of the heat source or fire with water. When doing so, take the wind direction into account. Ensure that the extinguishing agents used cannot run off into groundwater or waterways. Follow the instructions of the emergency and evacuation plan(s) in case of fire, if available.

Fire Protection Equipment.

Depending on the extent of the fire, it may be necessary to wear thermal protective suits, suitable breathing apparatus, gloves, goggles or face mask and boots. During firefighting operations, and depending on the size of the fire and proximity to it, additional protective equipment may be necessary, such as chemical gloves, heat-resistant or gas-tight suits.

SECTION 6: ACTION TO BE TAKEN IN THE EVENT OF IMPROPER RELEASE.

6.1 Personal precautions, protective equipment and emergency procedures.

Remove all possible sources of ignition and ventilate the entire area thoroughly. Do not smoke Do not breathe vapors under any circumstances. For exposure control and personal protection, see Section 8.

6.2 Environmental protection measures.

Contamination of runoff, surface or subsurface waters, and soil shall be avoided.

6.3 Methods and material for containment and cleaning up.

Absorb spilled substances with absorbent and non-flammable material (earth, sand, vermiculite, diatomaceous earth, etc.). Store product and absorbent material in a suitable container. Immediately clean the contaminated area with a suitable decontaminant. The decontamination agent is added to the waste and left to act in the unsealed container for several days until no further reactions occur.

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6.4 Reference to other sections.

For suspension control and personal protection measures, see inscription 8.

For the disposal of residual materials, follow the recommendations in Inscription 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

Vapour is heavier than air and spreads near the ground where it can form explosive mixtures with the air. Flammable or explosive concentrations of vapour with air should therefore be avoided. Concentrations in excess of the occupational exposure limits should also be avoided. The preparation may only be used in areas where no open flames or ignition points are present or expected. The electrical installation in these areas must be spark and explosion proof in accordance with the relevant regulations.

The preparation can become electrostatically charged. For this reason, the containers must always be grounded when decanting. Workers handling the preparation must wear antistatic footwear with conductive soles and antistatic work clothing.

All containers must be kept tightly closed at all times and kept away from heat sources, sparks and open flames. No spark-producing tools shall be used. For personal protection, see heading 8.

Do not smoke, eat or drink in the areas where the product is used.

The relevant regulations on safety and hygiene in the workplace must be complied with.

Never use pressure to empty the containers. The containers are not pressure vessels. Always keep the product in its original container.

7.2 Conditions for safe storage taking into account incompatibilities.

Storage in accordance with relevant local regulations. The instructions given on the label must be strictly observed. The containers can be stored in temperature ranges from 5 to 35 °C in dry and well ventilated rooms at a sufficient distance from heat sources and direct sunlight. Also ensure sufficient distance from all ignition points, propellant gas and strongly acidic or alkaline materials. Do not smoke. Access to the storage area by unauthorized persons must be prohibited. Opened containers must be carefully resealed and placed in an upright position to prevent leakage.

The product is not affected by the EU Directive 2012/18/EU (SEVESO III).

7.3 Specific end uses.

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT.

8.1 Parameters to be monitored.

The product does not contain substances OEL Occupational Exposure. The product does not contain any substances with biological limits.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
n-butyl acetate CAS No.: 123-86-4 EC No: 204-658-1	DNEL (Workers)	Inhalative, Long-term, Systemic effects	480 (mg/m ³)
	DNEL (General population)	Inhalative, Long-term, Systemic effects	102.34 (mg/m ³)
	DNEL (Workers)	Inhalative, Acute, Systemic effects	960 (mg/m ³)
	DNEL (General population)	Inhalative, Acute, Systemic effects	859.7 (mg/m ³)
	DNEL (Workers)	Inhalative, Long-term, Local effects	480 (mg/m ³)
	DNEL (General population)	Inhalative, Long-term, Local effects	102.34 (mg/m ³)
	DNEL (Workers)	Inhalative, Acute, Local effects	960 (mg/m ³)
	DNEL (General population)	Inhalative, Acute, Local effects	859.7 (mg/m ³)
	DNEL (General population)	Oral, Long-term, Systemic effects	3.4 (mg/kg bw/day)

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	DNEL (General population)	Dermal, Long-term, Systemic effects	3.4 (mg/kg bw/day)
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DNEL: Derived No Effect Level Measure of exposure to substances below which no adverse effects are predicted.

DMEL: Derived Minimal Effect Level, measure of exposure corresponding to a low risk that should be considered as a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
n-butyl acetate CAS No.: 123-86-4 EC No: 204-658-1	aqua (freshwater)	0.18 (mg/l)
	aqua (marine water)	0.018 (mg/l)
	aqua (intermittent releases)	0.36 (mg/l)
	STP	35.6 (mg/l)
	sediment (freshwater)	0,981 (mg/kg sediment dw)
	sediment (marine water)	0,0981 (mg/kg sediment dw)

PNEC: Predicted No Effect Concentration, concentration of the substance below which no harmful effects on the environment are expected.

8.2 Exposure controls.

Technical measures:

Provide adequate ventilation. Effective on-site exhaust/ventilation and an effective general exhaust system may be used for this purpose.

Concentration:	100 %
Uses:	Industrial use Professional use Dilutions
Respiratory protection:	
PPE:	Automatic or semi-automatic air supply device with mask
Features:	"CE" mark category III. The connection to the mask must be impermeable. All detachable connectors must be easily and securely interconnectable and if possible by hand. The visors must not distort the view and must not fog up, thus significantly reducing visibility. The total weight of the device shall not exceed 5 kg, of which no more than 1,5 kg shall be carried on the user's head.
CEN standards:	EN 137, EN 138, EN 402, EN 12941, EN 12942, EN 13794, EN 14435, EN 14593-1, EN 14593-2
Retention:	The materials used in the construction of the device must be able to withstand cleaning and disinfecting agents and the operations intended by the manufacturer. The anti-fogging agents must be compatible with the eyes, skin and equipment when used as intended.
Comments:	The device provides protection against solid or liquid aerosols, liquids of low volatility and self-decomposability, gases and vapours according to the manufacturer's specifications, or combinations thereof, when the appropriate particle filters, gas filters or combination filters are used. Follow the instructions for use in the manufacturer's information brochure.
Required filter type:	A2
Hand protection:	
PPE:	Work gloves
Features:	"CE" mark category I.
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420
Retention:	They must be stored in a dry place away from possible sources of heat and, if possible, not exposed to sunlight. The gloves must not be modified in any way that may affect their resistance, nor must they be painted, solved or glued.
Comments:	The gloves must be selected in a suitable size and fit neither too tightly nor too loosely on the hand. They must always be worn with clean and dry hands.



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Material:	Nitrile	Breakthrough time (min):	> 480	Material thickness (mm):	0,38
Material:	Chloroprene	Breakthrough time (min):	> 480	Material thickness (mm):	0,18
Protective measures for the eyes:					
PPE:	Full view safety goggles				
Features:	"CE" mark category II. Full vision goggles for protection against dust, smoke, mists and vapours.				
CEN standards:	EN 165, EN 166, EN 167, EN 168				
Retention:	Visibility through the lenses must be optimal, for which they must be cleaned daily. The protective device must be disinfected regularly according to the manufacturer's instructions.				
Comments:	Indications of wear can be: Yellowish discoloration of the lenses, scratches on the lens surface, fissures, etc.				
Protective measures for the skin:					
No personal protective equipment is required if the product is handled correctly.					

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Transparent liquid with characteristic odor

Colour: colourless

Odour: Characteristic

Odour threshold: N.V./N.A.

pH: N.V./N.A.

Melting point: N.V./N.A.

Boiling point: 126 °C

Flash point estimated: 27 °C

Evaporation rate: N.V./N.A.

Flammability (solid, gas): N.V./N.A.

Lower explosion limit: N.V./N.A.

Upper explosion limit: N.V./N.A.

Vapour pressure: 12.61

Density of vapour: N.V./N.A.

Relative density: 0.881

Solubility: N.V./N.A.

Fat solubility: N.V./N.A.

Water solubility: miscible

Partition factor (N-octanol / water): N.V./N.A.

Auto-ignition temperature: N.V./N.A.

Decomposition temperature: N.V./N.A.

Viscosity: N.V./N.A.

Explosion properties: N.V./N.A.

Combustion promoting properties: N.V./N.A.

N.V./N.A. = Not Available/Not Applicable due to the nature of the product.

9.2 Other information.

Stick Point: N.V./N.A.

Scintillation counter: N.V./N.A.

Kinematic viscosity: N.V./N.A.

N.V./N.A. = Not Available/Not Applicable due to the nature of the product.

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

If the storage conditions are fulfilled, no dangerous reactions take place.

10.2 Chemical stability.

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Stable under the recommended conditions for handling and storage (see section 7).

10.3 Possibility of hazardous reactions.

Flammable liquid and vapor.
Pyrolysis and dehydration may occur at high temperatures.

10.4 Conditions to avoid.

Avoid the following conditions:

- heating
- High temperatures
- Static discharges
- Contact with incompatible materials
- Avoid temperatures close to the burning point, do not heat in closed containers. Avoid direct sunlight and heating, fire hazard may result.

10.5 Incompatible materials.

Avoid the following materials:

- acids
- bases
- oxidizing agent
- Explosive substances
- Toxic substances
- Oxidizing substances

10.6 Hazardous decomposition products.

In case of fire, hazardous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide may be generated.

SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT MIXTURE. Inhalation of spray or airborne particles may cause respiratory irritation. In addition, severe breathing difficulties, changes in the central nervous system and, in extreme cases, unconsciousness may result.

11.1 Information on toxicological effects.

Frequent or prolonged contact with the product may lead to lipid depletion in the skin, subsequently to non-allergic contact dermatitis and thus to absorption of the product through the skin.

Splashes of the product in the eyes may cause irritation and repairable damage.

Toxicological information on the substances contained in the mixture.

Name	Acute toxicity			
	Type	Try	Art	Value
n-butyl acetate CAS No.: 123-86-4 EC No: 204-658-1	Oral	LD50	Council	10800 mg/kg bw [1]
		[1] Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 1, Pg. 196, 1992		
	Dermal	LD50	Rabbit	>17600 mg/kg bw [1]
[1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. vol. 1, pg. 7, 1974				
Inhalative	LC50	Council	1.85 mg/l/4 h [1]	
	[1] Inhalation Toxicology. Vol. 9, Pg. 623, 1997			

(a) acute toxicity,
No conclusive data for classification.

(b) Corrosive/irritant effect on the skin,
No conclusive data for classification.

(c) Serious eye damage/irritation,
No conclusive data for classification.

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(d) Respiratory/skin sensitisation,
No conclusive data for classification.

(e) germ cell mutagenicity,
No conclusive data for classification.

(f) carcinogenicity,
No conclusive data for classification.

(g) reproductive toxicity,
No conclusive data for classification.

(h) specific target organ toxicity at single exposure,
Classified Product:
Toxicity in specific target organs after single exposure, category 3:

(i) specific target organ toxicity in case of repeated exposure,
No conclusive data for classification.

j) Aspiration hazard.
No conclusive data for classification.

SECTION 12: ENVIRONMENTAL DISCLOSURES.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Try	Art	Value
n-butyl acetate	Fish	LC50	Fish	81 mg/l (96 h) [1]
		[1] Wellens, H. 1982. Comparison of the Sensitivity of Brachydanio rerio and Leuciscus idus by Testing the Fish Toxicity of Chemicals and Wastewaters. Z.Wasser-Abwasser-Forsch. 51(2):49-52 (GER) (ENG ABS). Dawson, G. W., A. L. Jennings, D. Drozdowski, and E. Rider 1977. The Acute Toxicity of 47 Industrial Chemicals to Fresh and Saltwater Fishes. J.Hazard.Mater. 1(4):303-318 (OECDG Data File).		
	Aquatic invertebrates	EC50	Daphnia sp.	44 mg/l (48 h) [1]
		[1] publication, 1959		
	Water plants	EC50	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	674.7 mg/l (72 h) [1]
CAS No.: 123-86-4 EC No: 204-658-1		[1] Method: other: algae growth inhibition test, according to Umweltbundesamt (German Federal Environment Agency) (proposal/draft, version February 1984)		

12.2 Persistence and degradability.

There is no information on the biodegradability of the substances present.
There is no information available on the degradability of the substances present. No information is available on the persistence and degradability of the product.

12.3 Bioaccumulative potential.

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Information on bioaccumulation of the substances contained.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Stage
n-butyl acetate CAS No.: 123-86-4 EC No: 204-658-1	1,78	-	-	Very low

12.4 Mobility in soil.

No information is available on mobility in soil.
Do not allow the substance to enter drains or waterways.
Penetration into the soil must be avoided.

12.5 Results of PBT and vPvB assessment.

No information is available on the PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available on harmful effects on the environment.

SECTION 13: DISPOSAL INSTRUCTIONS.

13.1 Waste treatment process.

Disposal into drains or waterways is not permitted. Waste products and contaminated containers must be disposed of in accordance with the relevant local/national regulations.
For the handling of residual materials, the instructions of Directive 2008/98/EC must be followed.

SECTION 14: TRANSPORT INFORMATION.

Transport in compliance with the following standards: ADR/TPC for land transport, RID for transport by rail, IMDG for sea freight and ICAO/IATA for air transport.

Country: Road transport: ADR, Rail transport: RID.
Transport documents: waybill and written instructions.

Sea: Marine transport: IMDG.
Transport documents: Sea waybill.

Air: Aircraft transport: IATA / ICAO.
Transport documents: Air waybill.

14.1 UN number.

UN No: UN1123

14.2 UN proper shipping name.

Description:
ADR: UN 1123, BUTYL ACETATE, 3, PG III, (D/E)
IMDG: UN 1123, BUTYL ACETATE, 3, PG III
ICAO/IATA: UN 1123, BUTYL ACETATE, 3, PG III

14.3 Transport hazard classes.

Class(es): 3

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Sea contamination: No

14.6 Special precautions for the user.

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Hazard number: 30

ADR LQ: 5 L

IMDG LQ: 5 L

ICAO LQ: 10 L

Regulations regarding the transport of large quantities according to the ADR: Transport in large quantities not authorised according to the ADR.

Ship transport, FEm - Emergency signs (F - fire, S - spillage): F-E,S-D

Proceed according to point 6.

14.7 Carriage in bulk in accordance with Annex II of MARPOL and the IBC Code.

The product is not affected by shipping in bulk.

SECTION 15: LEGISLATION.

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

The product is not affected by Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of EU Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by the EU Regulation No. 528/2012 on the provision on the market and the use of organic products.

The product is not affected by the procedures established by EU Regulation No. 649/2012 for the export and import of hazardous chemicals.

Pollutant class for water (Germany): WGK 1: slightly hazardous for water. (Self-assessment according to the AwSV regulation).

15.2 Chemical Safety Assessment.

No evaluation of the chemical safety of the product has been performed.

SECTION 16: OTHER INFORMATION.

Full text of H- sentences appearing in paragraph 3:

H226 Flammable liquid and vapor.
H336 May cause drowsiness and dizziness.

Classification codes:

Flam. Liq. 3 : Flammable liquid, category 3

STOT SE 3 : Toxicity in specific target organs after single exposure, Category 3

For the correct handling of the product, it is recommended to carry out basic training on safety and hygiene in the workplace.

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AwSV: Ordinance on installations for handling substances hazardous to water.

BCF: Bioconcentration factor.

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- CEN: European Committee for Standardization.
DMEL: Derived Minimal Effect Level, measure of exposure corresponding to a low risk that is considered to be a tolerable minimum should be considered.
DNEL: Derived No Effect Level, (derived concentration by which no effect occurs) Measure of the Exposure to substances below which no adverse effects are foreseen.
EC50: Average effective concentration.
PPE: Personal security equipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Code for Dangerous Goods.
LC50: Lethal concentration, 50 %.
LD50: Lethal dose, 50 %.
Log Pow: Logarithm of the octanol/water partition coefficient.
NOEC: No Observed Effect Concentration (highest tested concentration with no observed adverse effect).
PNEC: Predicted No Effect Concentration, concentration of the substance below which no harmful effects can be expected.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
WGK: Water hazard classes.

Key references and data sources:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information provided in this safety data sheet has been prepared in accordance with 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93, Commission Regulation (EC) No 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information contained in this safety data sheet is based on the current state of knowledge and the relevant national and EU legislation at the time of printing, while the working conditions at the place of use are beyond our knowledge and control. The product must not be used for purposes other than those expressly stated without prior and written instructions on its handling. Consequently, it is the user's sole responsibility to take measures to comply with the legal requirements.