Sicherheitsdatenblatt

Produkt:	TA4630
Hersteller:	PERMABOND ENGINEERING ADHESIVES
Warengruppe:	KLEBSTOFF
Artikelgruppe:	ACRYLAT
Download:	28.03.2024

PERMABOND TA4630B

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SAFETY DATA SHEET
Permabond TA4630B

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

1.1. Product identifier

Product name Permabond TA4630B

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

Identified uses Adhesive.

1.3. Details of the supplier of the safety data sheet

Supplier

Permabond Engineering Adhesives Ltd.
Wessex Way
Colden Common
Winchester
Hampshire SO21 1WP
United Kingdom
Tel: +44 (0)1962 711 661
Fax: +44 (0)1962 711 662
info.europe@permabond.com

1.4. Emergency telephone number

Emergency telephone CHEMTREC UK: +(44)-870-8200418 CHEMTREC US: 800-424-9300 (CCN: 829878)

National emergency telephone number

CHEMTREC Ireland: +(353)-19014670
CHEMTREC Australia: +(61)-290372994
CHEMTREC New Zealand: +(64)-98010034

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

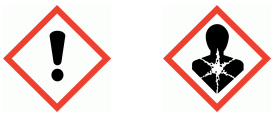
Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Repr. 1B - H360D

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H360D May damage the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Permabond TA4630B

Precautionary statements	P202 Do not handle until all safety precautions have been read and understood. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352a 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. P308+P313 IF exposed or concerned: Get medical advice/ attention.
Contains	TETRAHYDROFURFURYL METHACRYLATE, 2-ETHYLHEXYL METHACRYLATE, TRIETHYLBORANE-1,3-DIAMINOPROPANE COMPLEX
Supplementary precautionary statements	P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with existing Community, National and local regulations.

2.3. Other hazards

None under normal conditions.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TETRAHYDROFURFURYL METHACRYLATE **60-100%**

CAS number: 2455-24-5 EC number: 219-529-5 REACH registration number: 01-2120748481-53-XXXX

Classification
Skin Sens. 1 - H317
Repr. 1B - H360D
Aquatic Chronic 3 - H412

2-ETHYLHEXYL METHACRYLATE **5-10%**

CAS number: 688-84-6 EC number: 211-708-6 REACH registration number: 01-2119490166-35-XXXX

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
STOT SE 3 - H335
Aquatic Chronic 3 - H412

Permabond TA4630B

TRIETHYLBORANE-1,3-DIAMINOPROPANE COMPLEX	1-5%
CAS number: 148861-07-8	
REACH registration exemption – < 1 tonne	

Classification
Acute Tox. 4 - H312
Skin Corr. 1A - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317

2-DIMETHYLAMINOETHYL METHACRYLATE		<1%
CAS number: 2867-47-2	EC number: 220-688-8	REACH registration number: 01-2119474677-22-XXXX

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1B - H317

METHYL METHACRYLATE		<1%
CAS number: 80-62-6	EC number: 201-297-1	REACH registration number: 01-2119452498-28-XXXX

Classification
Flam. Liq. 2 - H225
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
STOT SE 3 - H335

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move the exposed person to fresh air. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention.

Skin contact Remove contaminated clothing. Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention

Eye contact Remove any contact lenses and open eyelids wide apart. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Skin contact Skin irritation. Mild dermatitis, allergic skin rash.

Eye contact Irritating and may cause redness and pain.

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

Permabond TA4630B

Notes for the doctor No specific recommendations. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Foam, carbon dioxide or dry powder.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons. Oxides of nitrogen.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Not considered to be a significant hazard due to the small quantities used. Avoid discharge into drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for disposal.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes. Do not ingest or inhale. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in closed original container at temperatures between 5°C and 25°C. Never return unused material to storage receptacle.

7.3. Specific end use(s)

Usage description Adhesive.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

METHYL METHACRYLATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m³
Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m³
WEL = Workplace Exposure Limit.

Permabond TA4630B

TETRAHYDROFURFURYL METHACRYLATE (CAS: 2455-24-5)

DNEL

Workers - Inhalation; Long term systemic effects: 3.53 mg/m³
Workers - Dermal; Long term systemic effects: 1 mg/kg/day

PNEC

Fresh water; 0.347 mg/l
marine water; 0.035 mg/l
Sediment (Freshwater); 2.12 mg/kg
Sediment (Marinewater); 0.212 mg/kg
Soil; 0.221 mg/kg
STP; 15.8 mg/l

2-ETHYLHEXYL METHACRYLATE (CAS: 688-84-6)

DNEL

Workers - Inhalation; Long term systemic effects: 2.5 mg/m³
Workers, Industry/Professional - Dermal; Long term : 5 mg/kg/day

PNEC

Fresh water; 0.003 mg/l
marine water; 0 mg/l
STP; 10 mg/l
Sediment (Freshwater); 2.24 mg/kg
Sediment (Marinewater); 0.224 mg/kg
Soil; 0.446 mg/kg

METHYL METHACRYLATE (CAS: 80-62-6)

DNEL

Workers, Industry/Professional - Inhalation; Long term : 208 mg/m³
Workers, Industry/Professional - Dermal; Long term : 13.67 mg/kg/day
Workers, Industry/Professional - Inhalation; Short term : 416 mg/m³

PNEC

Workers, Industry/Professional - Water; Long term <0.94 mg/l

TRIMETHYLENEDIAMINE (CAS: 109-76-2)

DNEL

Workers - Inhalation; Long term systemic effects: 3 mg/m³
Workers - Dermal; Long term systemic effects: 0.26 mg/kg/day

PNEC

Fresh water; 0.2 mg/l
marine water; 0.02 mg/l
STP; 10 mg/l
Sediment (Freshwater); 96 mg/kg
Sediment (Marinewater); 9.6 mg/kg
Soil; 19 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield. Personal eye protection should conform to EN 166

Permabond TA4630B

Hand protection	It is recommended that chemical-resistant, impervious gloves are worn. Gloves should conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.4 mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.4 mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.
Other skin and body protection	Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Use of good industrial hygiene practices is required.
Respiratory protection	Ensure adequate ventilation of the working area. Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Organic vapour filter. Type A. (EN14387)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Translucent.
Odour	Acrylic
Odour threshold	Not available.
pH	Not relevant.
Melting point	Not available.
Initial boiling point and range	Not applicable.
Flash point	>100°C
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.0
Solubility(ies)	Slightly soluble in water. Miscible with the following materials: Organic solvents.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	≈12000 mPa s @ 25°C
Explosive properties	Not determined.

Permabond TA4630B

Oxidising properties Not available.

9.2. Other information

Other information Not relevant.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Strong oxidising agents.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions There are no known reactivity hazards associated with this product.

10.4. Conditions to avoid

Conditions to avoid Stable at normal ambient temperatures and when used as recommended.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Skin sensitisation

Skin sensitisation May cause sensitisation by skin contact.

Reproductive toxicity

Reproductive toxicity - development May damage the unborn child.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin contact Prolonged and frequent contact may cause redness and irritation.

Eye contact Irritating to eyes.

Toxicological information on ingredients.

Permabond TA4630B

TETRAHYDROFURFURYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	4,000.0
Species	Rat

Skin corrosion/irritation

Skin corrosion/irritation	Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Not irritating.

Skin sensitisation

Skin sensitisation	Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Negative.

Carcinogenicity

Carcinogenicity	No specific test data are available.

Reproductive toxicity

Reproductive toxicity - fertility	Screening - NOAEL 120 mg/kg/day, Oral, Rat F1

Specific target organ toxicity - single exposure

STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEL 300 mg/kg, Oral, Rat

Aspiration hazard

Aspiration hazard	Based on available data the classification criteria are not met.

2-ETHYLHEXYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	2,000.1
Species	Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	No information available.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	No information available.

Skin corrosion/irritation

Human skin model test	Not irritating.

Serious eye damage/irritation

Permabond TA4630B

Serious eye damage/irritation	Not irritating.
Skin sensitisation	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Chromosome aberration: Negative.
Carcinogenicity	
Carcinogenicity	NOAEC >=2.05 mg/l, Inhalation, Rat
Reproductive toxicity	
Reproductive toxicity - fertility	Screening - NOAEL 300 mg/kg/day, Oral, Rat F1
Reproductive toxicity - development	Developmental toxicity: - LOAEL: 1000 mg/kg/day, Oral, Rat
Specific target organ toxicity - single exposure	
STOT - single exposure	Not available.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not available.
Aspiration hazard	
Aspiration hazard	Not available.

2-DIMETHYLAMINOETHYL METHACRYLATE

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	2,000.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rat
Skin corrosion/irritation	
Skin corrosion/irritation	Corrosive to skin.
Serious eye damage/irritation	
Serious eye damage/irritation	Corrosive Possible risk of irreversible effects.
Skin sensitisation	
Skin sensitisation	Sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
Carcinogenicity	

Permabond TA4630B

Carcinogenicity	No specific test data are available.
Aspiration hazard	
Aspiration hazard	Not applicable.

METHYL METHACRYLATE

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD_{50} mg/kg)	5,000.0
Species	Rat
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} vapours mg/l)	29.8
Species	Rat
Skin corrosion/irritation	
Skin corrosion/irritation	Not irritating. Prolonged skin contact may cause temporary irritation.
Serious eye damage/irritation	
Serious eye damage/irritation	Not irritating.
Respiratory sensitisation	
Respiratory sensitisation	Mouse: Sensitising.
Skin sensitisation	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Inconclusive.
Genotoxicity - in vivo	This substance has no evidence of mutagenic properties.
Carcinogenicity	
Carcinogenicity	CMR: no
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	
Reproductive toxicity - fertility	No evidence of reproductive toxicity in animal studies.
Reproductive toxicity - development	No evidence of reproductive toxicity in animal studies. non-teratogenic, not embryotoxic
Specific target organ toxicity - single exposure	
Target organs	Respiratory tract Irritation.

Permabond TA4630B

Specific target organ toxicity - repeated exposure

Target organs No specific target organs known.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects. Avoid release to the environment.

12.1. Toxicity

Toxicity The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Ecological information on ingredients.

TETRAHYDROFURFURYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish LC_{50}, 96 hours: 34.7 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic plants EC_{50}, 72 hours: >100 mg/l, Desmodesmus subspicatus
NOEC, 72 hours: >100 mg/l, Desmodesmus subspicatus

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 37.2 mg/l, Daphnia magna

2-ETHYLHEXYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish EC_{50}, 96 hours: 2.78 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 4.56 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC_{50}, 72 hours: 7.68 mg/l, Selenastrum capricornutum
NOEC, 72 hours: 0.28 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms NOEC, 28 days: 100 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.11 mg/l, Daphnia magna

2-DIMETHYLAMINOETHYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish LC_{50}, 96 hours: 19.1 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 33 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC_{50}, 72 hours: 69.7 mg/l, Selenastrum capricornutum

Permabond TA4630B

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 4.35 mg/l, Daphnia magna

METHYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: > 79 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 69 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEC, 72 hours: > 110 mg/l, Selenastrum capricornutum EC_{50}, 72 hours: > 100 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{20}, 30 minutes: 150 - 200 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOEC, 35 days: 9.4 mg/l, Danio rerio (Zebrafish)
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 37 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

TETRAHYDROFURFURYL METHACRYLATE

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- 75%: 28 days

2-ETHYLHEXYL METHACRYLATE

Biodegradation	Water - Degradation 88%: 28 days

2-DIMETHYLAMINOETHYL METHACRYLATE

Persistence and degradability	The product is readily biodegradable.

METHYL METHACRYLATE

Biodegradation	Water - Degradation 94%: 14 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

12.4. Mobility in soil

Mobility No data available.

Permabond TA4630B

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste disposal should be in accordance with existing Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

Disposal methods Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Waste class 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances.

SECTION 14: Transport information

General The product is not classified as dangerous for carriage.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

Permabond TA4630B

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). 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)
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date	28/10/2020
Revision	2
Supersedes date	23/07/2020
Hazard statements in full	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H360D May damage the unborn child. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.