

# Safety data sheet

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BASF Safety data sheet

Date / Revised: 08.11.2018

Product: **21-11 1L 2K Plastic Primer VOC**

Version: 3.0

(30373033/SDS\_GEN\_NZ/EN)

Date of print 21.01.2020

## 1. Substance/preparation and manufacturer/supplier identification

### 21-11 1L 2K Plastic Primer VOC

Manufacturer/supplier:

BASF New Zealand Ltd.  
Regus Auckland Airport  
Level 1, Quad 7, 6 Leonard Isitt Drive  
PO Box 407 Shortland Street, Auckland 2022  
NEW ZEALAND  
Telephone: +64 9 255-4300  
Telefax number: +64 9 255-4307

Emergency information:

National Poisons Centre: 0800 764 766  
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)  
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

## 2. Hazard identification

Classification of the substance and mixture:

Skin corrosion/irritation: Cat. 2

Serious eye damage/eye irritation: Cat. 2A

Skin sensitization: Cat. 1A

Specific target organ toxicity — repeated exposure: Cat. 2

Hazardous to the aquatic environment - acute: Cat. 3

Hazardous to the aquatic environment - chronic: Cat. 3

Flammable liquids: Cat. 3

Label elements and precautionary statement:

Pictogram:



Signal Word:  
Warning

Hazard Statement:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264	Wash with plenty of water and soap thoroughly after handling.
P242	Use only non-sparking tools.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P243	Take action to prevent static discharges.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P260	Do not breathe dust or mist.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P363	Wash contaminated clothing before reuse.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P321	Specific treatment (see on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.

Precautionary Statements (Storage):

P403 + P235	Store in a well-ventilated place. Keep cool.
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Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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### 3. Composition/information on ingredients

#### Chemical nature

acrylic resin, fillers, polyether, polyolefin, organic solvent, pigment

#### Hazardous ingredients

##### 1,2,4-trimethylbenzene

Content (W/W):  $\geq 1\%$  -  $< 2\%$   
 CAS Number: 95-63-6

Flam. Liq.: Cat. 3  
 Acute Tox.: Cat. 4 (Inhalation - vapour)  
 Acute Tox.: Cat. 5 (oral)  
 Skin Corr./Irrit.: Cat. 2  
 Eye Dam./Irrit.: Cat. 2A  
 STOT SE: Cat. 3 (irr. to respiratory syst.)  
 Aquatic Acute: Cat. 2  
 Aquatic Chronic: Cat. 2

##### ethylbenzene

Content (W/W):  $\geq 2.5\%$  -  $< 3\%$   
 CAS Number: 100-41-4

Asp. Tox.: Cat. 1  
 Flam. Liq.: Cat. 2  
 Acute Tox.: Cat. 4 (Inhalation - vapour)  
 Acute Tox.: Cat. 5 (oral)  
 STOT RE (Auditory organ): Cat. 2  
 Aquatic Acute: Cat. 2  
 Aquatic Chronic: Cat. 3

##### 2-butoxyethyl acetate

Content (W/W):  $\geq 3\%$  -  $< 5\%$   
 CAS Number: 112-07-2

Flam. Liq.: Cat. 4  
 Acute Tox.: Cat. 4 (oral)  
 Acute Tox.: Cat. 4 (dermal)  
 Aquatic Acute: Cat. 3

##### n-Butyl acetate

Content (W/W):  $\geq 10\%$  -  $< 12.5\%$   
 CAS Number: 123-86-4

Flam. Liq.: Cat. 3  
 STOT SE: Cat. 3 (drowsiness and dizziness)  
 Aquatic Acute: Cat. 3

##### xylene

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<p>Content (W/W): <math>\geq 12.5\%</math> - <math>&lt; 15\%</math>          CAS Number: 1330-20-7</p>	<p>Asp. Tox.: Cat. 1          Flam. Liq.: Cat. 3          Acute Tox.: Cat. 5 (Inhalation - vapour)          Acute Tox.: Cat. 5 (oral)          Skin Corr./Irrit.: Cat. 2          Eye Dam./Irrit.: Cat. 2B          STOT SE: Cat. 3 (irr. to respiratory syst.)          STOT RE (Central nervous system, Liver, Kidney): Cat. 2          Aquatic Acute: Cat. 2          Aquatic Chronic: Cat. 3</p>
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<p>Solvent naphtha (petroleum), light arom.          Content (W/W): <math>\geq 2\%</math> - <math>&lt; 2.5\%</math>          CAS Number: 64742-95-6</p>	<p>Asp. Tox.: Cat. 1          Flam. Liq.: Cat. 1          Skin Corr./Irrit.: Cat. 2          STOT SE: Cat. 3 (drowsiness and dizziness)          Aquatic Acute: Cat. 2          Aquatic Chronic: Cat. 2</p>
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<p>maleic anhydride          Content (W/W): <math>\geq 0\%</math> - <math>&lt; 0.1\%</math>          CAS Number: 108-31-6</p>	<p>Acute Tox.: Cat. 4 (oral)          Skin Corr./Irrit.: Cat. 1B          Eye Dam./Irrit.: Cat. 1          Resp. Sens.: Cat. 1          Skin Sens.: Cat. 1A          STOT RE (Respiratory system): Cat. 1 (by inhalation)          Aquatic Acute: Cat. 3</p>
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<p>p-tert-butylphenyl 1-(2,3-epoxy)propyl ether          Content (W/W): <math>\geq 0.2\%</math> - <math>&lt; 0.3\%</math>          CAS Number: 3101-60-8</p>	<p>Skin Corr./Irrit.: Cat. 2          Skin Sens.: Cat. 1          Aquatic Chronic: Cat. 2</p>
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#### 4. First-Aid Measures

##### General advice:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

##### If inhaled:

Remove affected person from danger area. Keep warm, calm and covered up. If breathing is irregular or stopped, administer artificial respiration. Seek medical assistance. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).

##### On skin contact:

Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes:

Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution. Seek medical assistance.

On ingestion:

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

Note to physician:

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Treatment: No data available.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

Foam (alcohol resistant), carbon dioxide, powders, water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire.

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## 6. Accidental Release Measures

Personal precautions:

Keep away from sources of ignition. Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Ensure adequate ventilation. Avoid breathing vapours.

Environmental precautions:

Do not allow to enter drains or waterways. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

Methods for cleaning up or taking up:

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents.

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## 7. Handling and Storage

### Handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Avoid inhalation of dust from sanding. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. Keep container dry and tightly closed in a cool well-ventilated place. Avoid all sources of ignition: heat, sparks, open flame. Do not use any sparking tools.

Avoid contact with skin and eyes. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist.

### Storage

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Electrical equipment must be explosion-proof to the appropriate standard. Floors must be of conducting type and impermeable to the materials being stored. Keep container tightly closed. Never use pressure to empty; container is not a pressure vessel. Close containers carefully once opened and store upright in order to prevent any leakage. No smoking. Prevent unauthorized access. Detailed information can be gained from the relevant technical data sheets. Always keep in containers of same material as the original one. Observe label precautions. Store in a dry, well ventilated place. Protect from direct sunlight. Keep away from sources of ignition. Keep away from heat.

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

1,2,4-trimethylbenzene, 95-63-6;  
TWA value 25 ppm (ACGIHTLV)  
TWA value 123 mg/m<sup>3</sup> ; 25 ppm (OEL (NZ))

ethylbenzene, 100-41-4;  
TWA value 20 ppm (ACGIHTLV)  
STEL value 543 mg/m<sup>3</sup> ; 125 ppm (OEL (NZ))  
TWA value 434 mg/m<sup>3</sup> ; 100 ppm (OEL (NZ))

n-Butyl acetate, 123-86-4;

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STEL value 150 ppm (ACGIHTLV)  
TWA value 50 ppm (ACGIHTLV)  
TWA value 713 mg/m<sup>3</sup> ; 150 ppm (OEL (NZ))  
STEL value 950 mg/m<sup>3</sup> ; 200 ppm (OEL (NZ))

xylene, 1330-20-7;

TWA value 100 ppm (ACGIHTLV)  
STEL value 150 ppm (ACGIHTLV)  
TWA value 217 mg/m<sup>3</sup> ; 50 ppm (OEL (NZ))

Solvent naphtha (petroleum), light arom., 64742-95-6;

maleic anhydride, 108-31-6;

TWA value 0.01 mg/m<sup>3</sup> (ACGIHTLV), Inhalable fraction and vapor  
TWA value 1.0 mg/m<sup>3</sup> ; 0.25 ppm (OEL (NZ))

#### Personal protective equipment

##### Respiratory protection:

Respiratory protection not required. When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet (sanding/ flatting) should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Use A1P2 breathing-protection half mask in case of contact with aerosols.

##### Hand protection:

Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties). Follow manufacturer's advice on use, storage, maintenance and replacement of gloves. The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream). Wear protective gloves. Any chemical protection glove certified according to EN 374 is suitable: e.g. nitrile gloves - material thickness: 1,25 mm

##### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166), Required when there is a risk of eye contact.

##### Body protection:

chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

##### General safety and hygiene measures:

The country-specific occupational exposure limits applicable to the substances specified in section 3 must be taken into account. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

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## 9. Physical and Chemical Properties

Form:	liquid
Colour:	grey
Odour:	specific
pH value:	not applicable
onset of boiling:	124.00 °C
Flash point:	24 °C
Flammability (solid/gas):	not applicable
Lower explosion limit:	36 g/m <sup>3</sup>
Vapour pressure:	13.00 hPa (20 °C)
Density:	1.229 g/cm <sup>3</sup> (20 °C)
Miscibility with water:	immiscible
Viscosity, kinematic:	195.5 mm <sup>2</sup> /s (20 °C)
Flow time:	> 30 s (DIN EN ISO 2431; 6 mm)

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## 10. Stability and Reactivity

Conditions to avoid:  
Avoid all sources of ignition: heat, sparks, open flame.

Substances to avoid:  
Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermic reactions.

Hazardous reactions:  
No hazardous reactions if stored and handled as prescribed/indicated.  
The product is stable if stored and handled as prescribed/indicated.

In case of fire may produce hydrogen halide vapours., When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced.

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## 11. Toxicological Information

### Acute toxicity



**Assessment of acute toxicity:**

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Based on available Data, the classification criteria are not met.

**Information on: ethylbenzene**

Experimental/calculated data:

LD50 rat (oral): 3,500 mg/kg

Literature data.

**Information on: 2-butoxyethyl acetate**

Experimental/calculated data:

LD50 rat (oral): approx. 1,880 mg/kg (OECD Guideline 401)

**Information on: xylene**

Experimental/calculated data:

LD50 rat (oral): 3,523 mg/kg (similar to OECD guideline 401)

**Information on: maleic anhydride**

Experimental/calculated data:

LD50 rat (oral): 1,090 mg/kg (OECD Guideline 401)

**Information on: ethylbenzene**

Experimental/calculated data:

LD50 rabbit (dermal): 15,354 mg/kg

Literature data.

**Information on: 2-butoxyethyl acetate**

Experimental/calculated data:

LD50 rabbit (dermal): approx. 1,500 mg/kg

**Information on: maleic anhydride**

Experimental/calculated data:

LD50 rabbit (dermal): 2,620 mg/kg

Literature data.

**Irritation****Assessment of irritating effects:**

Eye contact causes irritation. Skin contact causes irritation.

The liquid splashed in the eyes may cause irritation and reversible damage.

### **Respiratory/Skin sensitization**

Assessment of sensitization:  
Sensitization after skin contact possible.

### **Germ cell mutagenicity**

Assessment of mutagenicity:  
Based on available Data, the classification criteria are not met.

### **Carcinogenicity**

Assessment of carcinogenicity:  
Based on available Data, the classification criteria are not met.

### **Reproductive toxicity**

Assessment of reproduction toxicity:  
Based on available Data, the classification criteria are not met.

### **Developmental toxicity**

Assessment of teratogenicity:  
Based on available Data, the classification criteria are not met.

### **Specific target organ toxicity (single exposure):**

Assessment of STOT single:  
Based on available Data, the classification criteria are not met.

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:  
Repeated exposure may affect certain organs.

### **Aspiration hazard**

No aspiration hazard expected.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:  
Harmful to aquatic life. Harmful to aquatic life with long lasting effects. There are no test results available for this product. Do not allow to enter drains or waterways.

### **Mobility**

Assessment transport between environmental compartments:

No data available.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

Biological degradability of hazardous substances mentioned in section 3:

Information on: 1,2,4-trimethylbenzene

Elimination information:

< 20 % BOD of the ThOD (28 d) (OECD 301C; ISO 9408; 92/69/EEC, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C))

Literature data.

Information on: ethylbenzene

Elimination information:

70 - 80 % TIC of the ThIC (28 d) (ISO 14593) (aerobic, activated sludge) Readily biodegradable (according to OECD criteria).

Information on: 2-butoxyethyl acetate

Elimination information:

88 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic)

Information on: n-Butyl acetate

Elimination information:

80 % BOD of the ThOD (5 d) (OECD 301D; EEC 92/69, C.4-E) (aerobic, municipal sewage treatment plant effluent)

Information on: xylene

Elimination information:

87.8 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic, non-adapted)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified

Elimination information:

77 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic, non-adapted)

96 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (ISO 14593) (aerobic, activated sludge, domestic, adapted)

Information on: maleic anhydride

Elimination information:

93 % DOC reduction (21 d) (OECD 301E/92/69/EEC, C.4-B) (aerobic, activated sludge, domestic, non-adapted) Readily biodegradable (according to OECD criteria).

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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### **Bioaccumulation potential**

Bioaccumulation potential:

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No data available.

### Additional information

Add. remarks environm. fate & pathway:  
The product contains organic halogen compounds which may contribute to the AOX value.

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## 13. Disposal Considerations

Observe national and local legal requirements.

Contaminated packaging:  
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.  
Dispose of in accordance with national, state and local regulations.

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## 14. Transport Information

### Domestic transport:

Packing group: III  
ID number: UN 1263  
Transport hazard class(es): 3  
Proper shipping name: PAINT

### Further information

Hazchem Code:3Y  
IERG Number:14

### Sea transport

IMDG

Packing group: III  
ID number: UN 1263  
Transport hazard class(es): 3  
Marine pollutant: NO  
Proper shipping name: PAINT

### Air transport

IATA/ICAO

Packing group: III  
ID number: UN 1263  
Transport hazard class(es): 3  
Proper shipping name: PAINT

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## 15. Regulatory Information

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### **Other regulations**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

HSNO Approval Number HSR002662  
Surface Coatings and Colourants (Flammable) Group Standard 2017  
HSNO Classification: 3.1C 6.3A 6.4A 6.5B 6.9B 9.1C

A certified handler is not required for the handling of this substance.

Tracking requirements do not apply to this substance.

### **Registration status:**

NZIOC, NZ                      released / listed

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## **16. Other Information**

Recommended use: Sprayable

For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.