



# MATERIAL SAFETY DATA SHEET

## TRIROOF ACRYLIC ROOF COATING

<b>Product Name:</b>	<b>TriRoof Acrylic Roof Coating</b> <b>1121326 Rev.3</b>
<b>Revision Date:</b>	25-Mar-2022 <b>According to Regulation (EC) No. 1907/2006</b>

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product Identifier

**Product Name:** TriRoof Acrylic Roof Coating  
**Chemical Name:** Polyol

#### 1.2. Product relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. 1.2.1. Relevant identified uses

**Main use category:** Industrial use, Professional use, Consumer use  
**Use of substance/mixture:** Paint

##### 1.2.2. 1.2.2. Uses advised against

**Uses advised against:** No additional information available

## 1.3. Details of the supplier of the safety data sheet

### Tricel Composites (GB) Limited

Unit A, Foxway,  
Off Atkinson Street,  
Leeds, West Yorkshire,  
LS10 1PS.  
Tel: +44 (0)113 270 3133

### Tricel Composites (NI) Limited

Unit 4, Milltown Ind. Estate, Greenan  
Road. Warrenpoint, Newry  
Co. Down,  
BT34 3FN.  
Tel: +44 (0)284 175 3738

## 1.4. Emergency Telephone Number

**Emergency medical information:** 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Telephone Number: +353 (0)1 809 2166

Leeds:	Newry:
Tel: +44 (0)113 270 3133	Tel: +44 (0)284 175 3738

### 1.4.1. Poison Information Centre Telephone Number

**European** emergency phone number: 112

**UK:** National Poisons Emergency Number : 0344 892 0111

**Ireland:** National Poisons Information Centre (NPIC) Telephone Healthcare Professionals : +353 (01) 809 2566. (24 hour service) Telephone Members of Public: +353 (01) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

## 2. Hazards Identification

### 2.1. Classification of the substance or mixture

Classification of the substance or mixture – GHS/CLP (n° 1272/2008)

Flammable liquids, Category 3	H226
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):



Signal Word: Warning

**Contains:** HYDROCARBONS, C9, Aromatics, NAPHTHA (PETROLEUM),  
HYDROTREATED HEAVY: LOW BOILING POINT HYDROGEN

## 2.2.1. Hazard Statements (CLP)

- H226 – Flammable liquid and vapour.
- H335 – May cause respiratory irritation.
- H336 – May cause drowsiness or dizziness.
- H411 – Toxic to aquatic life with long lasting effects.

## 2.2.2. Precautionary Statements (CLP)

- P102 – Keep out of reach of children.
- P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 – Keep container tightly closed.
- P241 – Use explosion-proof electrical/ventilating/lighting equipment.
- P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271 – Use only outdoors or in a well-ventilated area.
- P273 – Avoid release to the environment.
- P280 – Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
- P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 – Call a POISON CENTRE or doctor if you feel unwell.
- P370+P378 – In case of fire: Use media other than water to extinguish.
- P391 – Collect spillage.
- P403+P233 – Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 – Store in a well-ventilated place. Keep cool.
- P405 – Store locked up.

- P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 2.2.3. Additional EU H-Phrases

- EUH211 – Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

## 2.3. Other hazards

- Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## 3. Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CALCIUM CARBONATE substance with national workplace exposure limit(s) (GB)	CAS-No.: 1317-65-3 EC-No.: 215-279-6	15-25	Not classified
HYDROCARBONS, C9, Aromatics	EC-No.: 918-668-5 REACH-no: 01-2119455851-35	10-25	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335

			Asp. Tox. 1, H304 Aquatic Chronic 2, H411 (M=0)
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY: LOW BOILING POINT HYDROGEN substance with a Community workplace exposure limit	CAS-No.: 64742-48-9 EC-No.: 265-150-3 EC Index-No.: 649-327-00-6 REACH-no: 01-2119486659-16	10- 20	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Titanium Dioxide substance with national workplace exposure limit(s) (GB)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-002	1-5	Not classified Full text of H- and EUH- statements: see section 16

## 4. First Aid Measures

### 4.1. Description of first aid measures

**First-aid measures general:** IF exposed or concerned: Get medical advice/attention.  
Never give anything by mouth to an unconscious person.

**First-aid measures after inhalation:** Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Give oxygen or artificial respiration if necessary.

**First-aid measures after skin contact:** Take off contaminated clothing. Gently wash with plenty of soap and water.

**First-aid measures after eye contact:** Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water. Get medical advice/attention.

**First-aid measures after ingestion:** If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

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

**Symptoms/effects after inhalation:** May cause respiratory irritation.

**Symptoms/effects after skin contact:** May cause moderate irritation.

**Symptoms/effects after eye contact:** May cause eye irritation.

**Symptoms/effects after ingestion:** May be harmful if swallowed.

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

Treat symptomatically.

## 5. Firefighting Measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water spray.

**Unsuitable extinguishing media:** Do not use a heavy water stream.

## 5.2. Special hazards arising from the substance or mixture

**Explosion hazard:** Heating may cause a fire or explosion.

**Hazardous decomposition products in case of fire:** Carbon dioxide. Carbon monoxide.

## 5.3. Advice for Firefighters

**Firefighting instructions:** Do not enter fire area without proper protective equipment, including respiratory protection.

Evacuate area. Get the package away from the fire if this can be done without risk.  
Use water spray or fog for cooling exposed containers.

**Protection during firefighting :** Use self-contained breathing apparatus and chemically protective clothing. Wear fire/flame resistant/retardant clothing. EN 469.

## 6. Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

**Protective equipment:** Wear recommended personal protective equipment.



**Emergency procedures:** Act in accordance with local emergency plan. Evacuate unnecessary personnel. Do not touch or walk on the spilled product. Notify fire brigade and environmental authorities.

6.1.2. For emergency responders

**Protective equipment:** Do not attempt to take action without suitable protective equipment.

## 6.2. Environmental Precautions

Do not allow product to spread into the environment. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

## 6.3. Methods and Material for Containment and Cleaning Up

**For containment:** Contain large spillage with sand or earth.

**Methods for cleaning up:** This material and its container must be disposed of in a safe way, and as per local legislation.

## 6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

## 7. Handling and Storage

### 7.1. Precautions for safe handling

**Additional hazards when processed:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Precautions for safe handling:** Avoid contact with skin and eyes. Use personal protective equipment as required. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.

**Hygiene measures:** Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. Wear personal protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a well-ventilated place. Keep cool. Keep container closed when not in use. Direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Incompatible products:** Oxidizing agent. Strong bases. Strong acids.

## 8. Exposure Controls/Personal Protection

### 8.1. Control Parameters

National occupational exposure and biological limit values

**Titanium Dioxide (13463-67-7)**

United Kingdom - Occupational Exposure Limits

**Local name** Titanium dioxide

**WEL TWA (OEL TWA) [1]** 4 mg/m<sup>3</sup> respirable  
10 mg/m<sup>3</sup> total inhalable

**Regulatory reference** EH40/2005 (Fourth edition, 2020). HSE

## **CALCIUM CARBONATE (1317-65-3)**

United Kingdom - Occupational Exposure Limits

**Local name** Calcium carbonate (Limestone, Marble)

**WEL TWA (OEL TWA) [1]** 4 mg/m<sup>3</sup> respirable  
10 mg/m<sup>3</sup> total inhalable

**Regulatory reference** EH40/2005 (Fourth edition, 2020). HSE

Recommended monitoring procedures

No additional information available

Air contaminants formed

No additional information available

DNEL and PNEC

No additional information available

Control banding

No additional information available

## **8.2. Exposure Controls**

### **8.2.1. Appropriate engineering controls**

**Appropriate engineering controls:** Ensure that there is a suitable ventilation system. Provide adequate ventilation to minimize dust concentrations.

## 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



## 8.2.3. Eye and face protection

**Eye protection:** Chemical goggles or safety glasses

## 8.2.4. Skin protection

**Skin and body protection:** Chemical resistant safety shoes

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)			EN 374-3

## 8.2.5. Respiratory protection

**Respiratory protection:** Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Respiratory protection			
Device	Filter type	Condition	Standard
Disposable half mask	Type P2	Dust protection	EN 143

## 8.2.6. Environmental exposure controls

**Environmental exposure controls:** Do not exceed the occupational exposure limits (OEL). Avoid creating or spreading dust.

## 9. Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Grey
Odour:	No data available
Odour threshold:	No data available
pH:	No data available
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Density:	> 1.2 g/cm <sup>3</sup>
Solubility:	No data available
Partition coefficient n-octanol/water (Log Pow):	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Explosive limits:	No data available

## 9.2. Other information

**VOC content:** EU Limit value for this product (cat.A/i): 500g/l (2010). This product contains max. 499g/l VOC

## 10. Stability and Reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

None under normal use.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

### 10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

## 10.6. Hazardous decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological Information

### 11.1. Information on toxicological effects

<b>Acute toxicity (oral):</b>	Not classified
<b>Acute toxicity (dermal):</b>	Not classified
<b>Acute toxicity (inhalation):</b>	Not classified

HYDROCARBONS, C9, Aromatics	
LD50 dermal rabbit	> 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 6.193 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY: LOW BOILING POINT HYDROGEN (64742-48-9)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)

Titanium Dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Titanium Dioxide (13463-67-7)	
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LC50 Inhalation - Rat (Dust/Mist)	> 6.8 mg/l/4h
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CALCIUM CARBONATE (1317-65-3)	
LD50 oral rat	> 5000 mg/kg

<b>Skin corrosion/irritation:</b>	Not classified
<b>Serious eye damage/irritation:</b>	Not classified
<b>Respiratory or skin sensitisation:</b>	Not classified
<b>Germ cell mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive toxicity:</b>	Not classified
<b>STOT-single exposure:</b>	May cause drowsiness or dizziness. May cause respiratory irritation.

HYDROCARBONS, C9, Aromatics	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY: LOW BOILING POINT HYDROGEN (64742-48-9)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.

<b>STOT-repeated exposure:</b>	Not classified
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HYDROCARBONS, C9, Aromatics	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

<b>Aspiration hazard:</b>	Not classified
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## 12. Ecological Information

### 12.1. Toxicity

**Hazardous to the aquatic environment, short-term (acute):** Not classified

**Hazardous to the aquatic environment, long-term (chronic):** Toxic to aquatic life with long lasting effects.

Not rapidly degradable

HYDROCARBONS, C9, Aromatics	
LC50 - Fish [1]	9.2 mg/l
EC50 - Crustacea [1]	3.2
EC50 72h - Algae [1]	2.9 mg/l
EC50 72h - Algae [2]	0.29 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic crustacea	2.14 mg/l 21 days

Titanium Dioxide (13463-67-7)	
LC50 - Fish [1]	> 10000 mg/l
EC50 - Crustacea [1]	> 10000 mg/l
EC50 - Crustacea [2]	27.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

CALCIUM CARBONATE (1317-65-3)	
LC50 - Fish [1]	> 10000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l
EC50 72h - Algae [1]	> 200 mg/l

## 12.2. Persistence and Degradability

HYDROCARBONS, C9, Aromatics	
Biodegradation	78 % 28 days

## 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in Soil

No additional information available

## 12.5. Results in PBT and vPvB Assessment

No additional information available

## 12.6. Other Adverse Effects

No additional information available

## 13. Disposal Considerations

### 13.1. Waste treatment methods






**Waste treatment methods:** Must follow special treatment according to local regulation.

**Product/Packaging disposal recommendations:** Dispose in a safe manner in accordance with local/national regulations.

## 14. Transport Information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 1263	UN 1263	UN 1263	UN 1263	UN 1263
<b>14.2. UN proper shipping name</b>				
PAINT	PAINT	Paint	PAINT	PAINT
Transport document description				
UN 1263 PAINT, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1263 PAINT, 3, III, MARINE POLLUTANT/ ENVIRONMENTALLY HAZARDOUS	UN 1263 Paint, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes No supplementary information available	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

## 14.6. Special precautions for user

### 14.6.1. Overland transport

Classification code (ADR):	F1
Special provisions (ADR):	163, 367, 650
Limited quantities (ADR):	5I
Excepted quantities (ADR):	E1
Packing instructions (ADR):	P001, IBC03, LP01, R001
Special packing provisions (ADR):	PP1
Mixed packing provisions (ADR):	MP19
Portable tank and bulk container instructions (ADR):	T2

Portable tank and bulk container special provisions (ADR): TP1, TP29

Tank code (ADR): LGBF

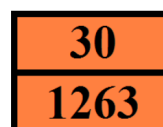
Vehicle for tank carriage: FL

Transport category (ADR): 3

Special provisions for carriage - Packages (ADR): V12

Special provisions for carriage - Operation (ADR): S2

Hazard identification number (Kemler No.): 30



Orange plates:

Tunnel restriction code (ADR): D/E

EAC code: •3YE

## 14.6.2. Transport by sea

Special provisions (IMDG): 163, 223, 367, 955

Limited quantities (IMDG): 5 L

Excepted quantities (IMDG): E1

Packing instructions (IMDG): P001, LP01

Special packing provisions (IMDG): PP1

IBC packing instructions (IMDG): IBC03

Tank instructions (IMDG): T2

Tank special provisions (IMDG): TP1, TP29

EmS-No. (Fire): F-E

EmS-No. (Spillage): S-E

Stowage category (IMDG): A

Properties and observations (IMDG): Miscibility with water depends upon the composition.

## 14.6.3. Air transport

PCA Excepted quantities (IATA): E1

PCA Limited quantities (IATA): Y344



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PCA limited quantity max net quantity (IATA):	10L
PCA packing instructions (IATA):	355
PCA max net quantity (IATA):	60L
CAO packing instructions (IATA):	366
CAO max net quantity (IATA):	220L
Special provisions (IATA):	A3, A72, A192
ERG code (IATA):	3L

## 14.6.4. Inland waterway transport

Classification code (ADN):	F1
Special provisions (ADN):	163, 367, 650
Limited quantities (ADN):	5 L
Excepted quantities (ADN):	E1
Equipment required (ADN):	PP, EX, A
Ventilation (ADN):	VE01
Number of blue cones/lights (ADN):	0

## 14.6.5. Rail transport

Classification code (RID):	F1
Special provisions (RID):	163, 367, 650
Limited quantities (RID):	5L
Excepted quantities (RID):	E1
Packing instructions (RID):	P001, IBC03, LP01, R001
Special packing provisions (RID):	PP1
Mixed packing provisions (RID):	MP19
Portable tank and bulk container instructions (RID: T2)	
Portable tank and bulk container special provisions (RID):	TP1, TP29
Tank codes for RID tanks (RID):	LGBF

Transport category (RID):	3
Special provisions for carriage – Packages (RID):	W12
Colis express (express parcels) (RID):	CE4
Hazard identification number (RID):	30

14.6.6. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## 15. Regulatory Information

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

#### 15.1.1. EU-Regulations

- Contains no REACH substances with Annex XVII restrictions
- Contains no substance on the REACH candidate list
- Organic solvent
- Contains no REACH Annex XIV substances
- Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.
- Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants
- Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

- Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.
- VOC content: EU Limit value for this product (cat.A/i): 500g/l (2010). This product contains max. 499g/l VOC
- Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

## 15.1.2. National regulations

- No additional information available

## 15.2. Chemical safety assessment

No additional information available

## 16. Other Information

Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.





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H411	Toxic to aquatic life with long lasting effects.
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

## Disclaimer

*The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.*

**End of Safety Data Sheet**



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