

ROTOSTAR UV 166 014 SILVER FLEXO INK

Version 8.0

Revision Date 30.01.2024

Print Date 01.02.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : ROTOSTAR UV 166 014 SILVER FLEXO INK
Material number : 023411U20M1

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH
Guentersthal 4
91235 Hartenstein
Telephone : +499152770
Telefax : +499152777008
E-mail address : msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number**NCEC:**

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification**GHS Classification**

: Serious eye damage/eye irritation, Category 2A, H319
Skin sensitisation, Category 1, H317
Reproductive toxicity, Category 2, H361d

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Short-term (acute) aquatic hazard, Category 3, H402
Long-term (chronic) aquatic hazard, Category 2, H411

GHS-Labelling

Symbol(s)

:



Signal word

:

Warning

Hazard statements

:

H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H361d: Suspected of damaging the unborn child.
H402: Harmful to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

:

Prevention:

P203 Obtain, read and follow all safety instructions before use.
P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of 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.
P318 IF exposed or concerned, get medical advice.
P333 + P317 If skin irritation or rash occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.
P391 Collect spillage.

Storage:

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P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label

Identification	CAS-No.
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	28961-43-5
Bisphenol A epoxy acrylate	55818-57-0
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	6846-50-0
2-Propenoic acid, ester with C12-16-alkyl glycidyl ether	68071-40-9
Glycerol, propoxylated, esters with acrylic acid	52408-84-1

SECTION 3: Composition/information on ingredients

Substance No. :

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	28961-43-5	;2A;H319 Skin Sens.;1;H317 Aquatic Chronic;3;H412	50 - 100

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Bisphenol A epoxy acrylate	55818-57-0	Skin Sens.;1;H317 Aquatic Chronic;2;H411	10 - 20
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7 282-810-6	Skin Sens.;1;H317 Aquatic Chronic;2;H411	10 - 20
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	1 - 10
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	6846-50-0 229-934-9	Repr.;2;H361d Aquatic Chronic;3;H412	2,5 - 10
2-Propenoic acid, ester with C12-16-alkyl glycidyl ether	68071-40-9	Skin Sens.;1A;H317	1 - 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	;2A;H319 Skin Sens.;1;H317	1 - 10
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5	;2A;H319 Skin Sens.;1;H317	0,1 - 1
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,25 - 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures**4.1 Description of first aid measures**

General advice	: Move the victim to fresh air. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Remove to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: Wash off immediately with soap and plenty of water.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Dry sand, ABC powder, Foam

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Unsuitable extinguishing media : High volume water jet, Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Evacuate personnel to safe areas.
Use personal protective equipment.

6.2 Environmental precautions

General advice : The product should not be allowed to enter drains, water courses or the soil.
Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

This information is not available.

6.3 Methods and materials for containment and cleaning up

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Methods for cleaning up : Use mechanical handling equipment.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

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Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Protect from humidity and water.

Advice on common storage : Do not store near acids. Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Bisphenol A epoxy acrylate	55818-57-0	AGW (Inhalable fraction)	10 mg/m ³	2020-03-30	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Bisphenol A epoxy	55818-57-0	AGW (Alveolate fraction)	1,25 mg/m ³	2020-03-30	DE TRGS 900

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acrylate					
Peak-limit: excursion factor (category)	2;(II)				
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
2,6-di-tert-butyl-p-cresol	128-37-0	AGW (Vapour and aerosols, inhalable fraction)	10 mg/m3	2012-09-13	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)				
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).Sum of vapor and aerosols.When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	TWA (Respirable)	5 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2012-07-01	
aluminium	7429-90-5	TWA (total)	10 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (respirable)	5 mg/m3	2012-07-01	

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		fraction)			
aluminium	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26	
aluminium	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2008-01-01	
aluminium	7429-90-5	TWA	5 mg/m3	2005-09-01	
aluminium	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (Respirable fraction)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01	
aluminium	7429-90-5	TWA (Total dust)	15 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (respirable dust fraction)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (welding fumes)	5 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (pyro powders)	5 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2013-03-01	
aluminium	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	PEL (Welding fumes)	5 mg/m3	2017-10-02	
aluminium	7429-90-5	PEL (Pyro powders)	5 mg/m3	2017-10-02	
aluminium	7429-90-5	TWA (powder)	5 mg/m3	1989-01-19	

8.2 Exposure controls

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Personal protective equipment

- Eye protection : Goggles
: Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Hand protection
- Material : Solvent-resistant gloves (butyl-rubber)
- Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
The exact break through time can be obtained from the protective glove producer and this has to be observed.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Recommended preventive skin protection
Skin should be washed after contact.
The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use suitable breathing protection if workplace concentration requires.

Environmental exposure controls

- General advice : The product should not be allowed to enter drains, water courses or the soil.
: Prevent product from entering drains.

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Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: liquid
Colour	: silver
Odour	: characteristic
pH	: substance/mixture is non-soluble (in water)
Melting point/range	: Not applicable
Boiling point/boiling range	: > 100 °C
Flash point	: > 100 °C
Bulk density	: No data available
Flammability (solid, gas)	: No data available
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: 1,1 g/cm ³
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available

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Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	: Contact with acids and alkalis may release hydrogen.
	No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid	: Do not allow evaporation to dryness.
	No data available

10.5 Incompatible materials

Materials to avoid	: Acids
	Bases
	Oxidizing agents

10.6 Hazardous decomposition products

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Other information : No data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Components:****ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate :**

Acute oral toxicity : Rat: > 5 000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : Rat: > 2 000 mg/kg

Method: OECD Test Guideline 402

2,6-di-tert-butyl-p-cresol :

Acute oral toxicity : LD50 Rat: > 5 000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Rat: > 5 000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation**Product**

May cause skin irritation and/or dermatitis.

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Serious eye damage/eye irritation**Product**

May cause irreversible eye damage.

Respiratory or skin sensitisation**Product**

Causes sensitisation.

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

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Further information**Product**

No data available

SECTION 12: Ecological information**12.1 Toxicity****Components:**

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (28961-43-5) :

Ecotoxicology Assessment

Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

Bisphenol A epoxy acrylate (55818-57-0) :

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (84434-11-7) :

Ecotoxicology Assessment

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0) :

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 2,46 mg/l

Ecotoxicology Assessment

Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

2,6-di-tert-butyl-p-cresol (128-37-0) :

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M-Factor : 1

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life., Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information**14.1 UN number****ADR** : 3082**TDG**

Not dangerous goods

CFR

Not dangerous goods

IMDG : 3082**IATA** : 3082**14.2 Proper shipping name****ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Bisphenol A Epoxy resin)**TDG**

Not dangerous goods

CFR

Not dangerous goods

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.

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IATA

(Bisphenol A Epoxy resin)

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.

(Bisphenol A Epoxy resin)

14.3 Transport hazard class**ADR** : 9**TDG**

Not dangerous goods

CFR

Not dangerous goods

IMDG : 9**IATA** : 9**14.4 Packing group****ADR**

Packaging group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (-)

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Packaging group : III

Labels : 9

EmS Code : F-A, S-F

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IATA

Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packaging group : III
Labels : 9

14.5 Environmental hazards

ADR : Environmentally hazardous
IMDG : Marine pollutant

14.6 Special precautions for user

For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable
REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
Regulation (EC) No 1005/2009 on substances that : Not applicable

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deplete the ozone layer

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

: Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

:

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

: Banned and/or restricted
 (Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1))
 (Bisphenol A epoxy acrylate)
 (ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate)
 (aluminium powder (stabilised))
 (1-isopropyl-2,2-dimethyltrimethylene diisobutyrate)
 (Glycerol, propoxylated, esters with acrylic acid)
 (Propylidynetrimethanol, ethoxylated, esters with acrylic acid)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information**Full text of H-Statements**

H228 : Flammable solid.
 H317 : May cause an allergic skin reaction.
 H319 : Causes serious eye irritation.
 H361d : Suspected of damaging the unborn child.
 H400 : Very toxic to aquatic life.
 H402 : Harmful to aquatic life.

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H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

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.