



APESIN HANDACTIVE F

WM 0714909

Order number: 0714909

Version 3.12

Revision Date 23.01.2023

Print Date 05.02.2023

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

1.1 Product identifier

Trade name : APESIN HANDACTIVE F
UFI : M4Q2-C03J-000W-AXG1

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

Use of the Substance/Mixture : Biocidal product
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Tana Chemie GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196403
Telefax : +4961319642414
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person
Contact person : Product development / product safety

1.4 Emergency telephone number

112
Centru za kontrolu otrovanja u Zagrebu na tel. (01) 2348 342
+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1 H318: Causes serious eye damage.

Specific target organ toxicity - single exposure, Category 3, Central nervous system H336: May cause drowsiness or dizziness.

2.2 Label elements

Safety data sheet available on request.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components



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Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 40 - < 50
propan-1-ol	71-23-8 200-746-9 603-003-00-0 01-2119486761-29	Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336	>= 25 - < 40

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Protect unharmed eye.
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : corrosive effects
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam



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Water spray jet
Dry powder

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.
- Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Use water spray to cool unopened containers. 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations.
Vapours can accumulate in low areas.

6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application



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area.
Take precautionary measures against static discharges.
Container may be opened only under exhaust ventilation hood.
Open drum carefully as content may be under pressure.
To avoid spills during handling keep bottle on a metal tray.

Advice on protection against fire and explosion : Use explosion-proof equipment. Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. 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 : Store in original container. 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. Electrical installations / working materials must comply with the technological safety standards. Store at room temperature in the original container.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Biocidal product

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye protection : not required under normal use
If splashes are likely to occur, wear:
Tightly fitting safety goggles

If splashes are likely to occur, wear:
Tightly fitting safety goggles

Hand protection
Material : not required under normal use

Material : For prolonged or repeated contact use protective gloves.
It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

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).



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Skin and body protection : not required under normal use

Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
ABEK-P3-filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : alcohol-like

Odour Threshold : No data available

pH : ca. 5,4, 1 %
at 20 °C

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : 23 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Burning rate : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : ca. 0,852 g/cm³ at 20 °C

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-
octanol/water : No data available

Ignition temperature : No data available

Thermal decomposition : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available



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Oxidizing properties : No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No decomposition if used as directed.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Our company is strongly against animal testing.
Our company does not place any orders for animal testing for the finished product or the ingredients.
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

Acute toxicity

Acute toxicity : Not Rated

Components:

propan-2-ol

67-63-0:

Acute oral toxicity : LD50 Oral (Rat): 5.840 mg/kg
Method: OECD Test Guideline 401

LD50 Oral (Rat): 4.570 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 47,5 mg/l
Exposure time: 8 h



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Method: OECD Test Guideline 403

LC50 (Rat): 72,6 mg/l
Exposure time: 4 h

LC50 (Mouse): 27,2 mg/l
Exposure time: 4 h

LC50 (Rat): 25 mg/l
Exposure time: 6 h
Method: OECD Test Guideline 403

LC50 (Rat): 30 mg/l
Exposure time: 4 h

LC50 (Rat): 10000 ppm
Exposure time: 6 h

Acute dermal toxicity : LD50 (Rabbit): 12.800 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 12.870 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 13.900 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 13.400 mg/kg

propan-1-ol

71-23-8:

Acute oral toxicity : LD50 Oral (Rat): 1.870 mg/kg
LD50 (Rat): ca. 8.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 33,8 mg/l
Exposure time: 4 h

LC50 (Rat): 39,1 mg/l
Exposure time: 1 h

Acute dermal toxicity : LD50 (Rabbit): 4.000 - 10.000 mg/kg
LD50 (Rabbit): 4.032 mg/kg

Skin corrosion/irritation

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Components:

propan-2-ol

67-63-0:

Species : Rabbit
Result : No skin irritation



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propan-1-ol

71-23-8:

Result : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.

Components:

propan-2-ol

67-63-0:

Species : Rabbit
Result : irritating

Respiratory or skin sensitisation

Product:

Remarks : No data available

Components:

propan-2-ol

67-63-0:

Test Type : Buehler Test
Species : Guinea pig
Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Germ cell mutagenicity : Not Rated

Components:

propan-2-ol

67-63-0:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

propan-1-ol

71-23-8:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated



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- STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Aspiration toxicity : Not Rated

11.2 Information on other hazards

Further information

Product:

- Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

67-63-0:

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.400 mg/l
Exposure time: 96 h
- LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l
Exposure time: 96 h
- LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
GLP: no
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13.299 mg/l
Exposure time: 48 h
- EC50 (Daphnia magna (Water flea)): 9.714 mg/l
Exposure time: 24 h
- EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
GLP: no
- (Daphnia (water flea)): > 10.000 mg/l
Method: OECD Test Guideline 202
- NOEC (Daphnia magna (Water flea)): 30 mg/l
Exposure time: 21 d



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- EC50 (*Daphnia magna* (Water flea)): 10.000 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : IC50 (*Desmodesmus subspicatus* (green algae)): > 1.000 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
- EC50 (*Pseudokirchneriella subcapitata* (microalgae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
GLP: no
- ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 1.000 mg/l
Exposure time: 72 h
- EC50 (*Scenedesmus subspicatus*): > 100 mg/l
Exposure time: 72 h
Test Type: static test
- Toxicity to microorganisms : EC50 (*Aliivibrio fischeri*): 17.700 mg/l
Exposure time: 5 min
- EC10 (*Pseudomonas putida*): 5.175 mg/l
Exposure time: 18 h
Method: DIN 38412
- 71-23-8:**
- Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 4.555 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 3.644 mg/l
Exposure time: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.
- EC50 (*Daphnia magna* (Water flea)): 3.640 - 8.150 mg/l
Exposure time: 48 h
- Toxicity to microorganisms : EC50 (*Photobacterium phosphoreum*): 17,7 g/l
Exposure time: 5 min
- EC0 (*Pseudomonas putida*): 2.700 mg/l
Exposure time: 16 h
- IC50 (Bacteria): > 10.000 mg/l
Exposure time: 16 h
- EC0 (see user defined free text): 3.100 mg/l



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12.2 Persistence and degradability

Components:

67-63-0:

Biodegradability : Result: rapidly biodegradable
Biodegradation: 95 %
Exposure time: 21 d
Method: OECD 301 E

Inoculum: activated sludge
Result: rapidly biodegradable
Biodegradation: 53 %
Exposure time: 5 d

Result: rapidly biodegradable
Biodegradation: > 70 %
Exposure time: 10 d
GLP: no

Biodegradation: 99,9 %
Method: see user defined free text

Chemical Oxygen Demand (COD) : 2,32 g/kg

ThOD : 2,40 g/g

71-23-8:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 20 d
Method: Closed Bottle test

Result: rapidly biodegradable
Biodegradation: 83 %
Exposure time: 5 d
Method: OECD 301 D

Result: rapidly biodegradable
Biodegradation: 83 - 92 %
Exposure time: 28 d
Method: OECD 301 F

Chemical Oxygen Demand (COD) : 2,23 g/g

ThOD : 2,4 g/g

12.3 Bioaccumulative potential

Components:

67-63-0:



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Bioaccumulation : Bioconcentration factor (BCF): 3
Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 0,05

71-23-8:

Bioaccumulation : Bioconcentration factor (BCF): 3

Partition coefficient: n-octanol/water : log Pow: 0,26

12.4 Mobility in soil

Components:

67-63-0:

Distribution among environmental compartments : Koc: 25
Remarks: Highly mobile in soils

71-23-8:

Distribution among environmental compartments : Koc: 33
Remarks: Highly mobile in soils

12.5 Results of PBT and vPvB assessment

Components:

67-63-0:

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.



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In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADR : 1987
IMDG : 1987
IATA : 1987

14.2 Proper shipping name

ADR : ALCOHOLS, N.O.S.
(isopropanol)
IMDG : ALCOHOLS, N.O.S.
(isopropanol)
IATA : ALCOHOLS, N.O.S.

14.3 Transport hazard class

ADR : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR
Classification Code : F1
Packaging group : III
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)
IMDG
Packaging group : III
Labels : 3
EmS Number : F-E, S-D
IATA
(Cargo) : ALCOHOLS, N.O.S., Alcohols, n.o.s.
Packaging group : III
Labels : 3

14.5 Environmental hazards

ADR
Environmentally hazardous : no
IMDG
Marine pollutant : no
IATA
Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation



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classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 000067	50.000 000067

TA Luft List (Germany) : Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapour or gaseous form: Not applicable
: Organic Substances: Not applicable
: Carcinogenic substances: Not applicable
: Mutagenic: Not applicable
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Update: Percent volatile: 75 %
804,34 g/l
VOC content excluding water

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Update: Percent volatile: 75 %
639 g/l
VOC content valid only for coating materials used on wood surfaces

according to Detergents Regulation EC 648/2004 : disinfectants

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Tana-Chemie GmbH
Werner & Mertz Group

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H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.

Full text of other abbreviations

Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Eye Dam. 1 H318
STOT SE 3 H336

Classification procedure:

Calculation method
Calculation method

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.

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