Platinum Professional

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758
According to REACH Regulation (EC) No 1907/2006.

Compilation date: 05/08/2024 **Revision:** -

1. Identification of the Substance/Preparation and of the Company/Undertaking

1.1. Product identifier

Product form: Mixture
Trade name: **Proquat Terminal Sanitiser**
Alternative Trade Name:
Product code: CHEMS-PROQUAT-10L

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

Use of the Substance/Mixture: Biocidal product

1.2.1. Relevant identified uses

Main use category: Industrial - For Professional Use Only
Function or use category: Washing and cleaning products.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company Name:
Platinum Professional (SW) Ltd.
Unit 12 Heathfield Business Park, Battle Road
Heathfield Industrial Estate
Newton Abbot, Devon
TQ12 6GJ
Tel: 01626 834560

1.4. Emergency telephone number:

UK Poisons Information Specialist National Poisons Information Service Birmingham B18 7QH
Tel: 0121 507 5122

R O Ireland National Poisons Information Centre Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin
+353 1 809 2566 (Healthcare professionals 24/7)
+353 1 809 2166 (public, 8am - 10pm, 7/7)

2. Hazards Identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

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2.1.2 Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label Elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP] and, Labelling according to Regulation (EC) No. 1272/2008 [CLP] and, as amended by GB-CLP Regulation, UK SI 2019/720

Hazard Pictograms (CLP):

Signal word (CLP):	DANGER
Hazard Statements (CLP):	H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
Precautionary Statements (CLP):	P260 Do not breathe mist or vapours. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:
Didecyldimethylammonium chloride
Isopropanol

2.3 Other Hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients:

Common Name	CAS No. / EC No.	Classification According to (EC) 1272/2008 (CLP)	Conc (%)
DIDECYL DIMETHYL AMMONIUM CHLORIDE	7173-51-5 230-525-2	Acute Tox. 3: H301 Skin Corr. 1B: H314 Eye Dam. 1; H318 Aquatic Acute 1: H400 Aquatic Chronic 2: H411	10 - 15
REACH registration number: 01-2119945987-15-XX XX			
ISOPROPANOL	67-63-0 200-661-7	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	1 - 5
REACH Reg. No: 01-2119457558-25-XXXX			

The full texts for all H- and EUH-phrases are displayed in Section 16 'Other Information'.

4. First-aid measures

4.1. Description of first aid measures

If inhaled: Move to fresh air. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control centre immediately. Keep respiratory tract clear.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If on clothes, remove clothes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Take victim immediately to hospital.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Continue rinsing eyes during transport to hospital. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

If swallowed: Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray Alcohol-resistant foam Dry chemical
Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Heating or fire can release toxic gas
Hazardous combustion products: Nitrogen oxides (NOx) Carbon oxides (Cox) Hydrogen chloride (HCl)

5.3 Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions: Use personal protective equipment. Use respirator when performing operations involving potential exposure to vapour of the product.

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: Neutralise with acid. 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.
For disposal considerations see section 1

7. Handling and storage

7.1 Precautions for safe handling
Advice on safe handling: Do not breathe vapours/dust. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion: Normal measures for preventive fire protection.
Hygiene measures: Wash hands before breaks and at the end of workday. Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers: Keep container tightly closed. Keep in a well-ventilated place. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do not store in heat or direct sunlight. To prevent leaks or spillages from spreading, provide a suitable liquid retention system.

Advice on common storage: Do not store near acids. Further information on storage stability: No decomposition if stored and applied as directed.

7.3 Specific end use(s) Specific use(s):
No information available.

8. Exposure controls / personal protection

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8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)		Control parameters	Basis
Didecyldimethylammonium chloride	7173-51-5				
		Workers	Inhalation	Long-term systemic effects	5.39 mg/m^3
		Workers	Inhalation	Acute systemic effects	5.39 mg/m^3
		Workers	Dermal	Long-term systemic effects	1.55 mg/kg
		Workers	Dermal	Acute systemic effects	1.55 mg/kg

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Didecyldimethylammonium chloride	Fresh water	0.002 mg/l
	Marine water	0.0002 mg/l
	Fresh water sediment	2.82 mg/kg
	Marine sediment	0.28 mg/kg
	Sewage treatment plant	0.595 mg/l
	Soil	1.4 mg/kg

8.2. Exposure controls

Personal protective equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166 Wear face-shield and protective suit for abnormal processing problems.

Hand protection: Material: Nitrile 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). Wear protective gloves. Break through time: > 480 min

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the workplace. Rubber or plastic apron Rubber or plastic boots

Respiratory protection: In the case of vapour formation use a respirator with an approved filter. Respirator with ABEK filter.

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9. Physical and chemical properties

Appearance: Colourless Liquid
Odour: Characteristic
pH (1000g/1): ca. 12.09
Melting point: 0°C
Boiling point: no data
Flash point: 68°C Method: closed cup GLP: yes
Evaporation rate: Not determined
Flammability: No data
Explosive properties: Non-Explosive
Oxidising properties: Non-Oxidising
Vapour pressure/density: Not determined
Relative density: ca. 1.05
Water solubility: high
Partition coefficient: Not determined
Auto ignition temperature: Not combustible
Decomposition temperature: Not determined
Viscosity: Not determined

10. Stability and reactivity

10.1 Reactivity No decomposition if stored and applied as directed.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions Hazardous reactions: Stable under recommended storage conditions.

10.4 Conditions to avoid Heat

10.5 Incompatible materials Materials to avoid: Oxidizing agents. Strong acids and strong bases

10.6 Hazardous decomposition products No decomposition if used as directed

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Acute toxicity	
Acute oral toxicity:	Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method
Acute inhalation toxicity:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity:	Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method
Skin corrosion/irritation	Assessment: Causes burns. Result: Corrosive after 3 minutes to 1 hour of exposure Remarks: Expert judgement
Serious eye damage/eye irritation	Species: Human Method: in vitro assay Assessment: Eye irritation
Respiratory or skin sensitisation	Remarks: No data available
Germ cell mutagenicity	
Genotoxicity in vitro:	Remarks: No data available
Carcinogenicity	Remarks: No data available
Reproductive toxicity	
Effects on fertility:	Remarks: No data available
STOT - single exposure	Remarks: No data available
STOT - repeated exposure	Remarks: No data available
Aspiration toxicity	No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information Remarks: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Remarks: Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine.

The following toxicological data refer to:

Didecyldimethylammonium chloride **(CAS-No.: 7173-51-5)**

Acute toxicity

Acute oral toxicity:	LD50 (Rat): 238 mg/kg
Method:	OECD Test Guideline 401 GLP: yes
Acute dermal toxicity:	LD50 (Rabbit, male and female): 3 342 mg/kg
Method:	US-EPA GLP: yes
Skin corrosion/irritation	Species: Rabbit Exposure time: 3 min Method: OECD Test Guideline 404 Result: Skin irritation

GLP: yes

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: Severe skin irritation
GLP: yes
Assessment: Causes burns.

Respiratory or skin sensitisation

Test Type: Buehler Test
Species: Guinea pig
Assessment: Did not cause sensitisation on laboratory animals.
Method: US-EPA
Result: not sensitizing
GLP: yes

Test Type: Buehler Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: not sensitizing

Germ cell mutagenicity

Genotoxicity in vitro:

Test Type: Ames test
Species: Salmonella typhimurium
Metabolic activation: yes
Method: OECD
Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Species: Chinese hamster ovary cells
Metabolic activation: yes
Result: negative
GLP: yes

Test Type: gene mutation test
Species: Chinese hamster ovary cells
Metabolic activation: yes
Result: negative
GLP: yes

Genotoxicity in vivo:

Test Type: Chromosome aberration test in vivo
Species: Rat Application
Route: Oral Dose: 600 mg/kg
Method: OECD
Test Guideline 475
Result: negative
GLP: yes

Reproductive toxicity

Effects on fertility: Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish: Remarks: No data available.

12.2 Persistence and degradability
Biodegradability : Remarks: No data available.

12.3 Bioaccumulative potential
Bioaccumulation : Remarks: No data available

12.4 Mobility in soil
Distribution among environmental compartments:
Remarks: No data available

12.5 Results of PBT and vPvB assessment
Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
Additional ecological information: No data available

The following ecotoxicological data refers to:

Didecyldimethylammonium chloride (CAS-No.: 7173-51-5)

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 0.19 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Method: US-EPA
GLP: yes

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): 0.062 mg/l
Exposure time: 48 h
Test Type: Immobilization
Analytical monitoring: yes
Method: EPA-FIFRA
GLP: yes

NOEC (Daphnia magna (Water flea)): 0.014 mg/l
Exposure time: 21 d
Remarks: Geometric mean of multiple studies of equivalent relevance/quality (EU Active Substance Assessment Report, June 2015).

Toxicity to algae: ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.026 mg/l
Exposure time: 96 h
Test Type: Growth inhibition
Analytical monitoring: yes
Method: OECD
Test Guideline 201
GLP: yes

M-Factor (Short-term (acute) aquatic hazard): 10

Toxicity to fish (Chronic toxicity): NOEC: 0.032 mg/l
Exposure time: 34 d
Species: Danio rerio (zebra fish)
Analytical monitoring: yes
Method: OECD Test Guideline 210
GLP: yes

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Toxicity to microorganisms: EC50 (activated sludge): 11 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD
Test Guideline 209
GLP: yes

Toxicity to soil dwelling organisms: Test Type: Acute toxicity
NOEC: >= 1 000 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD
Test Guideline 207
GLP:yes

Plant toxicity: EC50: 283 - 1 670 mg/kg
Exposure time: 14 d
End point: Growth inhibition
Method: OECD
Test Guideline 208

Biodegradability: Test Type: Modified Sturm Test
Concentration: 10 mg/l
Result: Readily biodegradable.

Biodegradation: 72 % Exposure time: 28 d
Method: OECD
Test Guideline 301B
GLP: yes

Test Type: Die-Away
Test Concentration: 0.016 mg/l
Biodegradation: 93,3 %
Exposure time: 28 d
GLP: yes

Test Type: OECD Confirmatory Test
Biodegradation: 91 %
Exposure time: 24 - 70 d
Method: OECD
Test Guideline 303A
GLP: no

Stability in water: Test Type: Abiotic degradation hydrolytically stable
Method: EPA-FIFRA
GLP: yes

Distribution among environmental compartments:
Mobile in soils
Method: US-EPA

13.1 Waste treatment methods

Product: Dispose of contents/container in accordance with local regulation. Contact waste disposal services. Do not dispose of waste into sewer.
Contaminated packaging: Dispose of as unused product. Do not re-use empty containers.

14. Transport information

IATA
14.1 UN number: 1903
14.2 Proper shipping name: Disinfectant, liquid, corrosive, n.o.s. (Didecyldimethylammonium chloride)
14.3 Transport hazard class: 8
14.4 Packing group: II, Labels: 8
14.5 Environmental hazards: no

IMDG-CODE
14.1 UN number: 1903
14.2 Proper shipping name: Disinfectant, liquid, corrosive, n.o.s. (Didecyldimethylammonium chloride)
14.3 Transport hazard class: 8
14.4 Packing group: II, Labels: 8
EmS Number 1: F-A
EmS Number 2: S-B
14.5 Environmental hazards: Marine pollutant: yes

ADR
14.1 UN number: 1903
14.2 Proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyldimethylammonium chloride)
14.3 Transport hazard class: 8
14.4 Packing group: II Classification Code: C9 Hazard Identification Number: 80 Labels: 8
14.5 Environmental hazards: yes

RID
14.1 UN number: 1903
14.2 Proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyldimethylammonium chloride)
14.3 Transport hazard class: 8
14.4 Packing group: II Classification Code: C9 Hazard Identification Number: 80 Labels: 8
14.5 Environmental hazards: yes

DOT
14.1 UN number: 1903
14.2 Proper shipping name: Disinfectants, liquid, corrosive n.o.s. (Didecyldimethylammonium chloride)
14.3 Transport hazard class: 8
14.4 Packing group: II Labels: 8 Emergency Response Guidebook Number: 153
14.5 Environmental hazards: no

TDG
14.1 UN number: 1903
14.2 Proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyldimethylammonium chloride)
14.3 Transport hazard class: 8
14.4 Packing group: II Labels: 8
14.5 Environmental hazards: no

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

Relevant EU provisions transposed through retained EU law
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 E1 ENVIRONMENTAL HAZARDS 100 t 200 t

National regulatory information Water hazard class (Germany) : WGK 2 obviously hazardous to water Remarks: Classification according to AwSV, Annex 1 (5.2)

15.2 Chemical safety assessment
No data available

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16. Other information

Classification of the mixture:		**Classification procedure:**
Skin Corr. 1B	H314	Based on product data or assessment
Eye Dam. 1	H318	Based on product data or assessment
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 3	H412	Calculation method

Full text of H-Statements

H225:	Highly flammable liquid and vapour
H301:	Toxic if swallowed.
H302:	Harmful if swallowed.
H314:	Causes severe skin burns and eye damage.
H318:	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H400:	Very toxic to aquatic life.
H411:	Toxic to aquatic life with long lasting effects.
H412:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.:	Acute toxicity
Aquatic Acute:	Short-term (acute) aquatic hazard
Aquatic Chronic:	Long-term (chronic) aquatic hazard
Eye Dam.:	Serious eye damage
Skin Corr.:	Skin corrosion
EH40 WEL:	UK. EH40 Workplace Exposure Limits (WELs), as amended
EH40 WEL / STEL:	Short term exposure limit
EH40 WEL / TWA:	Time weighted average

Usage and handling instructions are not mentioned on this Material Safety Data Sheet.
The labelling of the product is indicated in Section 2.2.

* Version History - Reason for Revision:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Legal 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.

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