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### SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



# RHODUNA® 271 ready for use

Version 5.0 SDS Number: 300000002557 Revision Date: 16.03.2018

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

Product identifier : RHODUNA® 271 ready for use

Product code : 30000002557

Material number : 000000574197100211

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

Use of the Sub- : Electroplating

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Umicore Galvanotechnik GmbH

Klarenbergstraße 53-79 73525 Schwäbisch Gmünd

Germany

Telephone : +49 (0)7171 607-01

Telefax : +497171607316

E-mail address of person responsible for the SDS

: info.ipds@umicore.com

### 1.4 Emergency telephone number

**Poison Center** 

Telephone : 844 892 0111

Hours of operation : 24HRS

**Supplier** 

Emergency telephone num-

ber

: For transport in Europe, Central- and South America, Israel and Africa (Non-Arabic speaking countries): +32 3 213 15 70 For transport in the Middle East (Israel excluded) & Arabic

speaking Africa: +32 3 213 33 79

For transport in the USA and Canada: 1-877 986 4267 For transport in Asian and the Pacific (China excluded): +65

62 64 78 36

For transport in China: (+86) 400 88 71 190

Hours of operation : This telephone number is available 24 hours per day, 7 days

per week.





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### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1 H290: May be corrosive to metals.

Skin corrosion, Category 1 H314: Causes severe skin burns and eye damage.

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

Germ cell mutagenicity, Category 2 H341: Suspected of causing genetic defects.

#### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word : Danger

Hazard statements : H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.H341 Suspected of causing genetic defects.

Precautionary statements : Preve

Prevention:

P201 Obtain special instructions before use.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-

ately all contaminated clothing. Rinse skin with water.

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:

sulphuric acid

dirhodium trisulphate



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### **Additional Labelling**

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 4.5 %

#### 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.

## **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

### **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
sulphuric acid	7664-93-9	Met. Corr. 1; H290	<= 11
	231-639-5	Skin Corr. 1A; H314	
	016-020-00-8	Eye Dam. 1; H318	
	01-2119458838-20		
dirhodium trisulphate	10489-46-0	Met. Corr. 1; H290	<= 4.5
·	234-014-5	Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Muta. 2; H341	

For explanation of abbreviations see section 16.

### **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.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If symptoms persist, call a physician.

If unconscious, place in recovery position and get medical

attention immediately.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with difficul-

ty.

Wash contaminated clothing before reuse.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

Remove contact lenses.



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In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear. 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. Take victim immediately to hospital.

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

Symptoms : Skin contact may provoke the following symptoms:

Burn

corrosive effects

Redness Eye contact

Excessive lachrymation

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

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Cool closed containers exposed to fire with water spray. In the presence of fire, note caustic and corrosive effect.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod: :

ucts

Sulphur oxides Metal oxides

Sulphuric acid

### 5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : Collect contaminated fire extinguishing water separately. This



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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.

### 6.2 Environmental precautions

Environmental precautions : 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.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : 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

### **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 ap-

plication area.

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 : 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

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. To maintain product quality, do not store in heat or direct sunlight.



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Further information on stor-

Keep in a dry place. No decomposition if stored and applied

age stability

as directed.

## 7.3 Specific end use(s)

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
sulphuric acid	7664-93-9	TWA (Mist, tho-	0.05 mg/m3	GB EH40
		racic fraction)		
Further information	Where no specific short-term exposure limit is listed, a figure three times the			
	long-term exp	osure should be use	ed	
		TWA (Mist)	0.05 mg/m3	2009/161/EU
Further information	Indicative, When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds., The mist is defined as the thoracic fraction.			
		TWA (Thoracic fraction)	0.2 mg/m3	ACGIH
dirhodium trisul- phate	10489-46-0	TWA	0.001 mg/m3 (Rhodium)	GB EH40
		STEL	0.003 mg/m3 (Rhodium)	GB EH40
		TWA	0.01 mg/m3 (Rhodium)	ACGIH

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
sulphuric acid	Workers	Inhalation	Acute local effects	0.1 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0.05 mg/m3

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
sulphuric acid	Fresh water	0.0025 mg/l
	Sediment	0.002 mg/l
	Marine water	0.00025 mg/l
	Marine sediment	0.002 mg/l
	Sewage treatment plant	8.8 mg/l

### 8.2 Exposure controls

### **Engineering measures**

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

## Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166



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Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Material : Nitrile rubber
Break through time : > 240 min
Glove thickness : 0.38 mm

Skin and body protection : Impervious clothing

Respiratory protection : In the case of vapour formation use a respirator with an ap-

proved filter. ABEK-P3-filter

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : brown

Odour : odourless

pH : < 1

Flash point : does not flash

Vapour pressure : not determined

Density : 1.08 - 1.11 g/cm3

Solubility(ies)

Water solubility : completely miscible

Auto-ignition temperature : not determined

9.2 Other information

Flammability (liquids) : Does not sustain combustion.

Metal corrosion rate : Corrosive to metals

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

according to Regulation (EC) No. 1907/2006



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Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Alkali metals

Light metals

Alkaline earth metals

#### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

### **Components:**

sulphuric acid:

Acute oral toxicity : LD50 (Rat): 2,140 mg/kg

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal

toxicity

dirhodium trisulphate:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral tox-

icitv

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : Remarks: No data available

#### Skin corrosion/irritation

## **Product:**

Remarks: Extremely corrosive and destructive to tissue.

### **Components:**

#### sulphuric acid:

Result: Corrosive after 3 minutes or less of exposure

Remarks: data waiving in REACH dossier

according to Regulation (EC) No. 1907/2006



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## Serious eye damage/eye irritation

**Product:** 

Remarks: May cause irreversible eye damage.

**Components:** 

sulphuric acid:

Species: Rabbit

Result: Irreversible effects on the eye

Respiratory or skin sensitisation

**Product:** 

Remarks: No data available

Germ cell mutagenicity

**Product:** 

Genotoxicity in vitro : Remarks: No data available

Carcinogenicity

**Product:** 

Remarks: No data available

Reproductive toxicity

**Product:** 

Effects on fertility : Remarks: No data available

STOT - single exposure

**Product:** 

Remarks: No data available

STOT - repeated exposure

**Product:** 

Remarks: No data available

Repeated dose toxicity

**Components:** 

sulphuric acid:

Species: Rat, female LOAEL: 0.0003 mg/l

Application Route: inhalation (vapour) Method: OECD Test Guideline 412



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GLP: yes

**Further information** 

**Product:** 

Remarks: No data available

## **SECTION 12: Ecological information**

### 12.1 Toxicity

**Product:** 

**Components:** 

sulphuric acid:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 16 mg/l

Exposure time: 96 h Test Type: static test

GLP: no

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.025 mg/l

Exposure time: 65 days

Species: Jordanella floridae (flagfish)

GLP: no

Remarks: Fresh water

### dirhodium trisulphate:

**Ecotoxicology Assessment** 

Acute aquatic toxicity : No data available

### 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

### **Product:**



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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

**Product:** 

Additional ecological infor-

mation

No data available

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.

Dispose of in accordance with the European Directives on

waste and hazardous waste.

In accordance with local and national regulations.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific.

Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities. 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

ADN : UN 3264
ADR : UN 3264
RID : UN 3264
IMDG : UN 3264
IATA : UN 3264

14.2 UN proper shipping name

ADN : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Sulphuric acid, dirhodium trisulfate)

ADR : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Sulphuric acid, dirhodium trisulfate)

RID : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Sulphuric acid, dirhodium trisulfate)



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IMDG : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Sulphuric acid, dirhodium trisulfate)

**IATA** : Corrosive liquid, acidic, inorganic, n.o.s.

(Sulphuric acid, dirhodium trisulfate)

14.3 Transport hazard class(es)

**ADR** : 8



**RID** : 8



**IMDG** : 8



**IATA** : 8



## 14.4 Packing group

ADN

Packing group : II
Classification Code : C1
Hazard Identification Number : 80
Labels : 8

**ADR** 

Packing group : II
Classification Code : C1
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)
Limited quantity : 1.00 L

RID

Packing group : II
Classification Code : C1
Hazard Identification Number : 80
Labels : 8

**IMDG** 



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: II Packing group Labels 8

EmS Code F-A, S-B IMDG segregationcode : Acids

Packing instruction (cargo

aircraft)

: 30.00 L Maximum quantity Packing instruction (passen-: 851

ger aircraft)

: 1.00 L Maximum quantity Packing instruction (LQ) Y840 Packing group Ш

Labels Corrosive

Remarks

14.5 Environmental hazards

**ADN** 

Environmentally hazardous : no

Environmentally hazardous : no

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

14.6 Special precautions for user

Not applicable

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

: 855

Not applicable for product as supplied.

**SECTION 15: Regulatory information** 

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

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-Not applicable



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**lutants** 

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

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

Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

CH INV : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

## 15.2 Chemical safety assessment

## **SECTION 16: Other information**

## **Full text of H-Statements**

H290 : May be corrosive to metals.

H314 : Causes severe skin burns and eye damage.

according to Regulation (EC) No. 1907/2006



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H318 : Causes serious eye damage.

H341 : Suspected of causing genetic defects.

#### Full text of other abbreviations

Eye Dam.Met. Corr.Serious eye damageCorrosive to metalsMuta.Germ cell mutagenicity

Skin Corr. : Skin corrosion

2009/161/EU : Europe. COMMISSION DIRECTIVE 2009/161/EU establishing

a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending

Commission Directive 2000/39/EC

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2009/161/EU / TWA : Limit Value - eight hours ACGIH / TWA : 8-hour, time-weighted average

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

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; AICS - Australian Inventory of Chemical Substances; 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; TCSI - Taiwan Chemical Substance 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:

Classification procedure:

Met. Corr. 1 H290 Based on product data or assessment

according to Regulation (EC) No. 1907/2006



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Skin Corr. 1	H314	Based on product data or assessment
Eye Dam. 1	H318	Based on product data or assessment
Muta. 2	H341	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.

GB/EN