

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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## SANET POWER Q&E 6X325ML WEST

WM 1213747

Order number: 0713747

Version 10.4

Revision Date 04.02.2021

Print Date 24.09.2021

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

#### 1.1 Product identifier

Trade name : SANET POWER Q&E 6X325ML WEST  
Identification number : 64534

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

Use of the Substance/Mixture : Cleaning agent  
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)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Skin irritation, Category 1A	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

#### 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

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Hazard statements	:	H290 H314	May be corrosive to metals. Causes severe skin burns and eye damage.
Precautionary statements	:	P102 <b>Prevention:</b> P260 P280  <b>Response:</b> P305 + P351 + P338 + P310  P302 + P352  P333 + P313  <b>Disposal:</b> P501	Keep out of reach of children.  Do not breathe spray. Wear protective gloves/ protective clothing/ eye protection/ face protection.  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.  IF ON SKIN: Wash with plenty of soap and water.  If skin irritation or rash occurs: Get medical advice/ attention.  Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:  
methanesulphonic acid

Safety data sheet available on request.

### Classification in use concentration

Hazard pictograms



Signal word : Warning

Hazard statements : H315  
H319 Causes skin irritation.  
Causes serious eye irritation.

Precautionary statements : P102  
P260  
P280  
P305 + P351 + P338 + P310  
P302 + P350  
P501

Keep out of reach of children.  
Do not breathe spray.  
Wear protective gloves/ eye protection/ face protection.  
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.  
IF ON SKIN: Gently wash with plenty of soap and water.  
Only give completely emptied container to special waste disposer.

### 2.3 Other hazards

No information available.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
citric acid	77-92-9 201-069-1 01-2119457026-42	Eye Irrit. 2; H319	>= 25 - < 40
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1  01-2119488530-36	Eye Dam. 1; H318  SCL > 10 % 1; H318 10 % 2; H319	>= 5 - < 10
methanesulphonic acid	75-75-2 200-898-6 01-2119491166-34	Skin Corr. 1B; H314 Met. Corr. 1; H290 Acute Tox. 4; H302 Acute Tox. 4; H312 STOT SE 3; H335 Eye Dam. 1; H318  SCL 5 - 100 % 1B; H314 3 - < 5 % 1; H318 3 - < 5 % 2; H315 1 - < 3 % 2; H319 1 - < 3 % 2; H315	>= 3 - < 5

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.
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. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
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.

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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.  
Take victim immediately to hospital.

### 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.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local  
circumstances and the surrounding environment.

### 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 : 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.

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## SECTION 6: Accidental release measures

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

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

### 6.2 Environmental precautions

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Environmental precautions : Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.  
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., 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 : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray.

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

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. Store at room temperature in the original container.

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

### 7.3 Specific end use(s)

Specific use(s) : Cleaning agent

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### DNEL

D-Glucopyranose, oligomers, decyl octyl glycosides  
68515-73-1: : End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects

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Value: 595000 mg/kg

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 420 mg/m3

End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 357000 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 124 mg/m3

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 35,7 mg/kg

**methanesulphonic acid  
75-75-2:**

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 2,89 mg/m3

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 19,44 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 1,44 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 1,44 mg/kg

End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 8,33 mg/kg

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 6,76 mg/m3

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 8,33 mg/kg

End Use: Consumers

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Exposure routes: Inhalation  
Potential health effects: Long-term local effects  
Value: 1,73 mg/m3

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure  
Value: 0,7 mg/m3

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects  
Value: 0,42 mg/m3

### PNEC

citric acid  
77-92-9:

: Fresh water  
Value: 0,44 mg/l

Marine water  
Value: 0,044 mg/l

STP  
Value: > 1000 mg/l

Fresh water sediment  
Value: 34,6 mg/kg

Marine sediment  
Value: 3,46 mg/kg

Soil  
Value: 33,1 mg/kg

D-Glucopyranose, oligomers,  
decyl octyl glycosides  
68515-73-1:

: Fresh water  
Value: 0,176 mg/l

Marine water  
Value: 0,0176 mg/l

intermittent release  
Value: 0,27 mg/l

STP  
Value: 560 mg/l

Fresh water sediment  
Value: 1,516 mg/kg

Marine sediment  
Value: 0,152 mg/kg

Soil  
Value: 0,654 mg/kg

methanesulphonic acid  
75-75-2:

: Fresh water  
Value: 0,012 mg/l

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Marine water  
Value: 0,0012 mg/l

Fresh water sediment  
Value: 0,0251 mg/kg

Soil  
Value: 0,00183 mg/kg

Intermittent use/release  
Value: 0,12 mg/l

Sewage treatment plant  
Value: 100 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

#### Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

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).

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Remove and wash contaminated clothing before re-use.

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

#### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : red

Odour : characteristic

Odour Threshold : No data available

pH : ca. 0,4, at 20 °C



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Melting point/range	: No data available
Boiling point/boiling range	: No information available.
Flash point	: Not applicable
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. 1,173 g/cm <sup>3</sup> 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

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.

### **10.4 Conditions to avoid**

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Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.  
Other information : No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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.

#### Product

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg  
Method: Calculation method

Skin corrosion/irritation : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation : May cause irreversible eye damage.

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

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

Further information : No data available

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### Components:

#### **citric acid**

#### **77-92-9:**

Acute oral toxicity

: LD50 Oral Mouse: 5.400 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral Rat: 11.700 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral Mouse: 5.000 mg/kg

LD50 Oral Rat: 3.000 mg/kg

Acute dermal toxicity

: LD50 Dermal Rat: > 2.000 mg/kg  
Method: OECD Test Guideline 402

Acute toxicity (other routes of  
administration)

: see user defined free text Rat: 725 mg/kg  
Application Route: see user defined free text

see user defined free text Mouse: 940 mg/kg  
Application Route: see user defined free text

Serious eye damage/eye  
irritation

: Result: Eye irritation

Respiratory or skin sensitisation

: Result: Does not cause skin sensitisation.

Carcinogenicity - Assessment

: Not classifiable as a human carcinogen.

Repeated dose toxicity

: Rat: NOAEL: 4.000 mg/kg  
LOAEL: 8.000 mg/kg  
Application Route: Oral  
Exposure time: 10 d

### **D-Glucopyranose, oligomers, decyl octyl glycosides**

#### **68515-73-1:**

Acute oral toxicity

: LD50 Rat: > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity

: Rabbit: > 2.000 mg/kg  
Method: OECD Test Guideline 402

Skin corrosion/irritation

: Species: Rabbit  
Result: Mild skin irritation  
Method: OECD Test Guideline 404

Serious eye damage/eye  
irritation

: Species: Rabbit  
Result: Irreversible effects on the eye  
Method: OECD Test Guideline 405

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Respiratory or skin sensitisation : Species: Guinea pig  
Result: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406

Germ cell mutagenicity

Genotoxicity in vitro : Type: Ames test  
Result: negative  
Method: OECD Test Guideline 471

### methanesulphonic acid

75-75-2:

Acute oral toxicity : LD50 Rat: 200 mg/kg

LD50 Rat: 649 mg/kg

Acute inhalation toxicity : LC0 Mouse: > 1,88 mg/l  
Exposure time: 1 h

LC0 Rat: 0,74 mg/l  
Exposure time: 6 h

Acute dermal toxicity : LD50 Rabbit: > 1.000 - 2.000 mg/kg

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### citric acid

77-92-9:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 - 760 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.535 mg/l  
Exposure time: 24 h

EC50 (Daphnia magna (Water flea)): ca. 120 mg/l  
Exposure time: 72 h

Toxicity to algae : NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l  
Exposure time: 8 Days  
Test Type: static test

Toxicity to bacteria : (Pseudomonas putida): > 10.000 mg/l  
Exposure time: 16 h

##### D-Glucopyranose, oligomers, decyl octyl glycosides

68515-73-1:

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Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 100,81 mg/l  
Exposure time: 96 h

NOEC (Brachydanio rerio (zebrafish)): 1,8 mg/l

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates Exposure time: 48 h

NOEC (Daphnia magna (Water flea)): 1,0 mg/l

Toxicity to algae : EC50 (Scenedesmus subspicatus): 27,22 mg/l  
Exposure time: 72 h

### **methanesulphonic acid 75-75-2:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 10 - 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 10 - 100 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): 10 - 100  
mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

Toxicity to bacteria : EC50 : 10 - 100 mg/l  
Exposure time: 72 h  
Method: see user defined free text  
Remarks: see user defined free text

## 12.2 Persistence and degradability

### **Product:**

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies  
(comply) with the biodegradability criteria as laid down in Regulation  
(EC) No. 648/2004 on detergents.

### **Components:**

#### **citric acid 77-92-9:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 97 %  
Exposure time: 28 d  
Method: OECD 301 B

Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 19 d  
Method: OECD 301 E

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Biochemical Oxygen Demand (BOD) : 526 mg/g

Chemical Oxygen Demand (COD) : 728 mg/g

ThOD : 0,75 g/g

### D-Glucopyranose, oligomers, decyl octyl glycosides 68515-73-1:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 100 %  
Exposure time: 28 d  
Method: OECD 301 E

### methanesulphonic acid 75-75-2:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: > 99 %  
Exposure time: 28 d

## 12.3 Bioaccumulative potential

### Components:

#### citric acid

##### 77-92-9:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -1,72

### methanesulphonic acid 75-75-2:

Partition coefficient: n-octanol/water : log Pow: -2,38

## 12.4 Mobility in soil

### Components:

#### methanesulphonic acid

##### 75-75-2:

Distribution among environmental compartments : Koc: 1Remarks: Highly mobile in soils

## 12.5 Results of PBT and vPvB assessment

### Components:

#### citric acid

##### 77-92-9:

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

## 12.6 Other adverse effects

### Product:

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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.  
In accordance with local and national regulations.
- Contaminated packaging : Only give completely emptied packaging to special waste disposer.  
  
Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

### SECTION 14: Transport information

#### 14.1 UN number

- ADR : 3265  
IMDG : 3265  
IATA : 3265

#### 14.2 Proper shipping name

- ADR : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(methanesulphonic acid)
- IMDG : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(methanesulphonic acid)
- IATA : Corrosive liquid, acidic, organic, n.o.s. Not permitted for transport

#### 14.3 Transport hazard class

- ADR : 8  
IMDG : 8  
IATA : 8

#### 14.4 Packing group

- ADR  
Classification Code : C3  
Packaging group : III  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)
- IMDG  
Packaging group : III  
Labels : 8  
EmS Number : F-A, S-B
- IATA  
(Cargo) : Corrosive liquid, acidic, organic, n.o.s. Not permitted for transport  
Packaging group : III  
Labels : 8

#### 14.5 Environmental hazards

ADR

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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## SANET POWER Q&E 6X325ML WEST

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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 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. : Not applicable

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: : portionClass 1: 34,51 %  
: 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: 3,51 %  
106,76 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: 3,51 %  
38,07 g/l  
VOC content valid only for coating materials used on wood surfaces



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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according to Detergents : 5 - <15% Non-ionic surfactants, Perfumes  
Regulation EC 648/2004

GISBAU (D) : GS 50

### 15.2 Chemical safety assessment

There is no data available for this product.

## SECTION 16: Other information

### Full text of H-Statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:	H290	On basis of test data.
	H314	On basis of test data.
	H318	Calculation method

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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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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