

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

Date of last issue: 28.06.2022

Print Date 31.03.2023

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

#### 1.1 Product identifier

Trade name : BYK-P 9085  
Product code : 000000000000126771

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

Use of the Sub-stance/Mixture : Processing Additive

#### 1.3 Details of the supplier of the safety data sheet

Company : BYK-Chemie GmbH  
Abelstrasse 45  
46483 Wesel  
Telephone : +49 281 670-0  
Telefax : +49 281 65735  
  
Information : Regulatory Affairs  
Telephone : +49 281 670-23532  
Telefax : +49 281 670-23533  
E-mail address : GHS.BYK@altana.com

#### 1.4 Emergency telephone number

+44 1235 239670

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Long-term (chronic) aquatic hazard, Category 3 : H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

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

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.

##### **Disposal:**

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

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### 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.

Ecological information: 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.

Toxicological information: 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Combination of surface active substances and polymers

#### Components

| Chemical name                                        | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification             | Concentration<br>(% w/w) |
|------------------------------------------------------|-------------------------------------------------------|----------------------------|--------------------------|
| Fatty acids, C-18-unsatd, dimers, 2-ethylhexylesters | -<br>701-221-1<br>01-2119974144-36-0000               | Aquatic Chronic 3;<br>H412 | >= 50 - <= 100           |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

Symptoms : No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

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Revision Date: 16.02.2023

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Risks : No information available.

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

Treatment : No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

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

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## 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.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Try to prevent the material from entering drains or water courses.

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

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

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Print Date 31.03.2023

### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : General industrial hygiene practice.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : 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.
- Advice on common storage : No materials to be especially mentioned.
- Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

- Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

| Substance name                                       | End Use   | Exposure routes | Potential health effects   | Value       |
|------------------------------------------------------|-----------|-----------------|----------------------------|-------------|
| Fatty acids, C-18-unsatd, dimers, 2-ethylhexylesters | Workers   | Inhalation      | Long-term systemic effects | 25,52 mg/m3 |
|                                                      | Workers   | Dermal          | Long-term systemic effects | 1 mg/kg     |
|                                                      | Consumers | Inhalation      | Long-term systemic effects | 12,76 mg/m3 |
|                                                      | Consumers | Dermal          | Long-term systemic effects | 0,5 mg/kg   |
|                                                      | Consumers | Oral            | Long-term systemic effects | 0,5 mg/kg   |

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

| Substance name | Environmental Compartment | Value |
|----------------|---------------------------|-------|
|----------------|---------------------------|-------|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

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|                                                      |                                           |             |
|------------------------------------------------------|-------------------------------------------|-------------|
| Fatty acids, C-18-unsatd, dimers, 2-ethylhexylesters | Fresh water                               | 0,01 mg/l   |
|                                                      | Marine water                              | 0,001 mg/l  |
|                                                      | Sewage treatment plant                    | 0,1 mg/l    |
|                                                      | Fresh water sediment                      | 32616 mg/kg |
|                                                      | Marine sediment                           | 3261 mg/kg  |
|                                                      | Soil                                      | 50000 mg/kg |
|                                                      | Hazard for predators: secondary poisoning | 30 mg/kg    |

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses

Hand protection

Material : PVC or other plastic material gloves

Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally required.

#### Environmental exposure controls

General advice : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Try to prevent the material from entering drains or water courses.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : light brown

Odour : ester-like

Odour Threshold : No data available

Melting point/freezing point : < 0 °C  
Method: derived

Initial boiling point and boiling range : > 200 °C  
Method: derived

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : > 100 °C  
Method: 49 (Pensky-Martens)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

Date of last issue: 28.06.2022

Print Date 31.03.2023

|                                        |   |                                                                                  |
|----------------------------------------|---|----------------------------------------------------------------------------------|
| Auto-ignition temperature              | : | > 200 °C<br>Method: DIN 51794                                                    |
| Decomposition temperature              | : | No data available                                                                |
| pH                                     | : | 6 (20 °C)<br>Concentration: 1 %<br>Method: Universal pH-value indicator          |
| Viscosity                              |   |                                                                                  |
| Viscosity, dynamic                     | : | No data available                                                                |
| Solubility(ies)                        |   |                                                                                  |
| Water solubility                       | : | immiscible                                                                       |
| Solubility in other solvents           | : | No data available                                                                |
| Partition coefficient: n-octanol/water | : | No data available                                                                |
| Vapour pressure                        | : | < 1 hPa<br>Method: derived                                                       |
| Relative density                       | : | No data available                                                                |
| Density                                | : | 0,92 g/cm <sup>3</sup> (20 °C, 1.013 hPa)<br>Method: 5 (40°C oscillating U-tube) |
| Bulk density                           | : | Not applicable                                                                   |
| Relative vapour density                | : | No data available                                                                |

### 9.2 Other information

|                  |   |                   |
|------------------|---|-------------------|
| Evaporation rate | : | No data available |
| Surface tension  | : | No data available |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

|                     |   |                                                                                       |
|---------------------|---|---------------------------------------------------------------------------------------|
| Hazardous reactions | : | Stable under recommended storage conditions.<br>No hazards to be specially mentioned. |
|---------------------|---|---------------------------------------------------------------------------------------|

### 10.4 Conditions to avoid

|                     |   |                   |
|---------------------|---|-------------------|
| Conditions to avoid | : | No data available |
|---------------------|---|-------------------|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

Date of last issue: 28.06.2022

Print Date 31.03.2023

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

Carbon oxides

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: No data available

##### Components:

#### Fatty acids, C-18-unsatd, dimers, 2-ethylhexylesters:

Acute oral toxicity : LD50 Oral (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

#### Skin corrosion/irritation

##### Product:

Remarks : No data available

##### Components:

#### Fatty acids, C-18-unsatd, dimers, 2-ethylhexylesters:

Species : EPISKIN human epidermis skin constructs  
Method : OECD Test Guideline 439  
Result : No skin irritation  
GLP : yes

#### Serious eye damage/eye irritation

##### Product:

Remarks : No data available

##### Components:

#### Fatty acids, C-18-unsatd, dimers, 2-ethylhexylesters:

Species : Bovine corneal opacity and permeability assay (BCOP)  
Method : OECD Test Guideline 437  
Result : No eye irritation

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

Date of last issue: 28.06.2022

Print Date 31.03.2023

GLP : yes  
Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

### Respiratory or skin sensitisation

#### Product:

Remarks : No data available

#### Components:

##### **Fatty acids, C-18-unsatd, dimers, 2-ethylhexylesters:**

Test Type : Mouse Local Lymph Node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitisation.  
GLP : yes

### Germ cell mutagenicity

#### Components:

##### **Fatty acids, C-18-unsatd, dimers, 2-ethylhexylesters:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes  
  
Test Type: In vitro mammalian cell gene mutation test (mouse lymphoma)  
  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
  
Test Type: Micronucleus test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative  
GLP: yes

### Repeated dose toxicity

#### Product:

Remarks : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

Date of last issue: 28.06.2022

Print Date 31.03.2023

### Components:

#### **Fatty acids, C-18-unsatd, dimers, 2-ethylhexylesters:**

Species : Rat, male and female  
LOAEL : 250 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 408  
GLP : No information available.

Species : Mouse, male and female  
LOAEL : 250 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 408  
GLP : No information available.

Species : Rat, male and female  
NOAEL : 100 mg/kg  
Application Route : Oral  
GLP : yes

### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

##### Product:

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**

##### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

##### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

### Components:

#### **Fatty acids, C-18-unsatd, dimers, 2-ethylhexylesters:**

Toxicity to fish : LL50 (Danio rerio (zebra fish)): > 10 mg/l  
Exposure time: 96 h  
Test Type: static test

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

Date of last issue: 28.06.2022

Print Date 31.03.2023

|                                                     |                                                                                                                                                                |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     | Method: OECD Test Guideline 203<br>GLP: yes                                                                                                                    |
| Toxicity to daphnia and other aquatic invertebrates | : EL50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202<br>GLP: yes                |
| Toxicity to algae/aquatic plants                    | : ErL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201<br>GLP: yes    |
| Toxicity to microorganisms                          | : IC50 (activated sludge): > 1.000 mg/l<br>Exposure time: 3 h<br>Test Type: Respiration inhibition<br>Method: OECD Test Guideline 209<br>GLP: yes              |
| Toxicity to soil dwelling organisms                 | : NOEC: > 1.000 mg/kg<br>Exposure time: 56 d<br>End point: Reproduction<br>Species: Eisenia fetida (earthworms)<br>Method: OECD Test Guideline 222<br>GLP: yes |

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

#### Components:

##### **Fatty acids, C-18-unsatd, dimers, 2-ethylhexylesters:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B  
GLP: yes

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

Date of last issue: 28.06.2022

Print Date 31.03.2023

very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

**Product:**

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.

### 12.7 Other adverse effects

**Product:**

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

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

Date of last issue: 28.06.2022

Print Date 31.03.2023

|                                                                                                                                                         |                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).                                                               | : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). |
| REACH - List of substances subject to authorisation (Annex XIV)                                                                                         | : Not applicable                                                                                                    |
| Fire Hazard Class                                                                                                                                       | : - : -                                                                                                             |
| 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                                                                                                                              | : Law on the incentive tax for volatile organic compounds (VOCV)<br>no VOC duties                                   |

### 15.2 Chemical safety assessment

Not applicable

## SECTION 16: Other information

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

### Full text of H-Statements

H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-P 9085

Version 5.0

SDB\_CH

Revision Date: 16.02.2023

Date of last issue: 28.06.2022

Print Date 31.03.2023

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:

Aquatic Chronic 3

H412

#### Classification procedure:

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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