

**WHITE MUSK**

Version 1.0

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**SECTION 1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Sales No. : 11591-401-5  
WHITE MUSK

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

Intended Use Fragrances : Perfume compound

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

Company :  
bekro chemie GmbH  
Industriestrasse 104  
66802 Überherrn

Telephone : +49 6836 9198 0  
Telefax : +49 6836 9198 10  
E-mail address : info@bekro.de  
Responsible/issuing person

**1.4 Emergency telephone number**

+49 6836 9198 0  
(office hours only)

**SECTION 2. Hazards identification**

**2.1 Classification of the substance or mixture**

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

|                                      |  |
|--------------------------------------|--|
| Eye irritation, Category 2           | H319: Causes serious eye irritation.                     |
| Skin sensitisation, Category 1       | H317: May cause an allergic skin reaction.               |
| Chronic aquatic toxicity, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

**2.2 Label elements**

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Administrative information:  
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Shipping Order Information: 16 446 867/8 771 186

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H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

- 3-(4-tert-butylphenyl)-2-methylpropanal 80-54-6
- 3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate) 115-95-7
- 2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphtalene (main isomer) 54464-57-2
- benzyl 2-hydroxybenzoate 118-58-1
- 2-hexyl-3-phenyl-2-propenal (trans & cis) 101-86-0
- 2H-1-benzopyran-2-one (=coumarin) 91-64-5
- 4(3)-(4-Methyl-3-pentenyl)-3-cyclohexen- carbaldehyde 37677-14-8

### 2.3 Other hazards

Hazards not Otherwise Classified. : None

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

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| Chemical name  | CAS-No.<br>EC-No.<br>Registration<br>number | Classification<br>(REGULATION<br>(EC) No<br>1272/2008)   | Concentration<br>[Percent by<br>weight] |
|--|---|--|---|
| Benzyl acetate   | 140-11-4<br>205-399-7<br>01-2119638272-42   | Aquatic Chronic 3;<br>H412   | >= 10 - < 20                            |
| 2-phenoxyethanol   | 122-99-6<br>204-589-7<br>01-2119488943-21   | Acute Tox. 4; H302<br>Eye Irrit. 2; H319   | >= 5 - < 10                             |
| 2-phenylethanol  | 60-12-8<br>200-456-2<br>01-2119963921-31    | Acute Tox. 4; H302<br>Eye Irrit. 2; H319   | >= 1 - < 5                              |
| 3-(4-tert-butylphenyl)-2-methylpropanal  | 80-54-6<br>201-289-8<br>01-2119485965-18    | Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Skin Sens. 1B;<br>H317<br>Repr. 2; H361<br>Aquatic Chronic 3;<br>H412 | >= 2,5 - < 3                            |
| 3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate)                       | 115-95-7<br>204-116-4<br>01-2119454789-19   | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317  | >= 1 - < 5                              |
| 2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphthalene (main isomer) | 54464-57-2<br>259-174-3<br>01-2119489989-04 | Skin Irrit. 2; H315<br>Skin Sens. 1B;<br>H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410            | >= 1 - < 2,5                            |
| benzyl 2-hydroxybenzoate   | 118-58-1<br>204-262-9<br>01-2119969442-31   | Eye Irrit. 2; H319<br>Skin Sens. 1B;<br>H317<br>Aquatic Chronic 3;<br>H412   | >= 0,25 - < 1                           |
| 2-hexyl-3-phenyl-2-propenal (trans & cis)  | 101-86-0<br>202-983-3<br>01-2119533092-50   | Skin Sens. 1B;<br>H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 2;<br>H411                                   | >= 0,25 - < 1                           |

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|   |  |  |                 |
|---|--|--|-----------------|
| 2H-1-benzopyran-2-one (=coumarin)                     | 91-64-5<br>202-086-7<br>01-2119949300-45 | Acute Tox. 4; H302<br>Skin Sens. 1B;<br>H317         | >= 0,1 - < 1    |
| 4(3)-(4-Methyl-3-pentenyl)-3-cyclohexen- carbaldehyde | 37677-14-8<br>253-617-4                  | Skin Sens. 1B;<br>H317<br>Aquatic Chronic 2;<br>H411 | >= 0,1 - < 0,25 |

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4. First aid measures**

**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
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 skin contact : If on skin, rinse well with water.
- In case of eye contact : Remove contact lenses.  
Immediately flush eyes for at least 15 minutes. Get medical attention.
- 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 data available  
Risks : no data available

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

- Treatment : no data available

**SECTION 5. Firefighting measures**

**5.1 Extinguishing media**

- Suitable extinguishing media : Dry chemical  
Alcohol-resistant foam

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Carbon dioxide (CO<sub>2</sub>)  
Water spray

Unsuitable extinguishing media : High volume water jet

### 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.

### 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 : no data available

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials 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

Not applicable

## 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 application area.

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Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.  
Temperature class : no data available  
Fire-fighting class : no data available  
Dust explosion class : no data available

### 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.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Ambient / 10-30°C (50-85°F)  
Dry, well ventilated, preferably full, hermetically sealed  
Advice on common storage : Protect against light.  
German storage class : no data available  
Other data : 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

| Components          | CAS-No.  | Value   | Control parameters  | Update     | Basis       |
|---------------------|----------|---|---------------------|------------|-------------|
| 2-phenoxyethanol    | 122-99-6 | AGW   | 20 ppm<br>110 mg/m3 | 2013-09-19 | DE TRGS 900 |
| Further information | :        | DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).<br>Sum of vapor and aerosols.<br>Skin absorption<br>When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                     |            |             |

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**8.2 Exposure controls**

**Personal protective equipment**

- Respiratory protection** : Use only in well-ventilated areas.  
In case a risk analysis proved the cartridge respirator as acceptable, use type:  
ABEK-P3 (EN 14387) respirator cartridges as a backup to engineering controls.  
In absence of engineering controls, use self-contained breathing apparatus or full face supplied air respirators.  
Use respirators and components tested and approved under appropriate government standards such as CEN (EU).
- Hand protection** : Use gloves when handling substance in open systems.  
Inspect gloves prior to use. Train operators for proper use.  
If only incidental exposure is expected: (work without direct contact to substance) use gloves tested according EN 16523-1 breakthrough times at least 10 minutes, tested for chemicals indicated in chapter 3 of this SDS. Change gloves frequently.  
If direct skin contact is expected: use gloves tested according to EN 16523-1, tested for chemicals indicated in chapter 3 of this SDS. Permeation time must exceed contact time.
- Eye protection** : Use safety glasses and faceshield tested according to EN 166.
- Skin and body protection** : Wear working clothes covering arms and legs.  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Use apron or complete chemical suit if exposure is expected.
- Hygiene measures** : Do not eat, drink or smoke during work.  
Wash and dry hands after finished working.
- Protective measures** : Exposure assessment: Exposure is dependent on the product being handled, the potential for chemical release, and any resulting airborne concentrations or dermal contact. Since product handling and release scenarios vary, and no two workplaces are exactly alike, it is recommended that the potential for exposure be assessed prior to the product's use or introduction. Exposure assessments should be performed by an occupational hygienist, industrial hygienist, or other qualified occupational or environmental health professional. An exposure assessment should be conducted to determine the efficacy of any ventilation and the need for additional respiratory protection.

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PPE is always the last resort to avoid exposure. In any case technical and organisational measures have to be explored and used prior to the selection of PPE. The PPE selection is for operators trained to work with chemicals according to good industrial hygiene and safety practice. Operators have to be trained and used to PPE handling.

### Environmental exposure controls

General advice : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state                         | : liquid                                      |
| Form                                   | : liquid                                      |
| Colour                                 | : colorless to Very slightly yellow           |
| Taste                                  | : not determined                              |
| Odour                                  | : Floral, Musky, Powdery                      |
| Odour Threshold                        | : Not applicable                              |
| Flash point                            | : 105 °C Method: Grabner miniflash closed cup |
| Lower explosion limit                  | : not determined                              |
| Upper explosion limit                  | : not determined                              |
| Flammability (solid, gas)              | : Not applicable                              |
| Oxidizing properties                   | : no data available                           |
| Auto-ignition temperature              | : not determined                              |
| Decomposition temperature              | : no data available                           |
| pH                                     | : not determined                              |
| Melting point                          | : not determined                              |
| Boiling point                          | : not determined                              |
| Vapour pressure                        | : 0,0399 hPa at 20 °C Calculated (99,9 %)     |
| Density                                | : 944,29 kg/m <sup>3</sup> at 20 °C           |
| Bulk density                           | : Not applicable                              |
| Water solubility                       | : not determined                              |
| Solubility/qualitative                 | : practically insoluble                       |
| Partition coefficient: n-octanol/water | : Not applicable                              |
| Viscosity, kinematic                   | : no data available                           |
| Relative vapour density                | : no data available                           |
| Evaporation rate                       | : no data available                           |
| Explosive properties                   | : no data available                           |

### 9.2 Other information

Not applicable

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**SECTION 10. Stability and reactivity**

**10.1 Reactivity**

none

**10.2 Chemical stability**

The product is chemically stable.

**10.3 Possibility of hazardous reactions**

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

**10.4 Conditions to avoid**

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 data available

Thermal decomposition : no data available

**SECTION 11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Acute oral toxicity** : Acute toxicity estimate  
Dose: > 2 000 mg/kg  
Method: Calculation method

**Acute oral toxicity**

Benzyl acetate : LD50: 2 490 mg/kg Species: Rat

2-phenoxyethanol : LD50: 1 840 mg/kg Species: Rat

2-phenylethanol : LD50: 1 790 mg/kg Species: Rat

3-(4-tert-butylphenyl)-2-methylpropanal : LD50: 1 390 mg/kg Species: Rat

3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate) : LD50: 13 934 mg/kg Species: Rat

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2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene (main isomer) : LD50: > 5 000 mg/kg Species: Rat

benzyl 2-hydroxybenzoate : LD50: 2 227 mg/kg Species: Rat

2-hexyl-3-phenyl-2-propenal (trans & cis) : LD50: 3 100 mg/kg Species: Rat

2H-1-benzopyran-2-one (=coumarin) : LD50: 520 mg/kg Species: Rat

4(3)-(4-Methyl-3-pentenyl)-3-cyclohexen- carbaldehyde : LD50: > 5 000 mg/kg Species: Rat

**Acute inhalation toxicity** : No data is available on the product itself.

**Acute dermal toxicity** : No data is available on the product itself.

### Acute dermal toxicity

2-phenoxyethanol : LD50: 14 422 mg/kg Species: Rat

3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate) : LD50: > 5 000 mg/kg Species: Rabbit

2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene (main isomer) : LD50: > 5 000 mg/kg Species: Rabbit

benzyl 2-hydroxybenzoate : LD50: 14 150 mg/kg Species: Rabbit

4(3)-(4-Methyl-3-pentenyl)-3-cyclohexen- carbaldehyde : LD50: > 5 000 mg/kg Species: Rabbit

**Acute toxicity (other routes of administration)** : No data is available on the product itself.

### Skin corrosion/irritation

Skin irritation : May cause skin irritation and/or dermatitis.

### Serious eye damage/eye irritation

Eye irritation : Vapours may cause irritation to the eyes, respiratory system and the skin.

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**Respiratory or skin sensitisation**

Sensitisation : No data is available on the product itself.

**Germ cell mutagenicity**

Germ cell mutagenicity : No data is available on the product itself.

**Carcinogenicity**

Carcinogenicity : No data is available on the product itself.

**Reproductive toxicity**

Reproductive toxicity : No data is available on the product itself.

**Target Organ Systemic Toxicant - Single exposure**

Target Organ Systemic Toxicant - Single exposure : No data is available on the product itself.

**Target Organ Systemic Toxicant - Repeated exposure**

Target Organ Systemic Toxicant - Repeated exposure : No data is available on the product itself.

**Target Organ Systemic Toxicant - Repeated exposure  
Aspiration hazard**

Aspiration toxicity : No data is available on the product itself.

**Phototoxicity**

Phototoxicity : No data is available on the product itself.

**Further information** : no data available

**SECTION 12. Ecological information**

**12.1 Toxicity**

Toxicity to fish : no data available  
Toxicity to daphnia and other aquatic invertebrates : no data available  
Toxicity to algae : no data available  
M-Factor  
2-acetyl-1,2,3,4,5,6,7,8-  
octahydro-2,3,8,8-tetra- : 1

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methylnaphtalene (main isomer)  
M-Factor  
2-hexyl-3-phenyl-2-propenal : 1  
(trans & cis)  
Toxicity to bacteria : no data available  
Toxicity to fish (Chronic toxicity) : no data available  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : no data available  
  
Acute aquatic toxicity : no data available  
Chronic aquatic toxicity : no data available  
Toxicity Data on Soil : no data available  
Other organisms relevant to the environment : no data available

**12.2 Persistence and degradability**

Biodegradability : no data available

**12.3 Bioaccumulative potential**

Bioaccumulation : no data available

**12.4 Mobility in soil**

Mobility : no data available  
Distribution among environmental compartments : no data available  
Additional advice : no data available  
Environmental fate and pathways  
Physico-chemical removability : no data available

**12.5 Results of PBT and vPvB 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**

Biochemical Oxygen Demand (BOD) : no data available  
Dissolved organic carbon (DOC) : no data available  
Chemical Oxygen Demand (COD) : no data available  
Adsorbed organic bound halogens (AOX) : no data available  
Additional ecological : An environmental hazard cannot be excluded in the event of

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information

unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

**SECTION 13. Disposal considerations**

**13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

Dispose of in accordance with local regulations.

**SECTION 14. Transport information**

**14.1 UN number**

N/A

**14.2 UN proper shipping name**

Not regulated as a dangerous good

**14.3 Transport hazard class(es)**

N/A

**14.4 Packing group**

N/A

**14.5 Environmental hazards**

N/A

**14.6 Special precautions for user**

**IMDG**  
IMDG Code Segregation : None  
Group

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

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

Major Accident Hazard Legislation : Not applicable

Water contaminating class (Germany) : WGK 2 significantly water endangering  
Classification according to AwSV, Annex 1 (5.2)

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

### SECTION 16. Other information

#### Full text of H-Statements referred to under sections 2 and 3.

|      |   |
|------|---|
| H302 | Harmful if swallowed.                                 |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H361 | Suspected of damaging fertility or the unborn child.  |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |
| H412 | Harmful to aquatic life with long lasting effects.    |

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### Key or legend to abbreviations and acronyms used in the safety data sheet

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 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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