

Product Name: GCX-4K-1, GCX-4K20-1, GCX-4K50-1, GCX-4K70-1

Revision Date: 17-Dec-2018

Issuing Date: 12-Oct-2018

Revision Number: 1.1

Safety data sheet number: GCX-4K-1

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

### 1.1. Product identifier

**Product Name** GCX-4K-1, GCX-4K20-1, GCX-4K50-1, GCX-4K70-1  
**Product Form** Mixture  
**Safety data sheet number** GCX-4K-1

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

**Relevant identified uses** Water based ink for inkjet printing machine  
**Uses advised against** No information available

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

#### Manufacturer

Brother Industries, Ltd.  
15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan  
Telephone (for information): +81-52-824-2735

#### Importer

(USA)  
Brother International Corporation  
200 Crossing Boulevard, Bridgewater, NJ 08807, USA  
Telephone (for information): +1-877-276-8437  
(Europe)  
Brother Internationale Industriemaschinen GmbH  
Dusseldorfer Str. 7-9, D-46446, Emmerich, am Rhein, Germany  
Telephone (for information): +49-2-822-6090  
(Australia)  
Brother International (Aust.) Pty. Ltd. ACN 001 393 835  
Level 3, Building A, 11 Talavera Road, Macquarie Park, NSW 2113, Australia  
Telephone (for information): +61-2-9887-4344  
(New Zealand)  
BROTHER INTERNATIONAL (NZ) LTD.  
27 Matarawa Place, Tauriko Business Estate, Tauriko, Tauranga, New Zealand  
Telephone (for information): +64-7-543-5600  
(Singapore)  
BROTHER INTERNATIONAL SINGAPORE PTE. LTD.  
10 Eunos Road 8, #14-01/02 Singapore Post Centre, Singapore 408600, Singapore  
Telephone (for information): +65-6538-0311  
(Asia)  
BROTHER MACHINERY ASIA LTD.  
Unit 1207-11, 12/F, 9 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong  
Telephone (for information): +852-2777-0010

For further information, please contact

**E-mail address** sds.info@brother.co.jp

### 1.4. Emergency telephone number

**Emergency Telephone** CHEMTREC +1-703-527-3887 (International)  
CHEMTREC +61-290372994 (Australia)

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Antipoison Center: ORFILA +33-1-45-425-959 (for France only)

## Section 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|                       |                     |
|-----------------------|---------------------|
| Acute toxicity - Oral | Category 4 - (H302) |
|-----------------------|---------------------|

### 2.2. Label elements

Regulation (EC) No 1272/2008



Signal word

Warning

### Hazard statements

H302 - Harmful if swallowed

EUH208 - Contains 1,2-Benzisothiazolin-3-one May produce an allergic reaction.

### Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P280 - Wear protective gloves and eye/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

### 2.3. Other hazards

No information available

## Section 3: Composition/information on ingredients

### 3.2 Mixtures

| Chemical name        | CAS No    | EC No     | EC Index No  | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH Registration Number |
|----------------------|-----------|-----------|--------------|----------|---|---------------------------|
| Diethylene glycol    | 111-46-6  | 203-872-2 | 603-140-00-6 | 12-17    | Acute Tox. 4 (H302)   | Registered                |
| Ethylene glycol      | 107-21-1  | 203-473-3 | 603-027-00-1 | 10-15    | Acute Tox. 4 (H302)   | No data available         |
| Carbon Black (bound) | 1333-86-4 | 215-609-9 | -            | <10      | Not classified  | Registered                |

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|                            |           |           |              |       |   |                   |
|----------------------------|-----------|-----------|--------------|-------|---|-------------------|
| Acetone                    | 67-64-1   | 200-662-2 | 606-001-00-8 | <1    | Eye Irrit. 2 (H319)<br>(EUH066)<br>STOT SE 3 (H336)<br>Flam. Liq. 2 (H225)  | No data available |
| 1,2-Benzisothiazolin-3-one | 2634-33-5 | 220-120-9 | 613-088-00-6 | <0.03 | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411) | Not applicable    |

Full text of H- and EUH-phrases: see section 16

## Section 4: First aid measures

### 4.1. Description of first aid measures

|                       |   |
|-----------------------|---|
| <b>General advice</b> | Show this safety data sheet to the doctor in attendance.  |
| <b>Inhalation</b>     | Remove to fresh air.  |
| <b>Eye contact</b>    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.  |
| <b>Skin contact</b>   | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.  |
| <b>Ingestion</b>      | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. |

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

**Symptoms** No information available

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

**Note to physicians** Treat symptomatically.

## Section 5: Firefighting measures

### 5.1. Extinguishing media

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**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

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

**Specific hazards arising from the chemical** No information available

## 5.3. Advice for firefighters

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **Section 6: Accidental release measures**

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

**For non-emergency personnel** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **Section 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

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**7.3. Specific end use(s)**

**Specific use(s)** Water based ink for inkjet printing machine

The information required is contained in this Material Safety Data Sheet.

**Section 8: Exposure controls and personal protection**

**8.1. Control parameters**

**Exposure Limits**

| Chemical name                     | European Union  | United Kingdom  | France  | Spain   | Germany  |
|-----------------------------------|---|---|---|---|--|
| Diethylene glycol<br>111-46-6     | -   | TWA: 23 ppm<br>TWA: 101 mg/m <sup>3</sup><br>STEL: 69 ppm<br>STEL: 303 mg/m <sup>3</sup>  | -   | -   | TWA: 10 ppm<br>TWA: 44 mg/m <sup>3</sup>   |
| Ethylene glycol<br>107-21-1       | TWA 20 ppm<br>TWA 52 mg/m <sup>3</sup><br>STEL 40 ppm<br>STEL 104 mg/m <sup>3</sup><br>*          | TWA: 10 mg/m <sup>3</sup><br>TWA: 20 ppm<br>TWA: 52 mg/m <sup>3</sup><br>STEL: 40 ppm<br>STEL: 104 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>Sk* | TWA: 20 ppm<br>TWA: 52 mg/m <sup>3</sup><br>STEL: 40 ppm<br>STEL: 104 mg/m <sup>3</sup><br>*  | TWA: 20 ppm<br>TWA: 52 mg/m <sup>3</sup><br>STEL: 40 ppm<br>STEL: 104 mg/m <sup>3</sup><br>via dérmica* | TWA: 10 ppm<br>TWA: 26 mg/m <sup>3</sup><br>H*   |
| Carbon Black (bound)<br>1333-86-4 | -   | TWA: 3.5 mg/m <sup>3</sup><br>STEL: 7 mg/m <sup>3</sup>   | TWA: 3.5 mg/m <sup>3</sup>  | TWA: 3.5 mg/m <sup>3</sup>  | -  |
| Acetone<br>67-64-1                | TWA 500 ppm<br>TWA 1210 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup><br>STEL: 1500 ppm<br>STEL: 3620 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 2420 mg/m <sup>3</sup> | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 1200 mg/m <sup>3</sup>  |
| Chemical name                     | Italy   | Portugal  | Netherlands   | Finland   | Denmark  |
| Diethylene glycol<br>111-46-6     | -   | -   | -   | -   | TWA: 2.5 ppm<br>TWA: 11 mg/m <sup>3</sup>  |
| Ethylene glycol<br>107-21-1       | TWA: 20 ppm<br>TWA: 52 mg/m <sup>3</sup><br>STEL: 40 ppm<br>STEL: 104 mg/m <sup>3</sup><br>pelle* | TWA: 20 ppm<br>TWA: 52 mg/m <sup>3</sup><br>STEL: 40 ppm<br>STEL: 104 mg/m <sup>3</sup><br>Ceiling: 100 mg/m <sup>3</sup><br>P*                           | TWA: 52 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup><br>STEL: 104 mg/m <sup>3</sup><br>H*   | TWA: 20 ppm<br>TWA: 50 mg/m <sup>3</sup><br>STEL: 40 ppm<br>STEL: 100 mg/m <sup>3</sup><br>iho*         | TWA: 10 ppm<br>TWA: 26 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup><br>H*              |
| Carbon Black (bound)<br>1333-86-4 | -   | TWA: 3.5 mg/m <sup>3</sup>  | -   | TWA: 3.5 mg/m <sup>3</sup><br>STEL: 7 mg/m <sup>3</sup>   | TWA: 3.5 mg/m <sup>3</sup>   |
| Acetone<br>67-64-1                | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup><br>STEL: 750 ppm  | TWA: 1210 mg/m <sup>3</sup><br>STEL: 2420 mg/m <sup>3</sup>                                   | TWA: 500 ppm<br>TWA: 1200 mg/m <sup>3</sup><br>STEL: 630 ppm<br>STEL: 1500 mg/m <sup>3</sup>            | TWA: 250 ppm<br>TWA: 600 mg/m <sup>3</sup>   |
| Chemical name                     | Austria   | Switzerland   | Poland  | Norway  | Ireland  |
| Diethylene glycol<br>111-46-6     | TWA: 10 ppm<br>TWA: 44 mg/m <sup>3</sup><br>STEL 40 ppm<br>STEL 176 mg/m <sup>3</sup>             | TWA: 10 ppm<br>TWA: 44 mg/m <sup>3</sup><br>STEL: 40 ppm<br>STEL: 176 mg/m <sup>3</sup>   | TWA: 10 mg/m <sup>3</sup>   | -   | TWA: 23 ppm<br>TWA: 100 mg/m <sup>3</sup><br>STEL: 69 ppm<br>STEL: 300 mg/m <sup>3</sup> |
| Ethylene glycol                   | TWA: 10 ppm   | TWA: 10 ppm   | STEL: 50 mg/m <sup>3</sup>  | TWA: 20 mg/m <sup>3</sup>   | TWA: 10 mg/m <sup>3</sup>  |

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|                                   |   |   |  |   |  |
|-----------------------------------|---|---|--|---|--|
| 107-21-1                          | TWA: 26 mg/m <sup>3</sup><br>STEL 20 ppm<br>STEL 52 mg/m <sup>3</sup><br>H*                 | TWA: 26 mg/m <sup>3</sup><br>STEL: 20 ppm<br>STEL: 52 mg/m <sup>3</sup><br>H*                 | TWA: 15 mg/m <sup>3</sup>                                  | TWA: 52 ppm<br>TWA: 52 mg/m <sup>3</sup><br>STEL: 104 mg/m <sup>3</sup><br>STEL: 40 ppm<br>H*     | TWA: 20 ppm<br>TWA: 52 mg/m <sup>3</sup><br>STEL: 40 ppm<br>STEL: 104 mg/m <sup>3</sup><br>Sk* |
| Carbon Black (bound)<br>1333-86-4 | -   | -   | TWA: 4.0 mg/m <sup>3</sup>                                 | TWA: 3.5 mg/m <sup>3</sup><br>STEL: 7 mg/m <sup>3</sup>   | TWA: 3 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup>   |
| Acetone<br>67-64-1                | TWA: 500 ppm<br>TWA: 1200 mg/m <sup>3</sup><br>STEL 2000 ppm<br>STEL 4800 mg/m <sup>3</sup> | TWA: 500 ppm<br>TWA: 1200 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 2400 mg/m <sup>3</sup> | STEL: 1800 mg/m <sup>3</sup><br>TWA: 600 mg/m <sup>3</sup> | TWA: 125 ppm<br>TWA: 295 mg/m <sup>3</sup><br>STEL: 1529.25 ppm<br>STEL: 368.75 mg/m <sup>3</sup> | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup><br>STEL: 1500 ppm<br>STEL: 3630 mg/m <sup>3</sup>  |

| Chemical name      | European Union | United Kingdom | France | Spain  | Germany |
|--------------------|----------------|----------------|--------|--------|---------|
| Acetone<br>67-64-1 | -              | -              | -      | 50     | 80 mg/L |
| Chemical name      | Austria        | Switzerland    | Poland | Norway | Ireland |
| Acetone<br>67-64-1 | -              | 80             | -      | -      | -       |

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

## 8.2. Exposure controls

**Appropriate engineering controls** Good general ventilation should be sufficient under normal use.

**Personal protective equipment** Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied:

**Eye/face protection** Safety goggles.

**Hand protection** Protective gloves.

**Skin and body protection** Long sleeved clothing and long pants.

**Respiratory protection** In case of large spillages: Wear suitable respiratory protective equipment.

**Environmental exposure controls** Avoid release to the environment.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

|                |        |
|----------------|--------|
| Physical state | Liquid |
| Color          | black  |
| Odor           | None.  |

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| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u>   |
|--------------------------------|--------------------------|---------------------------|
| Odor threshold                 | No information available |                           |
| pH                             | 8.0 - 9.5                |                           |
| Melting point / freezing point | 0 °C                     |                           |
| Boiling point / boiling range  | 100 °C                   |                           |
| Flash point                    | No data available        | None known                |
| Evaporation rate               | No data available        | None known                |
| Flammability (solid, gas)      | No data available        | None known                |
| Flammability Limit in Air      |                          | None known                |
| Upper flammability limit:      | No data available        |                           |
| Lower flammability limit:      | No data available        |                           |
| Vapor pressure                 | No data available        | None known                |
| Vapor density                  | No data available        | None known                |
| Relative density               | 1.1                      | (H <sub>2</sub> O=1)      |
| Water solubility               | Soluble in water         |                           |
| Solubility(ies)                | No data available        | None known                |
| Partition coefficient          | No data available        | None known                |
| Autoignition temperature       | No data available        | None known                |
| Decomposition temperature      | No data available        | None known                |
| Kinematic viscosity            | No data available        | None known                |
| Dynamic viscosity              | <6.0 mPa s               | @ 25°C                    |
| Explosive properties           | No information available | No information available. |
| Oxidizing properties           | No information available |                           |

## 9.2. Other information

No information available

## **Section 10: Stability and reactivity**

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

None known based on information supplied

### 10.5. Incompatible materials

None known based on information supplied

### 10.6. Hazardous decomposition products

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None known based on information supplied

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Product Information

|              |   |
|--------------|---|
| Inhalation   | No information available  |
| Eye contact  | No information available  |
| Skin contact | No information available  |
| Ingestion    | Specific test data for the substance or mixture is not available Harmful if swallowed (based on components) |

The following values are calculated based on chapter 3.1 of the GHS document

|                 |                 |
|-----------------|-----------------|
| ATEmix (oral)   | 1,778.50 mg/kg  |
| ATEmix (dermal) | 35,429.60 mg/kg |

|                                   |                          |
|-----------------------------------|--------------------------|
| Skin corrosion/irritation         | No information available |
| Serious eye damage/eye irritation | No information available |
| Respiratory or skin sensitization | No information available |
| Germ cell mutagenicity            | No information available |

#### Carcinogenicity

Printing inks: IARC Classification: Group 3 (Non-classified Human Carcinogen)  
Carbon Black: In 1996, the IARC re-evaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals, for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black and lung tumors.  
Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA

## Section 12: Ecological information

### 12.1. Toxicity



Product Name: GCX-4K-1, GCX-4K20-1, GCX-4K50-1, GCX-4K70-1

Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name        | Algae/aquatic plants   | Fish   | Toxicity to microorganisms   | Crustacea  |
|----------------------|--|--|--|--|
| Diethylene glycol    | -  | 75200: 96 h Pimephales promelas mg/L LC50 flow-through   | EC50 = 29228 mg/L 15 min   | 84000: 48 h Daphnia magna mg/L EC50  |
| Ethylene glycol      | 6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 41000: 96 h Oncorhynchus mykiss mg/L LC50 14 - 18: 96 h Oncorhynchus mykiss mL/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static | EC50 = 10000 mg/L 16 h<br>EC50 = 620 mg/L 30 min<br>EC50 = 620.0 mg/L 30 min | 46300: 48 h Daphnia magna mg/L EC50  |
| Carbon Black (bound) | -  | -  | -  | 5600: 24 h Daphnia magna mg/L EC50   |
| Acetone              | -  | 4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50  | EC50 = 14500 mg/L 15 min   | 10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50 |

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

There is no data for this product.

**Component Information**

| Chemical name              | Partition coefficient |
|----------------------------|-----------------------|
| Diethylene glycol          | -1.98                 |
| Ethylene glycol            | -1.93                 |
| Acetone                    | -0.24                 |
| 1,2-Benzisothiazolin-3-one | 1.3                   |

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

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No information available.

**12.6. Other adverse effects**

No information available.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Section 14: Transport information**

**IMDG**

|   |                          |
|---|--------------------------|
| 14.1 UN/ID no   | Not regulated            |
| 14.2 Proper shipping name   | Not regulated            |
| 14.3 Hazard Class   | Not regulated            |
| 14.4 Packing group  | Not regulated            |
| 14.5 Marine pollutant   | Not applicable           |
| 14.6 Special Provisions   | None                     |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | No information available |

**RID**

|                           |                |
|---------------------------|----------------|
| 14.1 UN/ID no             | Not regulated  |
| 14.2 Proper shipping name | Not regulated  |
| 14.3 Hazard Class         | Not regulated  |
| 14.4 Packing group        | Not regulated  |
| 14.5 Environmental hazard | Not applicable |
| 14.6 Special Provisions   | None           |

**ADR**

|                           |                |
|---------------------------|----------------|
| 14.1 UN/ID no             | Not regulated  |
| 14.2 Proper shipping name | Not regulated  |
| 14.3 Hazard Class         | Not regulated  |
| 14.4 Packing group        | Not regulated  |
| 14.5 Environmental hazard | Not applicable |
| 14.6 Special Provisions   | None           |

**IATA**

|                           |                |
|---------------------------|----------------|
| 14.1 UN/ID no             | Not regulated  |
| 14.2 Proper shipping name | Not regulated  |
| 14.3 Hazard Class         | Not regulated  |
| 14.4 Packing group        | Not regulated  |
| 14.5 Environmental hazard | Not applicable |

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14.6 Special Provisions None

## Section 15: Regulatory information

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

#### EU-Regulations

No information available

#### National Regulations

### 15.2. Chemical safety assessment

No information available

## Section 16: Other information

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

#### **Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

#### **Legend**

SVHC: Substances of Very High Concern for Authorization:

TWA

TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

\*\*

Trade secret

#### **Key literature references and sources for data**

No information available

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Revision Note Section1

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **Disclaimer**

The information relates only to this product. It may not be valid, if used in combination with any other materials or in any other process, and it is based on our best knowledge as of the date of preparation (revision).