Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

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

### 1.1 Product identifier

| Product name | $:$ Powerflow Paste Medium |
| :--- | :--- |
| Product code | $: 20437$ |
| Product type | $:$ Solid. |

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

| Identified uses |  |
| :--- | :--- |
| Consumer applications. |  |
| Material uses |  |
| soldering |  |


| Uses advised against |  |
| :--- | :--- |
| Not applicable. |  |


| e-mail address of person responsible for this SDS | Europeanregulatory@macdermid.com |
| :---: | :---: |
| Supplier | : Fernox <br> 2 Genesis Business Park <br> Albert Drive <br> Sheerwater <br> Woking GU21 5RW |
| Information contact | $\begin{aligned} & : \text { Tel. No.: }+44 \text { (0) } 3301007750 \\ & +44 \text { (0) } 3301007751 \end{aligned}$ <br> E-Mail: europeanregulatory@macdermid.com |


| 1.4 Emergency telephone number |  |
| :--- | :---: |
| National advisory body/Poison Centre |  |
| Telephone number |  |
| Supplier |  |
| Telephone number $:+44(0) 3301007750$ <br> Hours of operation $: 24 / 7$ |  |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition

## : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] *
Eye Dam. 1
The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Ingredients of unknown : 6.9 percent of the mixture consists of component(s) of unknown toxicity
toxicity
Ingredients of unknown : Contains $6.9 \%$ of components with unknown hazards to the aquatic environment ecotoxicity
$\left(^{*}\right)$ See full text of phrases in section 16
See Section 11 for more detailed information on health effects and symptoms.


| Signal word | : Danger |
| :---: | :---: |
| Hazard statements | : H318-Causes serious eye damage. |
| Precautionary statements |  |
| General | : P103-Read label before use. <br> P102 - Keep out of reach of children. <br> P101 - If medical advice is needed, have product container or label at hand. |
| Prevention | : P280 - Wear eye or face protection: Recommended: safety glasses with sideshields. |
| Response | : P305 + P351 + P310-IF IN EYES: Rinse cautiously with water for several minutes. Immediately call a POISON CENTER or physician. |
| Storage | Not applicable. |
| Disposal | Not applicable. |
| Hazardous ingredients | : Isotridecanol, ethoxylated |
| Supplemental label elements | : Not applicable. |

### 2.3 Other hazards

Other hazards which do : None known. not result in classification

## SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | $\%$ | Regulation (EC) No. <br> 1272/2008 [CLP] * | Type |
| :--- | :--- | :--- | :--- | :--- |
| Isotridecanol, ethoxylated | EC: 500-241-6 |  |  |  |
| CAS: 69011-36-5 | $\geq 10-<25$ | Acute Tox. 4, H302 <br> Eye Dam. 1, H318 <br> Aquatic Chronic 3, <br> H412 <br> Skin Corr. 1B, H314 <br> STOT SE 3, H335 | [1] [2] |  |
|  | REACH \#: <br> 01-2119479072-39 <br> EC: 233-113-0 <br> CAS: 10035-10-6 <br> Index: 035-002-01-8 | $\leq 3$ | (*) See full text of <br> phrases in section 16 |  |

## SECTION 3: Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.
Type
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
[5] Substance of equivalent concern
Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

| Eye contact | Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. |
| :---: | :---: |
| Inhalation | Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Skin contact | Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Protection of first-aiders | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

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

Potential acute health effects

| Eye contact | $:$ Causes serious eye damage. |
| :--- | :--- |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | $:$ No known significant effects or critical hazards. |
| Ingestion | $:$ No known significant effects or critical hazards. |


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| :--- | :--- |
| $: 14 / 10 / 2017$ |  |

## SECTION 4: First aid measures

## Over-exposure signs/symptoms

| Eye contact | Adverse symptoms may include the following pain watering redness |
| :---: | :---: |
| Inhalation | No specific data. |
| Skin contact | Adverse symptoms may include the following pain or irritation redness blistering may occur |
| Ingestion | Adverse symptoms may include the following: stomach pains |

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments
: No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing : None known. media
: Use an extinguishing agent suitable for the surrounding fire.

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

Hazards from the : No specific fire or explosion hazard.
substance or mixture
Hazardous combustion products
: Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds

### 5.3 Advice for firefighters

Special protective actions for fire-fighters

Special protective equipment for fire-fighters
: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| For non-emergency |  |
| :--- | :--- |
| personnel | $:$No action shall be taken involving any personal risk or without suitable training. <br> Evacuate surrounding areas. Keep unnecessary and unprotected personnel from <br> entering. Do not touch or walk through spilt material. Provide adequate ventilation. <br>  <br>  <br> Wear appropriate respirator when ventilation is inadequate. Put on appropriate |
| personal protective equipment. |  |

## SECTION 6: Accidental release measures

6.2 Environmental precautions
: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

Small spill

Large spill
: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

Protective measures

Advice on general occupational hygiene
: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store between the following temperatures: 5 to $30^{\circ} \mathrm{C}\left(41\right.$ to $\left.86^{\circ} \mathrm{F}\right)$. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

Consumer applications.
soldering

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
| :---: | :---: |
| hydrobromic acid | EH40/2005 WELs (United Kingdom (UK), 12/2011). |
|  | STEL: $10 \mathrm{mg} / \mathrm{m}^{3} 15$ minutes. |
|  | STEL: 3 ppm 15 minutes. |

## SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures

## DNELs/DMELs

No DNELs/DMELs available.

## PNECs

No PNECs available

### 8.2 Exposure controls

Appropriate engineering controls

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## Individual protection measures

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures

Eye/face protection

## Skin protection

Hand protection

Body protection

Other skin protection

Respiratory protection

Environmental exposure controls
: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: safety glasses with side-shields
: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): disposable vinyl
: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: None assigned.
: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: None assigned.
: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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| :--- | :--- |
| $: 14 / 10 / 2017$ |  |

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance | : Solid. [Paste.] |
| :--- | :--- |
| Physical state | : White to yellowi |
| Colour | : Characteristic. |
| Odour | : Not available. |
| Odour threshold | : Not available. |
| pH | : Not available. |
| Melting point/freezing point | : Not available. |
| Initial boiling point and | $:$ Not available. |
| boiling range | $:$ Not available. |
| Flash point | : Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or |  |
| explosive limits | Not available. |
| Vapour pressure | Not available. |
| Vapour density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | Not available. |
| Partition coefficient: n-octanol/ | water |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Viscosity | Not available. |
| Explosive properties | Not available. |
| Oxidising properties |  |

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

10.1 Reactivity
10.2 Chemical stability
10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur.
: No specific data.
: The product is stable.
10.4 Conditions to avoid : No specific data.
10.5 Incompatible materials : See Section 10.1.
10.6 Hazardous decomposition products
: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Conclusion/Summary : Not available.
Acute toxicity estimates

| Route | ATE value |
| :--- | :--- |
| Oral | $2127.7 \mathrm{mg} / \mathrm{kg}$ |

Irritation/Corrosion
Conclusion/Summary : Not available.
Sensitisation
Conclusion/Summary : Not available.
Mutagenicity
Conclusion/Summary : Not available.
Carcinogenicity
Conclusion/Summary : Not available.
Reproductive toxicity
Conclusion/Summary : Not available.
Teratogenicity
Conclusion/Summary : Not available.
Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of <br> exposure | Target organs |
| :--- | :--- | :--- | :--- |
| hydrobromic acid | Category 3 | Not applicable. | Respiratory tract <br> irritation |

## Specific target organ toxicity (repeated exposure)

Not available.

## Aspiration hazard

Not available.

Information on likely routes : Not available.
of exposure
Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact | $:$Adverse symptoms may include the following: <br> pain <br>  <br>  <br> watering <br> redness |
| :--- | :--- |
|  | $:$No specific data. <br> Inhalation <br> Skin contact |
|  | $:$Adverse symptoms may include the following: <br> pain or irritation <br> redness |
|  | blistering may occur |
| Ingestion | Adverse symptoms may include the following: |
|  | stomach pains |

Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure

| Potential immediate <br> effects | $:$ Not available. |
| :--- | :--- |
| Potential delayed effects | : Not available. |

Long term exposure

| Powerflow Paste Medium |
| :--- |
| SECTION 11: Toxicological information |


| Potential immediate <br> effects | : Not available. |
| :--- | :--- |
| Potential delayed effects |  | : Not available.

## Potential chronic health effects

Not available.

| Conclusion/Summary | : Not available. |
| :--- | :--- |
| General | : No known significant effects or critical hazards. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |
| Fertility effects | : No known significant effects or critical hazards. |

Other information : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
| :--- | :--- | :--- | :--- |
| Isotridecanol, ethoxylated | LC50 $>1 \mathrm{mg} / \mathrm{l}$ | Fish | 96 hours |

Conclusion/Summary : Not available.
12.2 Persistence and degradability

Conclusion/Summary : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
| :--- | :--- | :--- | :--- |
| Isotridecanol, ethoxylated | - | - | Not readily |

12.3 Bioaccumulative potential

Not available.
12.4 Mobility in soil

| Soil/water partition <br> coefficient (Koc) | : Not available. |
| :--- | :--- |
| Mobility | $:$ Not available. |

12.5 Results of PBT and vPvB assessment

| PBT | : Not applicable. |
| :--- | :--- |
| vPvB | : Not applicable. |
| 12.6 Other adverse effects | : No known significant effects or critical hazards. |

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).
13.1 Waste treatment methods

Product

## SECTION 13: Disposal considerations

Methods of disposal

Hazardous waste

Packaging
Methods of disposal

Special precautions
: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|  | ADR/RID | IMDG | IATA |
| :--- | :--- | :--- | :--- |
| 14.1 UN number | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper <br> shipping name | - | - | - |
| 14.3 Transport <br> hazard class(es) | - | - | - |
| 14.4 Packing <br> group | - | - | - |
| 14.5 <br> Environmental <br> hazards | No. | No. <br> Not a pollutant. |  |
| Additional <br> information | - | - | No. |

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are user upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk : Not available.
according to Annex II of
Marpol and the IBC Code

## SECTION 15: Regulatory information

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

## EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

## Annex XIV

None of the components are listed.
Substances of very high concern
None of the components are listed.

| Powerflow Paste Medium |
| :--- |
| SECTION 15: Regulatory information |

Annex XVII - Restrictions : Not applicable.
on the manufacture,
placing on the market
and use of certain
dangerous substances,
mixtures and articles
Other EU regulations
Europe inventory : All components are listed or exempted.
Ozone depleting substances (1005/2009/EU)
Not listed.

## Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

## Seveso Directive (2012/18/EU)

This product is not controlled under the Seveso Directive.

## International regulations

## Stockholm Convention on Persistent Organic Pollutants (850/2004)

Not listed.
International lists

| National inventory |  |
| :--- | :--- |
| Australia : Not determined. <br> Canada : At least one component is not listed in DSL but all such components are listed in <br>  NDSL. <br> China : All components are listed or exempted. <br> Japan : Japan inventory (ENCS): Not determined. <br>  Japan inventory (ISHL): Not determined. <br> Malaysia : Not determined. <br> New Zealand : Not determined. <br> Philippines : Not determined. <br> Republic of Korea : Not determined. <br> Taiwan : Not determined. <br> Turkey : Not determined. <br> United States : All components are listed or exempted.. |  |

15.2 Chemical safety : This product contains substances for which Chemical Safety Assessments are still assessment required.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and
acronyms
: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL $=$ Derived No Effect Level
EUH statement $=$ CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative
Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Powerflow Paste Medium 12/12

## SECTION 16: Other information

| Classification | Justification |
| :--- | :--- |
| Eye Dam. 1, H318 | Calculation method |

## Full text of abbreviated H statements

| H302 | Harmful if swallowed. |
| :--- | :--- |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

## Full text of classifications [CLP/GHS]

Acute Tox. 4, H302
Aquatic Chronic 3, H412
Eye Dam. 1, H318
Skin Corr. 1B, H314
STOT SE 3, H335

ACUTE TOXICITY (oral) - Category 4
LONG-TERM AQUATIC HAZARD - Category 3
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
SKIN CORROSION/IRRITATION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

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: 3.1

## Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

