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A Geno Technology, Inc. (USA) brand name

# Safety Data Sheet

Cat. # 786-1066

Giemsa Stain Stock Solution

Size: 500ml



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# GIEMSA Stock Solution

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Revision date: 5/11/2017

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : GIEMSA Stock Solution  
Product code : 132G  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

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

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#### 1.4. Emergency telephone number

Emergency number : Chemtrec **1-800-424-9300** (USA/Canada), **+1-703-527-3887** (Intl)

| Country        | Organisation/Company  | Address   | Emergency number | Comment |
|----------------|---|---|------------------|---------|
| United Kingdom | National Poisons Information Service (Belfast Centre)<br>Royal Victoria Hospital                                | Grosvenor Road<br>BT12 6BA Belfast                          | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital                                       | Dudley Road<br>B18 7QH Birmingham                           | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service (Cardiff Centre)<br>Gwenwyn Ward, Llandough Hospital                       | Penarth<br>CF64 2XX Cardiff                                 | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service Edinburgh<br>Royal Infirmary of Edinburgh                                  | Little France Crescent<br>EH16 4SA Edinburgh                | 0344 892 0111    |         |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit,<br>Guy's & St Thomas' Hospital<br>Trust             | Avonley Road<br>SE14 5ER London                             | +44 20 7188 7188 |         |
| United Kingdom | National Poisons Information Service (Newcastle Centre)<br>Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place<br>Newcastle-upon-Tyne<br>NE1 4LP Newcastle | 0344 892 0111    |         |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226  
Acute toxicity (oral), Category 3 H301  
Acute toxicity (inhalation:dust,mist) Category 4 H332  
Specific target organ toxicity — Single exposure, Category 1 H370  
Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes damage to organs. Toxic if swallowed. Harmful if inhaled.

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02

GHS06

GHS08

CLP Signal word

: Danger

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.  
H301 - Toxic if swallowed.  
H332 - Harmful if inhaled.  
H370 - Causes damage to organs.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground and bond container and receiving equipment.  
P241 - Use explosion-proof equipment.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.  
P312 - Call a POISON CENTRE or doctor if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P330 - Rinse mouth.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                              | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|-----------------------------------|--|---------|---|
| methanol                          | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6<br>(EC Index-No.) 603-001-00-X | 10 - 50 | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Inhalation:vapour), H331<br>STOT SE 1, H370 |
| glycerol                          | (CAS-No.) 56-81-5<br>(EC-No.) 200-289-5                                | 10 - 50 | Not classified  |
| Giemsa azur eosine methylene blue |  | 0.5 - 2 | Eye Irrit. 2, H319  |

#### Specific concentration limits:

| Name     | Product identifier   | Specific concentration limits                                    |
|----------|--|--|
| methanol | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6<br>(EC Index-No.) 603-001-00-X | ( 3 =<C < 10) STOT SE 2, H371<br>( 10 =<C < 100) STOT SE 1, H370 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: Call a physician immediately.

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|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing.                                       |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.  |
| First-aid measures after ingestion    | : Rinse mouth. Call a physician immediately.  |

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

No additional information available

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Fire hazard : Flammable liquid and vapour.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Ground/bond container and receiving equipment.  
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

methanol (67-56-1)

#### EU - Occupational Exposure Limits

|                                |                       |
|--------------------------------|-----------------------|
| IOELV TWA (mg/m <sup>3</sup> ) | 260 mg/m <sup>3</sup> |
| IOELV TWA (ppm)                | 200 ppm               |

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| United Kingdom - Occupational Exposure Limits |                       |
|---|-----------------------|
| WEL TWA (mg/m <sup>3</sup> )                  | 266 mg/m <sup>3</sup> |
| WEL TWA (ppm)                                 | 200 ppm               |
| WEL STEL (mg/m <sup>3</sup> )                 | 333 mg/m <sup>3</sup> |
| WEL STEL (ppm)                                | 250 ppm               |

| glycerol (56-81-5)                            |                      |
|---|----------------------|
| United Kingdom - Occupational Exposure Limits |                      |
| WEL TWA (mg/m <sup>3</sup> )                  | 10 mg/m <sup>3</sup> |

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

|  |
|--|
| <b>Hand protection:</b>  |
| Protective gloves  |
| <b>Eye protection:</b>   |
| Safety glasses   |
| <b>Skin and body protection:</b>                                 |
| Wear suitable protective clothing                                |
| <b>Respiratory protection:</b>                                   |
| [In case of inadequate ventilation] wear respiratory protection. |

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|  |                     |
|--|---------------------|
| Physical state                             | : Liquid            |
| Colour                                     | : No data available |
| Odour                                      | : No data available |
| Odour threshold                            | : No data available |
| pH   | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : Not applicable    |
| Freezing point                             | : No data available |
| Boiling point                              | : No data available |
| Flash point                                | : 27 °C             |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : Not applicable    |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : No data available |
| Relative density                           | : No data available |
| Solubility                                 | : No data available |
| Log Pow                                    | : No data available |
| Viscosity, kinematic                       | : No data available |
| Viscosity, dynamic                         | : No data available |
| Explosive properties                       | : No data available |
| Oxidising properties                       | : No data available |
| Explosive limits                           | : No data available |

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Toxic if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Harmful if inhaled.

| GIEMSA Stock Solution |                          |
|-----------------------|--------------------------|
| ATE CLP (oral)        | 201.532 mg/kg bodyweight |
| ATE CLP (dust,mist)   | 1.008 mg/l/4h            |

#### methanol (67-56-1)

|                            |  |
|----------------------------|--|
| LD50 oral rat              | 1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Weight of evidence, Aqueous solution, Oral, 7 day(s)) |
| LD50 dermal rabbit         | 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)  |
| LC50 inhalation rat (mg/l) | 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))                      |

#### glycerol (56-81-5)

|                            |  |
|----------------------------|--|
| LD50 oral rat              | 27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral)                       |
| LD50 dermal                | 56750 mg/kg (4 day(s), Guinea pig, Male / female, Experimental value, Dermal, 14 day(s))                 |
| LC50 inhalation rat (mg/l) | > 2.75 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Converted value, Inhalation (vapours)) |

|                                   |                            |
|-----------------------------------|----------------------------|
| Skin corrosion/irritation         | : Not classified           |
| Serious eye damage/irritation     | : Not classified           |
| Respiratory or skin sensitisation | : Not classified           |
| Germ cell mutagenicity            | : Not classified           |
| Carcinogenicity                   | : Not classified           |
| Reproductive toxicity             | : Not classified           |
| STOT-single exposure              | : Causes damage to organs. |
| STOT-repeated exposure            | : Not classified           |
| Aspiration hazard                 | : Not classified           |

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

| methanol (67-56-1) |  |
|--------------------|--|
| LC50 fish 1        | 15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)                                 |
| EC50 Daphnia 1     | 18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect) |

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|               |  |
|---------------|--|
| ErC50 (algae) | 22000 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value) |
|---------------|--|

| glycerol (56-81-5) |  |
|--------------------|--|
| LC50 fish 1        | 54000 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)           |
| EC50 Daphnia 1     | > 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |

### 12.2. Persistence and degradability

| methanol (67-56-1)              |  |
|---------------------------------|--|
| Persistence and degradability   | Readily biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.6 - 1.12 g O <sub>2</sub> /g substance                           |
| Chemical oxygen demand (COD)    | 1.42 g O <sub>2</sub> /g substance                                 |
| ThOD                            | 1.5 g O <sub>2</sub> /g substance                                  |

| glycerol (56-81-5)              |                                     |
|---------------------------------|-------------------------------------|
| Persistence and degradability   | Readily biodegradable in water.     |
| Biochemical oxygen demand (BOD) | 0.87 g O <sub>2</sub> /g substance  |
| Chemical oxygen demand (COD)    | 1.16 g O <sub>2</sub> /g substance  |
| ThOD                            | 1.217 g O <sub>2</sub> /g substance |
| BOD (% of ThOD)                 | 0.71                                |

### 12.3. Bioaccumulative potential

| methanol (67-56-1)        |   |
|---------------------------|---|
| BCF fish 1                | 1 - 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value) |
| Log Pow                   | -0.77 (Experimental value)  |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500).                                  |

| Giemsa azur eosine methylene blue |  |
|-----------------------------------|--|
| Bioaccumulative potential         | Contains bioaccumulative component(s). |

| glycerol (56-81-5)        |  |
|---------------------------|--|
| Log Pow                   | -1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C) |
| Bioaccumulative potential | Not bioaccumulative.   |

### 12.4. Mobility in soil

| methanol (67-56-1) |  |
|--------------------|--|
| Surface tension    | 0.023 N/m (20 °C)                                    |
| Log Koc            | 0.088 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil     | Highly mobile in soil.                               |

| Giemsa azur eosine methylene blue |  |
|-----------------------------------|--|
| Ecology - soil                    | No (test)data on mobility of the components available. |

| glycerol (56-81-5) |   |
|--------------------|---|
| Surface tension    | 0.0634 N/m (20 °C, 1000 g/l)                          |
| Ecology - soil     | No (test)data on mobility of the substance available. |

### 12.5. Results of PBT and vPvB assessment

| Component          |   |
|--------------------|---|
| methanol (67-56-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

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|                    |   |
|--------------------|---|
| glycerol (56-81-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
|--------------------|---|

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                         |  |
|-------------------------|--|
| Waste treatment methods | : Waste treatment methods.                           |
| Additional information  | : Flammable vapours may accumulate in the container. |

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : UN 1230        |
| UN-No. (IATA) | : UN 1230        |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

### 14.2. UN proper shipping name

|                                       |   |
|---------------------------------------|---|
| Proper Shipping Name (ADR)            | : Not applicable                            |
| Proper Shipping Name (IMDG)           | : METHANOL                                  |
| Proper Shipping Name (IATA)           | : Methanol                                  |
| Proper Shipping Name (ADN)            | : Not applicable                            |
| Proper Shipping Name (RID)            | : Not applicable                            |
| Transport document description (IMDG) | : UN 1230 METHANOL, 3 (6.1), II (12°C c.c.) |
| Transport document description (IATA) | : UN 1230 Methanol, 3 (6.1), II             |

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : 3 (6.1)  
Danger labels (IMDG) : 3, 6.1



#### IATA

Transport hazard class(es) (IATA) : 3 (6.1)  
Hazard labels (IATA) : 3, 6.1



#### ADN

Transport hazard class(es) (ADN) : Not applicable

#### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : Not applicable |
| Packing group (IMDG) | : II             |
| Packing group (IATA) | : II             |
| Packing group (ADN)  | : Not applicable |
| Packing group (RID)  | : Not applicable |

### 14.5. Environmental hazards

Dangerous for the environment : No



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Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Special provisions (IMDG) : 279  
Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP2  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-D  
Stowage category (IMDG) : B  
Stowage and handling (IMDG) : SW2  
Flash point (IMDG) : 12°C c.c.  
Properties and observations (IMDG) : Colourless, volatile liquid. Flashpoint: 12°C c.c. Explosive limits: 6% to 36.5% Miscible with water. Toxic if swallowed; may cause blindness. Avoid skin contact.

#### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 352  
PCA max net quantity (IATA) : 1L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A113  
ERG code (IATA) : 3L

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances  
Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.  
Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

#### Full text of H- and EUH-statements:

|                           |                                     |
|---------------------------|-------------------------------------|
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
|---------------------------|-------------------------------------|

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|                                  |  |
|----------------------------------|--|
| Acute Tox. 3 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 3                |
| Acute Tox. 3 (Oral)              | Acute toxicity (oral), Category 3                            |
| Eye Irrit. 2                     | Serious eye damage/eye irritation, Category 2                |
| Flam. Liq. 2                     | Flammable liquids, Category 2                                |
| STOT SE 1                        | Specific target organ toxicity — Single exposure, Category 1 |
| STOT SE 2                        | Specific target organ toxicity — Single exposure, Category 2 |
| H225                             | Highly flammable liquid and vapour.                          |
| H226                             | Flammable liquid and vapour.                                 |
| H301                             | Toxic if swallowed.  |
| H319                             | Causes serious eye irritation.                               |
| H331                             | Toxic if inhaled.  |
| H332                             | Harmful if inhaled.  |
| H370                             | Causes damage to organs.                                     |
| H371                             | May cause damage to organs.                                  |

Safety Data Sheet applicable for regions : GB - United Kingdom

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*