

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## Sika® Aktivator DM-1

Date of last issue: 07.06.2023  
Revision Date: 07.08.2023

Version 7.0

Print Date 07.08.2023

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

#### 1.1 Product identifier

Trade name : Sika® Aktivator DM-1

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

Product use : Pretreatment agent

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

Company name of supplier : Sika Limited  
Watchmead Welwyn Garden City  
Hertfordshire. AL7 1BQ  
Telephone : +44 (0)1707 394444  
Telefax : +44 (0)1707 329129  
E-mail address of person : EHS@uk.sika.com  
responsible for the SDS

#### 1.4 Emergency telephone number

National Chemical Emergency Centre (NCEC)  
24 Hour Emergency Telephone Number +44 870 190 6777

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

|  |  |
|--|--|
| Flammable liquids, Category 2  | H225: Highly flammable liquid and vapour.              |
| Skin irritation, Category 2  | H315: Causes skin irritation.                          |
| Eye irritation, Category 2   | H319: Causes serious eye irritation.                   |
| Skin sensitisation, Category 1   | H317: May cause an allergic skin reaction.             |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness.               |
| Aspiration hazard, Category 1  | H304: May be fatal if swallowed and enters airways.    |
| Long-term (chronic) aquatic hazard, Category 2                                       | H411: Toxic to aquatic life with long lasting effects. |

#### 2.2 Label elements

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

Hazard pictograms :



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|                          |   |                    |   |
|--------------------------|---|--------------------|---|
| Signal word              | : | Danger             |   |
| Hazard statements        | : | H225               | Highly flammable liquid and vapour.   |
|                          |   | H304               | May be fatal if swallowed and enters airways.   |
|                          |   | H315               | Causes skin irritation.   |
|                          |   | H317               | May cause an allergic skin reaction.  |
|                          |   | H319               | Causes serious eye irritation.  |
|                          |   | H336               | May cause drowsiness or dizziness.  |
|                          |   | H411               | Toxic to aquatic life with long lasting effects.  |
| Precautionary statements | : | <b>Prevention:</b> |   |
|                          |   | P210               | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.    |
|                          |   | P273               | Avoid release to the environment.   |
|                          |   | P280               | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. |
|                          |   | <b>Response:</b>   |   |
|                          |   | P301 + P310        | IF SWALLOWED: Immediately call a POISON CENTER/ doctor.   |
|                          |   | P331               | Do NOT induce vomiting.   |
|                          |   | P370 + P378        | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.              |
|                          |   | P391               | Collect spillage.   |

### Hazardous components which must be listed on the label:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  
3-trimethoxysilylpropane-1-thiol  
tris(dodecylbenzenesulphonato-O)(propan-2-olato)titanium

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

| Chemical name   | CAS-No.<br>EC-No.<br>Registration number  | Classification   | Concentration<br>(% w/w) |
|---|---|--|--------------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>Contains:<br>cyclohexane >= 2 % | Not Assigned<br>927-510-4<br>01-2119475515-33-XXXX [corresponding group CAS 64742-49-0] | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2; H411                                   | >= 40 - < 60             |
| ethanol   | 64-17-5<br>200-578-6<br>01-2119457610-43-XXXX   | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br><br>specific concentration limit<br>Eye Dam. 2; H319<br>>= 50 %                                    | >= 25 - < 40             |
| 3-trimethoxysilylpropane-1-thiol<br>Contains:<br>methanol <= 0,99 %                 | 4420-74-0<br>224-588-5<br>01-2120763539-41-XXXX   | Acute Tox. 4; H302<br>Skin Sens. 1B; H317<br>Aquatic Chronic 2; H411<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>1.701 mg/kg | >= 1 - < 2,5             |
| tris(dodecylbenzenesulphonato-O)(propan-2-olato)titanium                            | 61417-55-8<br>262-777-4   | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317  | >= 1 - < 2,5             |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.

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- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

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

- Symptoms : Aspiration may cause pulmonary oedema and pneumonitis.  
Allergic reactions  
Excessive lachrymation  
Erythema  
Dermatitis  
Loss of balance  
Vertigo  
See Section 11 for more detailed information on health effects and symptoms.
- Risks : Risk of serious damage to the lungs (by aspiration).  
irritant effects  
sensitising effects
- May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

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

- Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : Water  
High volume water jet

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

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.  
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.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Remove all sources of ignition.  
Deny access to unprotected persons.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 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 material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Country GB 000000101141

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Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharge.  
Open drum carefully as content may be under pressure.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Follow standard hygiene measures when handling chemical products

Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Store in cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with local regulations.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components  | CAS-No. | Value type (Form of exposure) | Control parameters *                 | Basis * |
|---|---------|-------------------------------|--------------------------------------|---------|
| ethanol   | 64-17-5 | TWA                           | 1.000 ppm<br>1.920 mg/m <sup>3</sup> | GB EH40 |
| Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. |         |                               |                                      |         |

\*The above mentioned values are in accordance with the legislation in effect at the date of the re-

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lease of this safety data sheet.

### Occupational exposure limits of decomposition products

| Components | CAS-No.  | Value type (Form of exposure) | Control parameters *             | Basis *    |
|------------|--|-------------------------------|----------------------------------|------------|
| methanol   | 67-56-1  | TWA                           | 200 ppm<br>260 mg/m <sup>3</sup> | 2006/15/EC |
|            | Further information: Indicative, Identifies the possibility of significant uptake through the skin   |                               |                                  |            |
|            |  | TWA                           | 200 ppm<br>266 mg/m <sup>3</sup> | GB EH40    |
|            | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                  |            |
|            |  | STEL                          | 250 ppm<br>333 mg/m <sup>3</sup> | GB EH40    |

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

## 8.2 Exposure controls

### Engineering measures

Maintain air concentrations below occupational exposure standards.  
Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

- Eye/face protection : Safety glasses with side-shields conforming to EN166  
Eye wash bottle with pure water
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
- Suitable for short time use or protection against splashes:  
Butyl rubber/nitrile rubber gloves (> 0,1 mm)  
Contaminated gloves should be removed.
- Suitable for permanent exposure:  
Viton gloves (0.4 mm),  
breakthrough time >30 min.
- Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.  
organic vapor filter (Type A)  
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm  
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in par-

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ticular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

### Environmental exposure controls

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

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid  
Colour : colourless  
Odour : characteristic

Melting point/range / Freezing point : No data available

Boiling point/boiling range : ca. 78 °C

Flammability (solid, gas) : No data available

### Upper/lower flammability or explosive limits

Upper explosion limit / Upper flammability limit : 7 %(V)

Lower explosion limit / Lower flammability limit : 0,6 %(V)

Flash point : ca. -4 °C  
Method: closed cup

Auto-ignition temperature : 200 °C

Decomposition temperature : No data available

pH : Not applicable  
substance/mixture is non-soluble (in water)

### Viscosity

Viscosity, kinematic : < 6,9 mm<sup>2</sup>/s (40 °C)

### Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-octanol/water : No data available



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|                          |   |                                    |
|--------------------------|---|------------------------------------|
| Vapour pressure          | : | 75,9935 hPa                        |
| Density                  | : | ca. 0,74 g/cm <sup>3</sup> (20 °C) |
| Relative vapour density  | : | No data available                  |
| Particle characteristics | : | No data available                  |

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : methanol

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified due to lack of data.

#### Components:

##### **3-trimethoxysilylpropane-1-thiol:**

Acute oral toxicity : LD50 Oral (Rat): 1.701 mg/kg

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Acute toxicity estimate: 1.701 mg/kg  
Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rat): 2.583 mg/kg

### **Skin corrosion/irritation**

Causes skin irritation.

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified due to lack of data.

#### **Germ cell mutagenicity**

Not classified due to lack of data.

#### **Carcinogenicity**

Not classified due to lack of data.

#### **Reproductive toxicity**

Not classified due to lack of data.

#### **STOT - single exposure**

May cause drowsiness or dizziness.

#### **STOT - repeated exposure**

Not classified due to lack of data.

#### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

## **11.2 Information on other hazards**

### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **3-trimethoxysilylpropane-1-thiol:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 12,3 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 6,7 mg/l  
aquatic invertebrates Exposure time: 48 h

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

##### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

#### 12.6 Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

##### Product:

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

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : The generation of waste should be avoided or minimized wherever possible.  
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.  
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.  
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.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- European Waste Catalogue : 08 01 11\* waste paint and varnish containing organic solvents or other dangerous substances
- Contaminated packaging : 15 01 10\* packaging containing residues of or contaminated by dangerous substances

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

- ADR : UN 1866  
IMDG : UN 1866  
IATA : UN 1866

#### 14.2 UN proper shipping name

- ADR : RESIN SOLUTION  
IMDG : RESIN SOLUTION  
(n-heptane)  
IATA : Resin solution

#### 14.3 Transport hazard class(es)

- |      | Class | Subsidiary risks |
|------|-------|------------------|
| ADR  | : 3   |                  |
| IMDG | : 3   |                  |
| IATA | : 3   |                  |

#### 14.4 Packing group

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### ADR

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

### IMDG

Packing group : II  
Labels : 3  
EmS Code : F-E, S-E

### IATA (Cargo)

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

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|   |     |   |
|---|-----|---|
| UK REACH List of restrictions (Annex 17)  | :   | Not applicable  |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation                             | :   | Not applicable  |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | :   | Not applicable  |
| International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors                     | :   | Not applicable  |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer   | :   | Not applicable  |
| UK REACH List of substances subject to authorisation (Annex XIV)  | :   | Not applicable  |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation                           | :   | Not applicable  |
| Control of Major Accident Hazards Regulations 2015 (COMAH)  | P5c | FLAMMABLE LIQUIDS   |
|   | E2  | ENVIRONMENTAL HAZARDS   |
|   | 34  | Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d) |
| Volatile organic compounds  | :   | Law on the incentive tax for volatile organic compounds (VOCV)<br>Volatile organic compounds (VOC) content: 95,6% w/w<br><br>Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)<br>Volatile organic compounds (VOC) content: 95,6% w/w  |

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environ- : Environmental Protection Act 1990 & Subsidiary Regulations

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mental regulation/legislation specific for the substance or mixture:

Health and Safety at Work Act 1974 & Subsidiary Regulations  
Control of Substances Hazardous to Health Regulations (COSHH)  
May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

### Full text of H-Statements

|      |   |  |
|------|---|--|
| H225 | : | Highly flammable liquid and vapour.              |
| H302 | : | Harmful if swallowed.                            |
| H304 | : | May be fatal if swallowed and enters airways.    |
| H314 | : | Causes severe skin burns and eye damage.         |
| H315 | : | Causes skin irritation.                          |
| H317 | : | May cause an allergic skin reaction.             |
| H318 | : | Causes serious eye damage.                       |
| H319 | : | Causes serious eye irritation.                   |
| H336 | : | May cause drowsiness or dizziness.               |
| H411 | : | Toxic to aquatic life with long lasting effects. |

### Full text of other abbreviations

|                  |   |   |
|------------------|---|---|
| Acute Tox.       | : | Acute toxicity  |
| Aquatic Chronic  | : | Long-term (chronic) aquatic hazard  |
| Asp. Tox.        | : | Aspiration hazard   |
| Eye Dam.         | : | Serious eye damage  |
| Eye Irrit.       | : | Eye irritation  |
| Flam. Liq.       | : | Flammable liquids   |
| Skin Corr.       | : | Skin corrosion  |
| Skin Irrit.      | : | Skin irritation   |
| Skin Sens.       | : | Skin sensitisation  |
| STOT SE          | : | Specific target organ toxicity - single exposure                                    |
| 2006/15/EC       | : | Europe. Indicative occupational exposure limit values                               |
| GB EH40          | : | UK. EH40 WEL - Workplace Exposure Limits  |
| 2006/15/EC / TWA | : | Limit Value - eight hours   |
| GB EH40 / TWA    | : | Long-term exposure limit (8-hour TWA reference period)                              |
| GB EH40 / STEL   | : | Short-term exposure limit (15-minute reference period)                              |
| ADR              | : | European Agreement concerning the International Carriage of Dangerous Goods by Road |

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|        |   |  |
|--------|---|--|
| CAS    | : | Chemical Abstracts Service   |
| DNEL   | : | Derived no-effect level  |
| EC50   | : | Half maximal effective concentration   |
| GHS    | : | Globally Harmonized System   |
| IATA   | : | International Air Transport Association  |
| IMDG   | : | International Maritime Code for Dangerous Goods  |
| LD50   | : | Median lethal dose (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)  |
| LC50   | : | Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)   |
| MARPOL | : | International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978  |
| OEL    | : | Occupational Exposure Limit  |
| PBT    | : | Persistent, bioaccumulative and toxic  |
| PNEC   | : | Predicted no effect concentration  |
| REACH  | : | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency |
| SVHC   | : | Substances of Very High Concern  |
| vPvB   | : | Very persistent and very bioaccumulative   |

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Flam. Liq. 2      | H225 |
| Skin Irrit. 2     | H315 |
| Eye Irrit. 2      | H319 |
| Skin Sens. 1      | H317 |
| STOT SE 3         | H336 |
| Asp. Tox. 1       | H304 |
| Aquatic Chronic 2 | H411 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

||| Changes as compared to previous version !

GB / EN



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