

# SAFETY DATA SHEET



Version 16.1 replaces Version 15.1  
Revision date: 29/04/2016  
According to (EU) No. 2015/830

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

- 1.1 Product identifier:** MAGNAVIS® WCP-2 - aerosol
- 1.2 Relevant identified uses of the mixture and uses advised against:**  
**Relevant identified uses:** White contrast paint used in Magnetic Particle Inspection (MPI).  
**Uses advised against:** This product is not recommended for any use other than the identified uses above.
- 1.3 Details of the supplier of the safety data sheet**  
**Manufacturer:** Magnaflux® (A division of ITW Ltd)  
**Address:** Faraday Road, South Dorcan Industrial Estate, Swindon, UK  
**Postcode:** SN3 5HE  
**Telephone/fax number:** Telephone: +44 (0)1793 524566  
Fax: +44 (0)1793 490459  
Web: [www.eu.magnaflux.com](http://www.eu.magnaflux.com)  
**Email address of competent person responsible for SDS:** datasheets@magnaflux.co.uk  
**National contact:** None appointed
- 1.4 Emergency telephone number:** T: +44 (0)1793 524566 (office hours)  
**Opening hours:** Office hours (GMT) Monday - Thursday 8am - 5pm, Friday 8am - 4pm  
**Other comments:** Emergency telephone service is provided in English only.

## SECTION 2 HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**Classification according to Regulation (EC) No 1272/2008 (CLP):** **Physical and Chemical Hazard:** Aerosol 1 H222, H229  
**Health Hazard:** Eye Irrit. 2 H319  
STOT SE 3 H336  
**Environmental Hazard:** None  
**Additional information** EUH066

For full text of hazard statements and EU hazard statements see SECTION 16.

- 2.2 Label Elements:**  
Labelling according to regulation (EC) No 1272/2008 [CLP]  
**Hazard Pictograms:**



**Signal Word:** Danger

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## Hazard Statement(s):

H222: Extremely Flammable Aerosol.  
H229: Pressurised container: may burst if heated.

## Precautionary Statement(s):

H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.  
P210: Keep away from heat, sparks, open flames and hot surfaces. No smoking.  
P211: Do not spray on an open flame or other ignition source.  
P251: Do not pierce or burn, even after use.  
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

## Supplementary Precautionary Statement(s):

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P271: Use only outdoors or in a well-ventilated area.

## Supplementary Hazard Information (EU)

### Hazard Determining Component(s)

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P303+P361+P353: IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.

P501: Dispose of contents/container to hazardous waste or special collection point.

EUH066: Repeated exposure may cause skin dryness or cracking.

Acetone

## 2.3

### Other hazards:

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C.

Vapours can form explosive mixtures in air.

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## SECTION 3

## COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixtures

| Ingredient Name   | CAS No     | EC No     | REACH Registration Number | % Wt  | Classification according to Regulation (EC) No 1272/2008 [CLP]             | Additional information |
|---|------------|-----------|---------------------------|-------|--|------------------------|
| Acetone   | 67-64-1    | 200-622-2 | 01-2119471330-49          | < 50  | Flam. Liq. 2 H225<br>Eye Irrit. 2 H319<br>STOT SE 3 H336.                  | EUH066                 |
| Hydrocarbons, C3-4-rich petroleum distillate petroleum gas (1,3 butadiene < 0,1%) | 68512-91-4 | 270-990-9 | (1)                       | < 40  | Press. Gas H280<br>Flam. Gas 1 H220  | (2)                    |
| Titanium Dioxide  | 13463-67-7 | 236-675-5 | 01-2119489379-17          | < 10  | Not classified   | Has WEL                |
| 1,2-Benzenedi carboxylic acid, di-C8-C10-branched alkyl esters, C9-rich           | 68515-48-0 | 271-090-9 | 01-2119432682-41          | < 2   | Not classified   | Has DNEL               |
| Amorphous silica  | 7631-86-9  | 231-545-4 | 01-2119379499-16          | < 0.2 | Not classified   | Has WEL                |
| Butan-2-ol  | 78-92-2    | 201-158-5 | 01-2119475146-36          | < 0.2 | Flam. Liq. 3 H226<br>Eye Irrit. 2 H319<br>STOT SE 3 H336<br>STOT SE 3 H335 | Has WEL                |

- Exempted from the obligation to register in accordance with art.2(7)(a) of REACH Regulation No 1907/2006
- Not classified as carcinogen, less than 0.1% w/w 1,3 butadiene (EINECS no 203-450-8)

Note: Hazard statement(s) in this section apply only to raw materials, not necessarily to finished products.

\*See Section 16 for hazard statement(s) text in full.

## SECTION 4

## FIRST AID MEASURES

### 4.1 Description of first aid measures:

#### General notes:

If symptoms persist, seek medical attention. Show this safety data sheet to the doctor in attendance.

#### Following inhalation:

Remove to fresh air. Keep at rest. If unconscious place in the recovery position. If not breathing give artificial respiration.

#### Following skin contact:

Seek medical attention if symptoms occur. Immediately remove contaminated clothing. Flush with water, use soap if available. Wash contaminated clothing before re-use.

#### Following eye contact:

Seek medical attention if irritation persists. Flush eyes with large amounts of water for at least 10 minutes. Remove contact lenses if present and easy to do – continue rinsing. Seek immediate medical attention if irritation persists.

#### Following ingestion:

Unlikely route of exposure. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly and seek medical attention if symptoms occur.

#### Self-protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. If it is suspected that the mixture is still present, wear appropriate personal protective equipment.

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- 4.2 **Most important symptoms, both acute and delayed:**  
Irritation to eyes, no delayed effects known.
- 4.3 **Indication of any immediate medical attention and special treatment needed:**  
None known.

## SECTION 5 FIREFIGHTING MEASURES

- 5.1 **Extinguishing media:**  
**Suitable extinguishing media:** Foam, carbon dioxide, dry powder or other inert material.
- 5.2 **Unsuitable extinguishing media:** High pressure water jet.  
**Special hazards arising from the substance or mixture:** Evacuate immediate area. Shut off 'fuel' to fire. If possible keep unaffected containers cool with water spray.  
Aerosols may explode in a fire.  
Aerosol contents are extremely flammable.
- Hazardous combustion products:** Smoke, soot and oxides of carbon.  
Burning vapour may give off toxic fumes.
- 5.3 **Advice for fire-fighter:**  
Warn firefighters that aerosols are involved.  
Self contained breathing apparatus and full protective clothing must be worn.  
Water spray should be used to cool containers.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures:**  
Suitable protective equipment (see Section 8) should be worn to prevent any contamination of skin, eyes and personal clothing.
- For non-emergency personnel:** Shut off ignition source. Avoid breathing vapours, mist or gas and ensure adequate ventilation.
- For emergency responders:** Remove ignition sources. Avoid breathing vapours and ensure adequate ventilation.  
Keep unnecessary people at a safe distance.
- 6.2 **Environmental precautions:**  
Prevent liquid from entering drains, sewers and watercourses. Notify the Environment Agency or water authorities if a major spillage occurs. Prevent product contaminating soil.
- 6.3 **Methods and material for containment and cleaning up:**  
Ventilate well. Eliminate sources of ignition. Take measure to prevent the build-up of electrostatic charge.
- For containment:** Contain spillage, and then collect with non-combustible absorbent material (e.g. Sand, earth, diatomaceous earth, vermiculite) and place in a UN approved container for disposal.  
Large spills should be pumped (using an earthed explosion proof pump) into UN approved containers pending disposal.  
Dispose or waste according to local/national regulations.
- For cleaning up:** Rinse site with copious amounts of water, which should not be allowed into drains, sewers or watercourses.  
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities.
- Other information:** No other information.

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6.4 **Reference to other sections:**  
For Personal Protective Equipment see Section 8. For disposal information see Section 13.

## SECTION 7 HANDLING & STORAGE

|     |  |  |
|-----|--|--|
| 7.1 | <b>Precautions for safer handling:</b><br><b>Protective Measures:</b>  | Wear suitable protective clothing such as chemical resistant gloves, apron and goggles/face mask to protect from splashes. Avoid contact with skin and eyes. Do not breathe product spray or mist. Ensure adequate exhaust ventilation when in use. Aerosol contents are highly flammable and volatile. Keep away from sources of ignition - no smoking. Take measures to prevent the build-up of electrostatic charge. Equipment should be earthed. Use explosion proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Wash thoroughly after handling. |
|     | <b>Measures to prevent fire:</b>   |  |
|     | <b>Advice on general occupational hygiene:</b>   |  |
| 7.2 | <b>Conditions for safe storage, including any incompatibilities:</b><br><b>Technical measures and storage conditions:</b><br><b>Packaging materials:</b><br><b>Requirements for storage rooms and vessels:</b> | Store in original container in a cool dry area away from heat and sources of ignition. Store in original container. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Recommended storage temperature 10 °C to 30 °C. Rotate stock and check regularly for damaged items.  |
|     | <b>Further information on storage conditions:</b>  |  |
| 7.3 | <b>Specific end use(s):</b><br><b>Recommendations:</b>   | Use only for Non Destructive Testing (NDT) applications.   |
|     | <b>Industrial sector specific solutions:</b>   | See product data sheet for further information.  |

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## SECTION 8

## EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters: Occupational exposure limit values:

Occupational exposure figures have been set for some of the components of this preparation based on GESTIS International Limit Values or manufacturers' recommendation.

| Ingredient name   | Country                   | Limit value - 8 hours |        | Limit value - short term |          |
|---|---------------------------|-----------------------|--------|--------------------------|----------|
|   |                           | ppm                   | mg /m3 | ppm                      | mg /m3   |
| Acetone   | UK                        | 500                   | 1210   | 1500                     | 3620     |
|   | Germany (AGS)             | 500                   | 1200   | 1000 (1)                 | 2400 (1) |
|   | Sweden                    | 250                   | 600    | 500 (1)                  | 1200 (1) |
|   | EU                        | 500                   | 1210   |                          |          |
| Titanium Dioxide (respirable)   | UK                        |                       | 4      |                          |          |
| Titanium Dioxide (inhalable)  | UK                        |                       | 10     |                          |          |
|   | Sweden                    |                       | 5      |                          |          |
| Silica amorphous (respirable)   | UK                        |                       | 2.4    |                          |          |
| Silica amorphous (inhalable)  | UK                        |                       | 6      |                          |          |
|   | Germany (AGS)             |                       | 4      |                          |          |
| Butan-2-ol  | UK                        | 100                   | 308    | 150                      | 462      |
|   | Sweden                    | 50                    | 150    | 75 (1)                   | 250 (1)  |
| 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl esters, C9-rich      | Supplier's recommendation |                       | 5      |                          |          |
| (1) 15 minutes average value  |                           |                       |        |                          |          |
| Data obtained from GESTIS International Limit Values, EH40, supplier's SDS. |                           |                       |        |                          |          |

**Note:** Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

#### Derived No Effect Level (DNEL) – Acetone

| End User | Exposure Route | Exposure Time | Effects  | DNEL             |
|----------|----------------|---------------|----------|------------------|
| Worker   | Inhalation     | Long term     | Systemic | 1210 mg/m3       |
| Worker   | Inhalation     | Short term    | Local    | 2420 mg/m3       |
| Worker   | Dermal (skin)  | Long term     | Systemic | 186 mg/kg bw/day |

#### Derived No Effect Level (DNEL) – Butan-2-ol

| End User | Exposure Route | Exposure Time | Effects  | DNEL             |
|----------|----------------|---------------|----------|------------------|
| Worker   | Inhalation     | Long term     | Systemic | 212 mg/m3        |
| Worker   | Dermal (skin)  | Long term     | Systemic | 405 mg/kg bw/day |

#### Derived No Effect Level (DNEL) – Titanium Dioxide

| End User | Exposure Route | Exposure Time | Effects | DNEL     |
|----------|----------------|---------------|---------|----------|
| Worker   | Inhalation     | Long term     | Local   | 10 mg/m3 |

#### Derived No Effect Level (DNEL) – 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl esters, C9-rich

| End User | Exposure Route | Exposure Time | Effects  | DNEL                    |
|----------|----------------|---------------|----------|-------------------------|
| Worker   | Inhalation     | Long term     | Systemic | 51.72 mg/m <sup>3</sup> |
| Worker   | Dermal (skin)  | Long term     | Systemic | 366 mg/kg bw/day        |

#### Derived No Effect Level (DNEL) – Silica

| End User | Exposure Route | Exposure Time | Effects  | DNEL    |
|----------|----------------|---------------|----------|---------|
| Worker   | Inhalation     | Long term     | Systemic | 4 mg/m3 |



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**Note:** The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accordance with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a government regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

## Predicted No Effect Concentration (PNEC)

|                              | Acetone        | Titanium Dioxide | 1,2-Benzenedi carboxylic acid, di-C8-C10-branched alkyl esters, C9-rich | Butan-2-ol      |
|------------------------------|----------------|------------------|---|-----------------|
| Water - Fresh Water          | 10.6 mg/l      | 0.127 mg/l       | No data   | 47.1 mg/l       |
| Water - Marine Water         | 1.06 mg/l      | 1 mg/l           | No data   | 47.1 mg/l       |
| Water - Intermittent release | 21 mg/l        | 0.61 mg/l        | No data   | 47.1 mg/l       |
| Sediment - Fresh water       | 30.4 mg/ kg dw | 1000 mg/kg dw    | No data   | 196.19 mg/kg dw |
| Sediment - Marine water      | 3.04 mg/kg dw  | 100 mg/kg dw     | No data   | 196.19 mg/kg dw |
| Soil                         | 33.3 mg/kg dw  | 100 mg/kg dw     | 30 mg/kg dw   | 11.58 mg/kg dw  |
| Sewage Treatment plant       | 100 mg/l       | 100 mg/l         | No data   | 761 mg/l        |

### 8.2 Exposure controls:

Concentrations of product vapours and mists in the working atmosphere must be kept as low as is reasonably practicable. Exposure should be minimised by the use of appropriate containment, engineering control and ventilation measures.

Where this is not possible, personal protective equipment should be worn as indicated below where appropriate.

#### Appropriate engineering controls:

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limits are not exceeded. If ventilation is insufficient suitable respiratory protection must be provided.

Provide eye wash station.

#### Personal protection equipment:

##### Eye and face protection:

Safety glasses with side-shields conforming to EN166.

##### Skin protection - hand:

Protective gloves conforming to EN374-3. Use chemical resistant gloves recommended by glove manufacturer as being suitable for acetone if hand exposure is unavoidable. Butyl rubber gloves are suitable, although other types may be more suitable in other circumstances.

For prolonged exposure, recommended glove material: butyl rubber, layer thickness  $\geq 0.5$ mm. Protective index 6, > 480 minutes permeation time according to EN374.

As the product is a preparation, consult the glove manufacturer for exact breakthrough time. Glove manufacturer's directions for use should be observed.

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|   |   |
|---|---|
| <b>Skin protection – other:</b>         | Wear impervious, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.  |
| <b>Respiratory protection:</b>          | Use a respirator with appropriate canister type filter cartridge if spraying in confined or unventilated areas.<br>Respirator Type A2P3 (EN141). Use respirators and components tested and approved under CEN standards.<br>For higher level protection use type ABEK-P3 (EU EN 143) respirator cartridges. |
| <b>Thermal hazards:</b>                 | Not applicable  |
| <b>Environmental exposure controls:</b> | Avoid any release to the environment.   |

## SECTION 9

### PHYSICAL & CHEMICAL PROPERTIES

|            |   |   |
|------------|---|---|
| <b>9.1</b> | <b>Information on basic physical and chemical properties:</b> |   |
|            | <b>Appearance:</b>  | Aerosol containing mobile white liquid. |
|            | <b>Odour:</b>   | Solvent - alcoholic.                    |
|            | <b>Odour threshold:</b>                                       | No data available.                      |
|            | <b>pH:</b>  | Neutral.                                |
|            | <b>Melting point/freezing point:</b>                          | No data available.                      |
|            | <b>Initial boiling point and boiling range:</b>               | 56 °C.                                  |
|            | <b>Flash point (PMCC):</b>                                    | - 40 °C (aerosol propellant).           |
|            | <b>Evaporation rate (BuAC = 100):</b>                         | 770.                                    |
|            | <b>Flammability (solid, gas) (Limits in air):</b>             | No data available.                      |
|            | <b>Upper/lower flammability or explosive limits:</b>          | 2 - 13 % (Vol%).                        |
|            | <b>Vapour pressure:</b>                                       | 185 mm Hg @ 20 °C.                      |
|            | <b>Vapour density (Air = 1):</b>                              | > 1.                                    |
|            | <b>Relative density:</b>                                      | 0.93 g/cm3.                             |
|            | <b>Solubility:</b>  | 70%.                                    |
|            | <b>Partition coefficient: n-octanol/water:</b>                | -0.24 @ 20 °C (acetone).                |
|            | <b>Auto-ignition temperature:</b>                             | >200 °C.                                |
|            | <b>Decomposition temperature:</b>                             | No data available.                      |
|            | <b>Viscosity (ASTM D445):</b>                                 | < 20 mm2/s @ 20 °C.                     |
|            | <b>Explosive properties:</b>                                  | No data available.                      |
|            | <b>Oxidising properties:</b>                                  | No data available.                      |

**Note:** properties relate to the bulk product only unless otherwise stated.

|            |                           |                       |
|------------|---------------------------|-----------------------|
| <b>9.2</b> | <b>Other information:</b> | No other information. |
|------------|---------------------------|-----------------------|

## SECTION 10

### STABILITY & REACTIVITY

|             |  |   |
|-------------|--|---|
| <b>10.1</b> | <b>Reactivity:</b>                         | No data available.                                      |
| <b>10.2</b> | <b>Chemical stability</b>                  | Stable under normal conditions of use and applications. |
| <b>10.3</b> | <b>Possibility of hazardous reactions:</b> | No data available.                                      |



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|      |                                    |   |
|------|------------------------------------|---|
| 10.4 | Conditions to avoid:               | Keep away from sources of ignition, hot surfaces and direct sun light.                  |
| 10.5 | Incompatible materials:            | Strong oxidising agents. Acids and alkalis.   |
| 10.6 | Hazardous decomposition materials: | None under normal conditions of use.<br>Smoke, soot and oxides of carbon on combustion. |

## SECTION 11 TOXICOLOGICAL INFORMATION

|      |   |   |
|------|---|---|
| 11.1 | <b>Information on toxicological effects:</b> based on data for component materials. |   |
|      | <b>Acute toxicity - oral:</b>   | Based on the available data, the classification criteria are not met.   |
|      | <b>Acute toxicity – dermal:</b>   | Based on the available data, the classification criteria are not met.   |
|      | <b>Acute toxicity – inhalation:</b>   | Based on the available data, the classification criteria are not met.   |
|      | <b>Skin corrosion/irritation:</b>   | EUH066: Can cause defatting and dryness of skin, leading to cracking and eczema.<br>Prolonged or repeated exposure may lead to dermatitis.                                |
|      | <b>Serious eye damage/irritation:</b>   | Eye Irrit. 2 H319: Causes serious eye irritation.   |
|      | <b>Respiratory sensitisation:</b>   | Based on the available data, the classification criteria are not met.   |
|      | <b>Skin sensitisation:</b>  | Based on the available data, the classification criteria are not met.   |
|      | <b>Germ cell mutagenicity:</b>  | Based on the available data, the classification criteria are not met.   |
|      | <b>Carcinogenicity:</b>   | Based on the available data, the classification criteria are not met.   |
|      | <b>Reproductive toxicity:</b>   | Based on the available data, the classification criteria are not met.   |
|      | <b>STOT single exposure:</b>  | STOT Single Exp. 3 H336: May cause drowsiness or dizziness.<br>Affected organs: Narcotic effects.<br>Route of exposure: inhalation.                                       |
|      | <b>STOT repeated exposure:</b>  | Based on the available data, the classification criteria are not met.   |
|      | <b>Aspiration hazard:</b>   | Based on the available data, the classification criteria are not met.   |
|      | <b>Information on likely Routes of Exposure and Potential Health Effects:</b>       |   |
|      | <b>Inhalation:</b>  | Vapours may have a narcotic effect and may cause headache, fatigue, dizziness and nausea.   |
|      | <b>Ingestion:</b>   | Not a likely route of exposure. However, ingestion may cause irritation of the mouth, throat and digestive tract. Absorption of large amounts may cause systemic effects. |
|      | <b>Eye contact:</b>   | This mixture is classified as an eye irritant.  |
|      | <b>Skin contact:</b>  | EUH066: Can cause defatting and dryness of skin, leading to cracking and eczema.<br>Prolonged or repeated exposure may lead to dermatitis.                                |

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**Toxicity Test Results:** based on data for component materials, where available.

## Acetone

|                             |            |                              |
|-----------------------------|------------|------------------------------|
| Acute Toxicity – oral       | LD50 (rat) | 5800 mg/kg                   |
| Acute Toxicity – dermal     | LD50 (rat) | > 7400 mg/kg                 |
| Acute Toxicity – inhalation | LC50 (rat) | 76000 mg/l (vapours) 4 hours |

## Titanium Dioxide

|                             |               |                   |
|-----------------------------|---------------|-------------------|
| Acute Toxicity – oral       | LD50 (rat)    | > 5000 mg/kg      |
| Acute Toxicity – dermal     | LD50 (rabbit) | > 5000 mg/kg      |
| Acute Toxicity – inhalation | LC50 (rat)    | > 6.8 mg/l 4hours |

## 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl esters, C9-rich

|                             |            |                    |
|-----------------------------|------------|--------------------|
| Acute Toxicity – oral       | LD50 (rat) | > 5000 mg/kg       |
| Acute Toxicity – dermal     | LD50 (rat) | > 3160 mg/kg       |
| Acute Toxicity – inhalation | LC50 (rat) | 4.4 mg/l (4 hours) |

## Amorphous silica

|                             |               |                               |
|-----------------------------|---------------|-------------------------------|
| Acute Toxicity – oral       | LD50 (rat)    | > 5000 mg/kg                  |
| Acute Toxicity – dermal     | LD50 (rabbit) | > 2000 mg/kg                  |
| Acute Toxicity – inhalation | LC50 (rat)    | > 62.2 mg/l(dust/mist) 1 hour |

### Other Information:

no other information

## SECTION 12

## ECOLOGICAL INFORMATION

Based on data for component materials

### 12.1 Toxicity:

#### Acetone

|                       |                      |      |          |           |
|-----------------------|----------------------|------|----------|-----------|
| Fish                  | Onchorhynchus mykiss | LC50 | 96 hours | 5540 mg/l |
| Aquatic Invertebrates | Daphnia pulex        | EC50 | 48 hours | 8800 mg/l |
| Aquatic Invertebrates | Daphnia magna        | EC10 | 28 days  | 2212 mg/l |
| Microorganisms        | Activated sludge     | EC10 | 30 mins. | 1000 mg/l |

#### Titanium Dioxide

|                       |                                |      |          |                   |
|-----------------------|--------------------------------|------|----------|-------------------|
| Fish                  | Onchorhynchus mykiss           | LC50 | 96 hours | > 100 mg/l        |
| Fish                  | Pimephales promelas            | LC50 | 96 hours | > 1000 mg/l       |
| Aquatic Invertebrates | Daphnia magna                  | LC50 | 48 hours | > 100 mg/l        |
| Microorganisms        | Hyalella azteca                | NOEC | 28 days  | > 100000 mg/kg dw |
| Aquatic Plants        | Pseudokirchnerella subcapitata | EC50 | 72 hours | 16 mg/l           |

#### 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl esters, C9-rich

|                       |                                 |      |          |             |
|-----------------------|---------------------------------|------|----------|-------------|
| Fish                  | Onchorhynchus mykiss            | LC0  | 96 hours | 0.16 mg/l   |
| Fish                  | Oryzia latipes                  | NOEC | 284 days | 18.5 µg/l   |
| Aquatic Invertebrates | Daphnia magna                   | EC0  | 48 hours | 0.06 mg/l   |
| Aquatic Invertebrates | Daphnia magna                   | NOEC | 21 days  | 0.0036 mg/l |
| Aquatic Plants        | Pseudokirchneriella subcapitata | NOEC | 5 days   | 1.8 mg/l    |

### 12.2 Persistence and degradability:

Acetone: easily biodegradable.  
Titanium dioxide: not relevant for inorganic substances.

### 12.3 Bioaccumulative potential:

Acetone: not expected to bioaccumulate.  
Titanium dioxide: does not accumulate in organisms.

**Partition coefficient: n-octanol/water (log Kow):**

-0.24 @ 20 °C (acetone).

**Bioconcentration factor (BCF):**

3 (acetone).

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|      |                                     |   |
|------|-------------------------------------|---|
| 12.4 | Mobility in soil:                   | Acetone: Contamination will evaporate from the surfaces of water and soil.<br>Titanium dioxide: immobile in soil. |
| 12.5 | Results of PBT and vPvB assessment: | This mixture does not contain any substance that are assessed to be a PBT or a vPvB.                              |
| 12.6 | Other adverse effects:              | No data available.  |

## SECTION 13 DISPOSAL CONSIDERATIONS

|      |   |   |
|------|---|---|
| 13.1 | <b>Waste treatment methods:</b><br>Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation.<br><b>Product/packing disposal:</b> | Empty containers may contain residual product and flammable vapours. Do not pierce or burn container, even after use. Do NOT remove labels. Keep away from sources of ignition. |
|      | <b>Waste codes/waste designations according to LoW:</b>   | 16 05 04* gases in pressure containers containing dangerous substances.   |

NOTE: Waste codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste code(s).

|  |  |
|--|--|
| <b>Waste treatment – relevant information:</b> | Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation. |
| <b>Sewage disposal – relevant information:</b> | Do not empty down the drain.   |
| <b>Other disposal recommendations:</b>         | Use a licensed waste contractor.   |

## SECTION 14 TRANSPORT INFORMATION

|      |  |  |
|------|--|--|
| 14.1 | <b>UN number:</b>  | ADR/RID: UN1950<br>IMDG: UN1950<br>IATA: UN1950  |
| 14.2 | <b>UN proper shipping name:</b>  | ADR/RID: AEROSOLS, flammable<br>IMDG: AEROSOLS, flammable<br>IATA: AEROSOLS, flammable |
| 14.3 | <b>Transport hazard class(es):</b>   | ADR/RID: 2.1<br>IMDG: 2.1<br>IATA: 2.1   |
| 14.4 | <b>Packing group:</b>  | ADR/RID: N/A<br>IMDG: N/A<br>IATA: N/A   |
| 14.5 | <b>Environmental hazards:</b>  | ADR/RID: No<br>IMDG: Marine Pollutant: No<br>IATA: No                                  |
| 14.6 | <b>Special precautions for user:</b><br>ADR/RID – Tunnel code: (D)<br>IMDG – Ems: F-D, S-U<br>IATA/ICAO – PAX: 203<br>IATA/ICAO – CAO: 203 |  |

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14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:  
Not applicable

## SECTION 15

## REGULATORY INFORMATION

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

**EU Regulations:**

This data sheet complies with the requirements of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures.

Safety data sheet as required by EU Regulations 1907/2006 and REACH Annex II Amendment (EU) No. 2015/830.

**Information according to 2013/10/EU and 2008/47/EC amendment of the aerosol directive 75/324/EEC.**

This data sheet is complied according Dir 2013/10/EU, 2008/47/EC amendment of the aerosol directive 75/324/EEC.

**Extra label elements:** Pressured container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

**National regulations (Germany):**

**Wassergefährdungsklasse (water hazard class):**

WGK 1 – Low hazard to waters.

**TechnischeAnleitungLuft (TA-Luft):**

85 – 95% Class 5.2.5 Organic substances, except dusts.  
5 – 15% Class 5.2.1 Overall dust, including fine dust.

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this mixture by the supplier.

## SECTION 16

## OTHER INFORMATION

(i) Indication of changes:

This safety data sheet has been updated to meet the requirements of Regulation EU No. 2015/830 and Regulation (EC) No 1272/2008. Removal of the Classification according to 67/548/EEC as amended & Directive 1999/45/EC.

Version 16.1 also updated in Section 8 due to updated safety information.

Vertical lines on the left hand side indicate an amendment from the previous version.

(ii) Abbreviations and acronyms:

|           |  |
|-----------|--|
| ADR       | European Agreement concerning the International Carriage of Dangerous Goods by Road ( <i>Accord européen relatif au transport international des marchandises Dangereuses par Route</i> ) |
| CAS No.   | Chemical Abstracts Service number  |
| CEN       | European Committee for Standardisation   |
| CLP       | Classification, Labelling Packaging Regulation; Regulation (EC) No 1272/2008   |
| ECHA      | European Chemicals Agency  |
| EC50      | Half Maximal Effective Concentration   |
| EC number | EINECS and ELINCS number   |
| EINECS    | European Inventory of Existing Commercial Substances   |
| ELINCS    | European List of notified Chemical Substances  |
| GHS       | Globally Harmonized System   |
| IATA      | International Air Transport Association  |
| IMDG      | International Maritime Dangerous Goods   |
| LC50      | Lethal Concentration to 50% of a test population   |
| LD50      | Lethal Dose to 50% of a test population  |
| MPI       | Magnetic Particle Inspection   |
| NDT       | Non-Destructive Testing  |
| OEL       | Occupational Exposure Limit  |
| PBT       | Persistent, Bioaccumulative and Toxic Substance  |

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|         |   |
|---------|---|
| PMCC    | Pensky-Martens closed cup method  |
| PPE     | Personal Protection Equipment   |
| REACH   | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation EC (No) 1907/2006   |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail (Reglement International concernant le transport des marchandises Dangereuses par chemin de fer) |
| SDS     | Safety Data Sheet   |
| STOT RE | Specific Target Organ Toxicity, Repeat Exposure   |
| STOT SE | Specific Target Organ Toxicity, Single Exposure   |
| TA-Luft | Technical Instructions on Air Quality Control (Technische Anleitung zur Reinhaltung der Luft)   |
| vPvB    | Very Persistent and Very Bioaccumulative  |
| WEL     | Workplace Exposure Limit  |
| WGK     | German Water Hazard Class (Wassergefährdungsklasse)   |

(iii) **Key literature and sources of data:**

- Supplier's safety data sheets for components listed in Section 3.
- European Chemicals Agency, <http://echa.europa.eu/>
- GESTIS International Limit Values Database, [http://limitvalue.ifa.dguv.de/Webform\\_gw.aspx](http://limitvalue.ifa.dguv.de/Webform_gw.aspx)
- Occupational Exposure Limits EH40/2005.
- Commission regulation (EU) 2015/830.
- Control of Substances Hazardous to Health Regulations 2002.
- Hazardous waste regulations 2005.
- Health & Safety at Work Act 1974.
- REACH Directive (EC) 1907/2006.
- <http://logkow.cisti.nrc.ca/logkow/index.jsp>
- <http://webrigoletto.uba.de/rigoletto/public/searchRequest.do?event=request>
- IFA Database on Hazardous Substances, <http://www.dguv.de/ifa/Gefahrstoffdatenbanken/GESTIS-Stoffdatenbank/index-2.jsp>

(iv) **Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP):**

| Classification according to Regulation (EC) No 1272/2008 | Classification procedure |
|--|--------------------------|
| Aerosol. 1, H222, H229                                   | Test Method              |
| Eye Irrit. 2, H319                                       | Calculation Method       |
| STOT SE 3, H336  | Calculation Method       |
| EUH066   | Calculation Method       |

(v) **Hazard statements (number and full text):**

- H220: Extremely flammable gas.
- H222: Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H229: Pressurised container: may burst if heated.
- H280: Contains gas under pressure; may explode if heated.
- H319: Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness and cracking.

**Hazard Class and Category Code (full text):**

- Aerosol 1 Aerosol
- Eye Irrit. 2 Serious eye damage/eye irritation
- Flam. Gas 1 Flammable Gas
- Flam. Liq. 2 Flammable liquid
- Flam. Liq. 3 Flammable liquid
- Press. Gas Gases under pressure
- STOT SE 3 Specific target organ toxicity - single exposure

**Relevant precautionary statements (number and full text):**

- P210: Keep away from heat, sparks, open flames and hot surfaces. No smoking.



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P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C

P280: Wear protective gloves and eye protection.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P303+P361+P353: IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.

P501: Dispose of contents/container to hazardous waste or special collection point.

(vi) **Training advice:**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene. Chemical hazard risk assessment. Provide adequate information, instruction and training to operators.

## DISCLAIMER

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391/EEC and 98/24/EC amended by Directive 2014/27/EU.

|                          |  |  |
|--------------------------|--|--|
| <b>Revision summary:</b> | <b>Revision Comments</b>               | This SDS is valid from the Revision Date. If you require a SDS for the product manufactured before the revision date please contact us at <a href="mailto:datasheets@magnaflux.co.uk">datasheets@magnaflux.co.uk</a> . |
|                          | <b>Revision Date</b><br><b>Version</b> |  |
|                          |  | 29.04.2016<br>16.1   |