

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

### 1.1. Product identifier

Product form : Mixture

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : For professional use only  
Use of the substance/mixture : Fillers Heat transfer agents  
Function or use category : Heat transfer agents, Fillers

#### 1.2.2. Uses advised against

No additional information available

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

Premier Farnell plc  
150 Armley Road, Leeds, LS12 2QQ  
+44 (0) 8701 202530

### 1.4. Emergency telephone number

+44 1865 407333

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Not classified

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

### 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] |
|--------------|---|---------|---|
| ALUMINA      | (CAS-No.) 1344-28-1<br>(EC-No.) 215-691-6 | 70 - 80 | Not classified  |
| SILICONE - A | (CAS-No.) 90337-93-2                      | 20 - 25 | Not classified  |

|   |  |            |  |
|---|--|------------|--|
| Diboron Trioxide<br>substance listed as REACH Candidate | (CAS-No.) 1303-86-2<br>(EC-No.) 215-125-8<br>(EC Index-No.) 005-008-00-8 | 0.1 - 0.3  | Repr. 1B, H360FD   |
| Toluene   | (CAS-No.) 108-88-3<br>(EC-No.) 203-625-9<br>(EC Index-No.) 601-021-00-3  | 0.1 - 0.25 | Flam. Liq. 2, H225<br>Repr. 2, H361d<br>Asp. Tox. 1, H304<br>STOT RE 2, H373<br>Skin Irrit. 2, H315<br>STOT SE 3, H336 |

| Specific concentration limits: |  |                                   |
|--------------------------------|--|-----------------------------------|
| Name                           | Product identifier   | Specific concentration limits     |
| Diboron Trioxide               | (CAS-No.) 1303-86-2<br>(EC-No.) 215-125-8<br>(EC Index-No.) 005-008-00-8 | ( 3.1 =<C < 100) Repr. 1B, H360FD |

Full text of H-statements: see section 16

## Section 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Move the affected person away from the contaminated area and into the fresh air. Get medical advice/attention if you feel unwell. |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.                       |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.                        |
| First-aid measures after ingestion    | : Rinse mouth out with water. Drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention.                |

### 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

No additional information available

## Section 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, or water spray or regular foam.

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

Hazardous decomposition products in case of fire : Carbon oxides. Nitrogen oxides.

### 5.3. Advice for firefighters

|   |  |
|---|--|
| Firefighting instructions                           | : Use water spray or fog for cooling exposed containers.         |
| Protection during firefighting breathing apparatus. | : Wear recommended personal protective equipment. Self-contained |

## Section 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Avoid contact with skin and eyes. Ensure adequate ventilation.

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses.

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

For containment : Store in a closed container.  
Methods for cleaning up : Avoid creating or spreading dust. Shovel or sweep up and put in a closed container for disposal.

### 6.4. Reference to other sections

No additional information available

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Always wash hands after handling the product. Avoid contact with skin and eyes.

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

Storage conditions : Keep container closed when not in use. Store in a dry, cool area.  
Store in a well-ventilated place. Keep away from ignition sources.

### 7.3. Specific end use(s)

No additional information available

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

| ALUMINA (1344-28-1) |   |  |
|---------------------|---|--|
| Germany             | TRGS 910 Acceptable concentration notes |  |
| United Kingdom      | Local name                              | Aluminium oxides   |
| United Kingdom      | WEL TWA (mg/m <sup>3</sup> )            | 10 mg/m <sup>3</sup> inhalable dust<br>4 mg/m <sup>3</sup> respirable dust |
| United Kingdom      | Regulatory reference                    | EH40/2005 (Third edition, 2018). HSE                                       |

### 8.2. Exposure controls

#### Appropriate engineering controls

Ensure good ventilation of the work station. Do not breathe dust. Always wash hands after handling the product. Chemical resistant gloves (according to European standard NF EN 374 or equivalent).

#### Personal protective equipment

Wear recommended personal protective equipment. Safety glasses. Protective clothing. An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area. Filter type A (EN14387). Gloves. Chemical resistant gloves (according to European standard EN 374 or equivalent).

Personal protective equipment symbol(s):



## Section 9: Physical and chemical properties

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

|  |                     |
|--|---------------------|
| Physical state                             | : Solid             |
| Colour                                     | : Pink              |
| Odour                                      | : No data available |
| Odour threshold                            | : No data available |
| pH   | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : No data available |
| Freezing point                             | : No data available |
| Boiling point                              | : No data available |
| Flash point                                | : No data available |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : No data available |
| 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

## Section 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions of storage and use.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>).

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

| Toluene (108-88-3)        |                |
|---------------------------|----------------|
| LD50 oral rat             | 5000 mg/kg     |
| LD50 dermal rabbit        | 12000 mg/kg    |
| LC50 inhalation rat (ppm) | ≈ 26700 ppm/1h |

| Diboron Trioxide (1303-86-2) |  |
|------------------------------|--|
| LD50 oral rat                | ≈ 2600 mg/kg OECD Test Guideline 401   |
| LD50 dermal rabbit           | > 2000 mg/kg                           |
| LC50 inhalation rat (mg/l)   | > 2.12 mg/l/4h OECD Test Guideline 403 |

Skin corrosion/irritation : Not classified  
pH: Approx. 7

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 : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

| Toluene (108-88-3) |   |
|--------------------|---|
| LC50 fish 1        | 5.5 mg/l Oncorhynchus kisutch, flow-through system, fresh water, experimental value |

| Diboron Trioxide (1303-86-2) |  |
|------------------------------|--|
| LC50 fish 1                  | ≈ 79.7 mg/l Pimephales promelas                |
| EC50 Daphnia 1               | ≈ 115 mg/l Daphnia dubia                       |
| EC50 Daphnia 2               | ≈ 133 mg/l Daphnia magna                       |
| ErC50 (algae)                | ≈ 52.5 mg/l Selenastrum capricornutum - 74.5 h |

## 12.2. Persistence and degradability

| Toluene (108-88-3)              |  |
|---------------------------------|--|
| Persistence and degradability   | Biodegradeable in soil. Readily biodegradeable in water. |
| Biochemical oxygen demand (BOD) | 2.15 g O <sub>2</sub> /g substance                       |
| Chemical oxygen demand (COD)    | 2.52 g O <sub>2</sub> /g substance                       |
| ThOD                            | 3.13 g O <sub>2</sub> /g substance                       |
| BOD (% of ThOD)                 | 0.69 % ThOD  |

| ALUMINA (1344-28-1)           |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

## 12.3. Bioaccumulative potential

| Toluene (108-88-3)                  |  |
|-------------------------------------|--|
| BCF fish 1                          | 90 mg/l 72 h, Leuciscus idus, static system, fresh water, experimental value |
| Bioconcentration factor (BCF REACH) | < 500 Low potential for bioaccumulation                                      |

| ALUMINA (1344-28-1)       |                                    |
|---------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |

## 12.4. Mobility in soil

| Toluene (108-88-3) |                    |
|--------------------|--------------------|
| Surface tension    | 27.73 N/m 25 deg C |

## 12.5. Results of PBT and vPvB assessment

| Component                    |   |
|------------------------------|---|
| Diboron Trioxide (1303-86-2) | 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

Sewage disposal recommendations

: Avoid discharge to the environment.

## Section 14: Transport information

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

|                                      | ADR           | IMDG          | IATA          | ADN           | RID           |
|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number</b>               |               |               |               |               |               |
|                                      | Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b> |               |               |               |               |               |
|                                      | Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |

|   |               |               |               |               |
|---|---------------|---------------|---------------|---------------|
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

## 14.6. Special precautions for user

|                               |   |
|-------------------------------|---|
| Special transport precautions | : Can be shipped as non-dangerous goods |
| Overland transport            | : Not regulated                         |
| Transport by sea              | : Not regulated                         |
| Air transport                 | : Not regulated                         |
| Inland waterway transport     | : Not regulated                         |
| Rail transport                | : Not regulated                         |

## 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 a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Diboron trioxide (EC 215-125-8, CAS 1303-86-2)

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 additional information available

## SECTION 16: Other information

|  |  |
|--|--|
| <b>Full text of H- and EUH-statements:</b> |  |
| Asp. Tox. 1                                | Aspiration hazard, Category 1                                  |
| Flam. Liq. 2                               | Flammable liquids, Category 2                                  |
| Repr. 1B                                   | Reproductive toxicity, Category 1B                             |
| Repr. 2                                    | Reproductive toxicity, Category 2                              |
| Skin Irrit. 2                              | Skin corrosion/irritation, Category 2                          |
| STOT RE 2                                  | Specific target organ toxicity — Repeated exposure, Category 2 |

# Safety Data Sheet

**multicomp** PRO

|           |  |
|-----------|--|
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225      | Highly flammable liquid and vapour.                                    |
| H304      | May be fatal if swallowed and enters airways.                          |
| H315      | Causes skin irritation.  |
| H336      | May cause drowsiness or dizziness.                                     |
| H360FD    | May damage fertility. May damage the unborn child.                     |
| H361d     | Suspected of damaging the unborn child.                                |
| H373      | May cause damage to organs through prolonged or repeated exposure.     |
| EUH210    | Safety data sheet available on request.                                |

| Part Number           |
|-----------------------|
| MPGCS-010TCI-300-0.23 |
| MPGCS-013TCI-300-0.18 |
| MPGCS-018TCI-300-0.23 |

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

**multicomp** PRO