

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

## SAFETY DATA SHEET

SN60 PB38 CU2 FLUITIN 1532/122 1MM 0.5KG

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

#### 1.1 Product identifier

**Product name** : SN60 PB38 CU2 FLUITIN 1532/122 1MM 0.5KG  
**Product code** : 15148  
**Product type** : Solid.

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

| Identified uses          |
|--------------------------|
| Industrial applications. |
| Material uses            |
| soldering                |
| Uses advised against     |
| Not applicable.          |

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

**e-mail address of person responsible for this SDS** : Europeanregulatory@macdermid.com

**Supplier** : Alpha Assembly Solutions Germany GmbH  
Elisabeth-Selbert-Straße  
440764  
Langenfeld  
Germany

**Information contact** : Tel. No.: +49 2173 8490 300  
Fax No.: +49 2173 8490 202  
salesEU@AlphaAssembly.com

#### 1.4 Emergency telephone number

##### National advisory body/Poison Centre

**Telephone number** :

##### Supplier

**Telephone number** : Chemcare24: 069 222 25285

**Hours of operation** : 24/7

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Skin Sens. 1

Repr. 1A

Lact.

STOT RE 1

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

(\* ) See full text of phrases in section 16

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : H317 - May cause an allergic skin reaction.  
 H360FD - May damage fertility. May damage the unborn child.  
 H362 - May cause harm to breast-fed children.  
 H372 - Causes damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys)

### Precautionary statements

**Prevention** : P201 - Obtain special instructions before use.  
 P280 - Wear eye or face protection: Recommended: safety glasses with side-shields . Wear protective clothing: Recommended: overall.  
 P260 - Do not breathe dust.  
 P263 - Avoid contact during pregnancy or while nursing.

**Response** : P314 - Get medical attention if you feel unwell.  
 P308 + P313 - IF exposed or concerned: Get medical attention.

**Storage** : P405 - Store locked up.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : lead  
 rosin

**Supplemental label elements** : Not applicable.

### 2.3 Other hazards

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

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers   | %         | Regulation (EC) No. 1272/2008 [CLP] *  | Type    |
|-------------------------|---|-----------|--|---------|
| lead                    | REACH #:<br>01-2119513221-59<br>EC: 231-100-4<br>CAS: 7439-92-1 | ≥25 - ≤50 | Repr. 1A, H360FD<br>(Fertility and Unborn child)<br>Lact., H362<br>STOT RE 1, H372<br>(blood system, central nervous system (CNS), kidneys) (oral) | [1] [2] |

**SECTION 3: Composition/information on ingredients**

|       |  |    |   |         |
|-------|--|----|---|---------|
| rosin | EC: 232-475-7<br>CAS: 8050-09-7<br>Index: 650-015-00-7 | ≤3 | STOT RE 1, H372<br>(blood system, central nervous system (CNS), kidneys) (inhalation)<br>Skin Sens. 1, H317<br><br>(* See full text of phrases in section 16) | [1] [2] |
|-------|--|----|---|---------|

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

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

**4.2 Most important symptoms and effects, both acute and delayed****Potential acute health effects**

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.

## SECTION 4: First aid measures

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : No specific data.

**Inhalation** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

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

**Hazards from the substance or mixture** : No specific fire or explosion hazard.

**Hazardous combustion products** : Decomposition products may include the following materials:  
metal oxide/oxides

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

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



## SECTION 6: Accidental release measures

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

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

**Small spill** : Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

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

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

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

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid contact during pregnancy or while nursing. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

Industrial applications.  
soldering

## SECTION 8: Exposure controls/personal protection

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

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| lead                    | <b>EU OEL (Europe, 12/2009). Notes: list of binding occupational exposure limit values</b><br>TWA: 0.15 mg/m <sup>3</sup> 8 hours. |
| rosin                   | <b>MAK-Werte Liste (Germany, 7/2015). Skin sensitiser.</b>   |

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

#### DNELs/DMELs

| Product/ingredient name | Type | Exposure               | Value                 | Population | Effects  |
|-------------------------|------|------------------------|-----------------------|------------|----------|
| rosin                   | DNEL | Long term Inhalation   | 117 mg/m <sup>3</sup> | Workers    | Systemic |
|                         | DNEL | Long term Dermal       | 17 mg/kg bw/day       | Workers    | Systemic |
|                         | DNEL | Long term Inhalation   | 35 mg/m <sup>3</sup>  | Consumers  | Systemic |
|                         | DNEL | Long term Oral, Dermal | 10 mg/kg bw/day       | Consumers  | Systemic |

#### PNECs

| Product/ingredient name | Compartment Detail     | Value       | Method Detail            |
|-------------------------|------------------------|-------------|--------------------------|
| rosin                   | Fresh water            | 2 µg/l      | Assessment Factors       |
|                         | Sewage Treatment Plant | 1000 mg/l   |                          |
|                         | Fresh water sediment   | 7 µg/kg dwt | Equilibrium Partitioning |
|                         | Marine water sediment  | 1 µg/kg dwt |                          |

### 8.2 Exposure controls

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

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## SECTION 8: Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): disposable vinyl
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: overall
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: 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.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Solid.
- Colour** : Silvery.
- Odour** : Sweetish.
- Odour threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : 183 to 190°C
- Initial boiling point and boiling range** : Not available.
- Flash point** : Not available.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Upper/lower flammability or explosive limits** : Not available.
- Vapour pressure** : Not available.
- Vapour density** : Not available.
- Relative density** : 7.9 g/cm<sup>3</sup> [20°C]
- Solubility(ies)** : Very slightly soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/ water** : Not available.
- Auto-ignition temperature** : Not available.

**SECTION 9: Physical and chemical properties**

|                                  |                  |
|----------------------------------|------------------|
| <b>Decomposition temperature</b> | : Not available. |
| <b>Viscosity</b>                 | : Not available. |
| <b>Explosive properties</b>      | : Not available. |
| <b>Oxidising properties</b>      | : Not available. |

**9.2 Other information**

|                            |                  |
|----------------------------|------------------|
| <b>Solubility in water</b> | : Not available. |
| <b>VOC content</b>         | : 0 % (w/w)      |

No additional information.

**SECTION 10: Stability and reactivity**

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

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

| Product/ingredient name | Result    | Species | Dose       | Exposure |
|-------------------------|-----------|---------|------------|----------|
| rosin                   | LD50 Oral | Rat     | 7600 mg/kg | -        |

**Conclusion/Summary** : Not available.

**Acute toxicity estimates**

Not available.

**Irritation/Corrosion**

**Conclusion/Summary** : Not available.

**Sensitisation**

**Conclusion/Summary** : Not available.

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**



## SECTION 11: Toxicological information

| Product/ingredient name | Category   | Route of exposure      | Target organs  |
|-------------------------|------------|------------------------|--|
| lead                    | Category 1 | Oral<br><br>Inhalation | blood system,<br>central nervous<br>system (CNS) and<br>kidneys<br>blood system,<br>central nervous<br>system (CNS) and<br>kidneys |

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Not available.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : May damage the unborn child.

**Developmental effects** : May cause harm to breast-fed children.

**Fertility effects** : May damage fertility.



## SECTION 11: Toxicological information

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result                              | Species  | Exposure |
|-------------------------|-------------------------------------|--|----------|
| lead                    | Acute EC50 105 ppb Marine water     | Algae - Chaetoceros sp. - Exponential growth phase                 | 72 hours |
|                         | Acute EC50 0.489 mg/l Marine water  | Algae - Ulva pertusa   | 96 hours |
|                         | Acute EC50 8000 µg/l Fresh water    | Aquatic plants - Lemna minor                                       | 4 days   |
|                         | Acute LC50 530 µg/l Fresh water     | Crustaceans - Ceriodaphnia reticulata                              | 48 hours |
|                         | Acute LC50 5100 µg/l Fresh water    | Daphnia - Daphnia pulex  | 48 hours |
|                         | Acute LC50 0.44 ppm Fresh water     | Fish - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
|                         | Chronic NOEC 0.25 mg/l Marine water | Algae - Ulva pertusa   | 96 hours |
|                         | Chronic NOEC 17 µg/l Fresh water    | Fish - Cyprinus carpio   | 4 weeks  |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

| Product/ingredient name | Test | Result                   | Dose | Inoculum |
|-------------------------|------|--------------------------|------|----------|
| rosin                   | -    | 80 % - Readily - 28 days | -    | -        |

**Conclusion/Summary** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| rosin                   | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| rosin                   | 1.9 to 7.7         | -   | high      |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

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

### 13.1 Waste treatment methods

**Product**

### SECTION 13: Disposal considerations

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

**European waste catalogue (EWC)**

| Waste code | Waste designation  |
|------------|--|
| 10 08 11   | dross and skimmings other than those mentioned in 10 08 10 |

**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

### SECTION 14: Transport information

|  | ADR/RID        | IMDG                    | IATA   |
|--|----------------|-------------------------|--|
| <b>14.1 UN number</b>                  | Not regulated. | Not regulated.          | Not regulated.   |
| <b>14.2 UN proper shipping name</b>    | -              | -                       | -  |
| <b>14.3 Transport hazard class(es)</b> | -              | -                       | -  |
| <b>14.4 Packing group</b>              | -              | -                       | -  |
| <b>14.5 Environmental hazards</b>      | No.            | No.<br>Not a pollutant. | No.  |
| <b>Additional information</b>          | -              | -                       | The environmentally hazardous substance mark may appear if required by other transportation regulations. |

**14.6 Special precautions for user** : **Transport within user’s premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## SECTION 15: Regulatory information

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

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

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Restricted to professional users.

#### Other EU regulations

**Europe inventory** : All components are listed or exempted.

**Industrial emissions (integrated pollution prevention and control) - Air** : Listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Listed

#### Ozone depleting substances (1005/2009/EU)

Not listed.

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

| Ingredient name | Annex            | Status |
|-----------------|------------------|--------|
| Lead compounds  | Annex I - Part 1 | Listed |

#### Seveso Directive (2012/18/EU)

This product is not controlled under the Seveso Directive.

#### National regulations

| Product/ingredient name | List name       | Name on list                | Classification | Notes |
|-------------------------|-----------------|-----------------------------|----------------|-------|
| lead                    | Germany TRGS905 | Blei Metall, (bioverfügbar) | RF3, RE1       | -     |

**Hazard class for water (VwVwS 1999, 2005)** : nwg Appendix No. 4

#### International regulations

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

Not listed.

#### International lists

Mixture

##### National inventory

**Canada** : Not determined.  
**China** : Not determined.  
**Japan** : **Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.  
**Malaysia** : Not determined.  
**New Zealand** : Not determined.



## SECTION 15: Regulatory information

|                          |                   |
|--------------------------|-------------------|
| <b>Philippines</b>       | : Not determined. |
| <b>Republic of Korea</b> | : Not determined. |
| <b>Taiwan</b>            | : Not determined. |
| <b>Turkey</b>            | : Not determined. |
| <b>United States</b>     | : Not determined. |

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

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

|                                   |  |
|-----------------------------------|--|
| <b>Abbreviations and acronyms</b> | : ATE = Acute Toxicity Estimate<br>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]<br>DMEL = Derived Minimal Effect Level<br>DNEL = Derived No Effect Level<br>EUH statement = CLP-specific Hazard statement<br>PBT = Persistent, Bioaccumulative and Toxic<br>PNEC = Predicted No Effect Concentration<br>RRN = REACH Registration Number<br>vPvB = Very Persistent and Very Bioaccumulative |
|-----------------------------------|--|

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification  | Justification  |
|---|--|
| Skin Sens. 1, H317<br>Repr. 1A, H360FD (Fertility and Unborn child)<br>Lact., H362<br>STOT RE 1, H372 (blood system, central nervous system (CNS), kidneys) | Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

### Full text of abbreviated H statements

|  |   |
|--|---|
| H317<br>H360FD<br>H362<br>H372 (inhalation)<br><br>H372 (oral)<br><br>H372 | May cause an allergic skin reaction.<br>May damage fertility. May damage the unborn child.<br>May cause harm to breast-fed children.<br>Causes damage to organs through prolonged or repeated exposure if inhaled.<br>Causes damage to organs through prolonged or repeated exposure if swallowed.<br>Causes damage to organs through prolonged or repeated exposure. |
|--|---|

### Full text of classifications [CLP/GHS]

|  |   |
|--|---|
| Lact., H362<br>Repr. 1A, H360FD<br><br>Skin Sens. 1, H317<br>STOT RE 1, H372 (inhalation)<br><br>STOT RE 1, H372 (oral)<br><br>STOT RE 1, H372 | REPRODUCTIVE TOXICITY - Effects on or via lactation<br>REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category 1A<br>SKIN SENSITISATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (inhalation) - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (oral) - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
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| <b>Version</b>                         | : 3.3        |

### Notice to reader

|                                       |              |
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| <b>Date of issue/Date of revision</b> | : 24/02/2018 |
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A MacDermid Performance Solutions Business  
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## SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Alpha Assembly Solutions SDS CLP Europe