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## **EXOTHERMIC DILUTED #2**

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# SAFETY DATA SHEET

### **EXOTHERMIC DILUTED #2**

| Section 1. Identification  |            |   |
|--|------------|---|
| GHS product identifier<br>Chemical name<br>CAS number<br>Other means of identification<br>Product type | :          | EXOTHERMIC DILUTED #2<br>Mixture<br>Mixture<br>CC10268388<br>liquid   |
| <u>Relevant identified uses of the subs</u><br>Product use   | tance<br>: | e or mixture and uses advised against<br>Industrial applications. Plastics.                                       |
| Supplier's details   | :          | <b>POLYONE CORPORATION</b><br>ColorMatrix Group Inc.<br>680 North Rocky River Drive, Berea, Ohio, 44017-1628, USA |
|  |            | +1 216 622 0100   |
| Emergency telephone number<br>(with hours of operation)  | :          | CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).                                      |

# Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

| OSHA/HCS status                               | : | This material is considered hazardous by the OSHA Hazard<br>Communication Standard (29 CFR 1910.1200).   |
|---|---|--|
| Classification of the substance or<br>mixture | : | SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>RESPIRATORY SENSITISATION - Category 1<br>SKIN SENSITISATION - Category 1<br>GERM CELL MUTAGENICITY - Category 2 |

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#### **GHS label elements**

| Hazard pictograms                | : |   |
|----------------------------------|---|---|
| Signal word<br>Hazard statements | : | Danger<br>Causes serious eye irritation.<br>Causes skin irritation.<br>May cause allergy or asthma symptoms or breathing difficulties if<br>inhaled.<br>May cause an allergic skin reaction.<br>Suspected of causing genetic defects.   |
| Precautionary statements         |   |   |
| General                          | : | Not applicable.   |
| Prevention                       | : | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wear respiratory protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.   |
| Response                         | : | IF exposed or concerned: Get medical attention. IF INHALED: If<br>breathing is difficult, remove person to fresh air and keep comfortable<br>for breathing. If experiencing respiratory symptoms: Call a POISON<br>CENTER or physician. IF ON SKIN: Wash with plenty of soap and<br>water. Wash contaminated clothing before reuse. If skin irritation or<br>rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with<br>water for several minutes. Remove contact lenses, if present and easy<br>to do. Continue rinsing. If eye irritation persists: Get medical<br>attention. |
| Storage                          | : | Store locked up.  |
| Disposal                         | : | Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| Supplemental label elements      | : | None known.   |
| Hazards not otherwise classified | : | None known.   |

# Section 3. Composition/information on ingredients

| Substance/mixture | : | Mixture |
|-------------------|---|---------|
| Chemical name     | : | Mixture |

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**Other means of identification** : CC10268388

CAS number/other identifiers

| Ingredient name   | %       | CAS number     |
|---|---------|----------------|
| Sodium bicarbonate  | 10 - 30 | 144-55-8       |
| Miscellaneous Compounds Distillates, petroleum, hydrotreated middle | 10 - 30 | Not available. |
| Calcium oxide   | 1 - 5   | 1305-78-8      |
| Azodicarbonamide  | 1 - 5   | 123-77-3       |
| Diphenyloxide-4,4'-disulfohydrazide                                 | 1 - 5   | 80-51-3        |
| Quartz  | 0.1 - 1 | 14808-60-7     |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and hence require reporting in this section.

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

# Section 4. First aid measures

#### Description of necessary 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<br>for breathing. If it is suspected that fumes are still present, the rescuer<br>should wear an appropriate mask or self-contained breathing<br>apparatus. If not breathing, if breathing is irregular or if respiratory<br>arrest occurs, provide artificial respiration or oxygen by trained<br>personnel. It may be dangerous to the person providing aid to give<br>mouth-to-mouth resuscitation. Get medical attention. If necessary, call |
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|              |   | a poison center or physician. If unconscious, place in recovery<br>position and get medical attention immediately. Maintain an open<br>airway. Loosen tight clothing such as a collar, tie, belt or waistband.<br>In case of inhalation of decomposition products in a fire, symptoms<br>may be delayed. The exposed person may need to be kept under<br>medical surveillance for 48 hours. In the event of any complaints or<br>symptoms, avoid further exposure.  |
|--------------|---|---|
| Skin contact | : | Wash with plenty of soap and water. Remove contaminated clothing<br>and shoes. Wash contaminated clothing thoroughly with water before<br>removing it, or wear gloves. Continue to rinse for at least 10 minutes.<br>Get medical attention. In the event of any complaints or symptoms,<br>avoid further exposure. Wash clothing before reuse. Clean shoes<br>thoroughly before reuse.  |
| Ingestion    | : | Wash out mouth with water. Remove dentures if any. Remove victim<br>to fresh air and keep at rest in a position comfortable for breathing. If<br>material has been swallowed and the exposed person is conscious,<br>give small quantities of water to drink. Stop if the exposed person<br>feels sick as vomiting may be dangerous. Do not induce vomiting<br>unless directed to do so by medical personnel. If vomiting occurs, the<br>head should be kept low so that vomit does not enter the lungs. Get<br>medical attention. Never give anything by mouth to an unconscious<br>person. If unconscious, place in recovery position and get medical<br>attention immediately. Maintain an open airway. Loosen tight clothing<br>such as a collar, tie, belt or waistband. |

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

| Eye contact<br>Inhalation    | : | Causes serious eye irritation.<br>May cause allergy or asthma symptoms or breathing difficulties if<br>inhaled. |
|------------------------------|---|---|
| Skin contact                 | : | Causes skin irritation. May cause an allergic skin reaction.  |
| Ingestion                    | : | No known significant effects or critical hazards.   |
| Over-exposure signs/symptoms |   |   |
| Eye contact                  | : | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness                        |
| Inhalation                   | : | Adverse symptoms may include the following:<br>wheezing and breathing difficulties<br>asthma                    |
| Skin contact                 | : | Adverse symptoms may include the following: irritation  |
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| Ingestion                         | :        | redness<br>No specific data.   |
|-----------------------------------|----------|--|
| Indication of immediate medical a | attentio | n and special treatment needed, if necessary   |
| Notes to physician                | :        | In case of inhalation of decomposition products in a fire, symptoms<br>may be delayed. The exposed person may need to be kept under<br>medical surveillance for 48 hours.  |
| Specific treatments               | :        | No specific treatment.   |
| Protection of first-aiders        | :        | No action shall be taken involving any personal risk or without<br>suitable training. If it is suspected that fumes are still present, the<br>rescuer should wear an appropriate mask or self-contained breathing<br>apparatus. It may be dangerous to the person providing aid to give<br>mouth-to-mouth resuscitation. Wash contaminated clothing<br>thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

# Section 5. Firefighting measures

#### **Extinguishing media**

| Suitable extinguishing media<br>Unsuitable extinguishing media  | : | In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$ .<br>None known.   |
|---|---|---|
| Specific hazards arising from the<br>chemical<br>Hazardous thermal<br>decomposition products          | : | In a fire or if heated, a pressure increase will occur and the container<br>may burst.<br>Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>sulfur oxides<br>metal oxide/oxides  |
| Special protective actions for fire-<br>fighters<br>Special protective equipment for<br>fire-fighters | : | Promptly isolate the scene by removing all persons from the vicinity<br>of the incident if there is a fire. No action shall be taken involving any<br>personal risk or without suitable training.<br>Fire-fighters should wear appropriate protective equipment and self-<br>contained breathing apparatus (SCBA) with a full face-piece operated<br>in positive pressure mode. |

# Section 6. Accidental release measures



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

| For non-emergency personnel<br>For emergency responders | :    | No action shall be taken involving any personal risk or without<br>suitable training. Evacuate surrounding areas. Keep unnecessary and<br>unprotected personnel from entering. Do not touch or walk through<br>spilled material. Avoid breathing vapor or mist. Provide adequate<br>ventilation. Wear appropriate respirator when ventilation is<br>inadequate. Put on appropriate personal protective equipment.<br>If specialized clothing is required to deal with the spillage, take note<br>of any information in Section 8 on suitable and unsuitable materials.<br>See also the information in "For non-emergency personnel".  |
|---|------|---|
| Environmental precautions                               | :    | Avoid dispersal of spilled 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).   |
| Methods and materials for containme                     | nt a | nd cleaning up  |
| Small spill   | :    | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.   |
| Large spill   | :    | Stop leak if without risk. Move containers from spill area. Approach<br>release from upwind. Prevent entry into sewers, water courses,<br>basements or confined areas. Wash spillages into an effluent treatment<br>plant or proceed as follows. Contain and collect spillage with non-<br>combustible, absorbent material e.g. sand, earth, vermiculite or<br>diatomaceous earth and place in container for disposal according to<br>local regulations (see Section 13). Dispose of via a licensed waste<br>disposal contractor. Contaminated absorbent material may pose the<br>same hazard as the spilled product. Note: see Section 1 for emergency<br>contact information and Section 13 for waste disposal. |

# Section 7. Handling and storage

### Precautions for safe handling

| Protective measures | : | Put on appropriate personal protective equipment (see Section 8).<br>Persons with a history of skin sensitization problems or asthma,<br>allergies or chronic or recurrent respiratory disease should not be<br>employed in any process in which this product is used. Avoid<br>exposure - obtain special instructions before use. Do not handle until<br>all safety precautions have been read and understood. Do not get in |
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|                     |   |   |



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|                          |  |
|                          |  |
|                          | eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or |

mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 Eating, drinking and smoking should be prohibited in areas where this : material is handled, stored and processed. Workers should wash hands hygiene 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. Store in accordance with local regulations. Store in original container Conditions for safe storage, protected from direct sunlight in a dry, cool and well-ventilated area, including any incompatibilities away from incompatible materials (see Section 10) and food and drink. Store in a well-ventilated place. 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 unlabeled containers. Use appropriate containment to avoid

environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

| Ingredient name                      | Exposure limits                         |
|--------------------------------------|---|
| Miscellaneous Compounds Distillates, |   |
| petroleum, hydrotreated middle       |   |
|                                      |   |
|                                      |   |
| Sodium bicarbonate                   |   |
|                                      |   |
|                                      |   |
|                                      |   |
| Azodicarbonamide                     |   |
|                                      |   |
|                                      |   |
| Calcium oxide                        | OSHA PEL 1989 (1989-03-01)              |
|                                      | PEL: Permissible Exposure Level 5 mg/m3 |
|                                      | OSHA PEL (1993-06-30)                   |
|                                      | PEL: Permissible Exposure Level 5 mg/m3 |



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|                                     | NIOSH REL (1994-06-01)<br>Time Weighted Average (TWA) 2 mg/m3  |  |  |
|-------------------------------------|--|--|--|
|                                     | ACGIH TLV (1994-09-01)   |  |  |
|                                     | TLV-TWA: Threshold Limit Value - Time weighted average PEL:  |  |  |
|                                     | Permissible Exposure Level 2 mg/m3   |  |  |
|                                     | 1 0  |  |  |
| Diphenyloxide-4,4'-disulfohydrazide | ACGIH TLV (2000-03-01)   |  |  |
|                                     | TLV-TWA: Threshold Limit Value - Time weighted average PEL:  |  |  |
|                                     | Permissible Exposure Level 0.1 mg/m3 Form: Inhalable fraction  |  |  |
|                                     |  |  |  |
| Quartz                              | OSHA PEL 1989 (1989-03-01) Calculated as Quartz  |  |  |
|                                     | PEL: Permissible Exposure Level 0.1 mg/m3 Form: Respirable dust  |  |  |
|                                     | OSHA PEL Z3 (1997-09-03)   |  |  |
|                                     | Time Weighted Average (TWA) Form: Respirable   |  |  |
|                                     | <b>Time Weighted Average (TWA)</b> 10 mg/m3 Form: Respirable<br><b>Time Weighted Average (TWA)</b> 30 mg/m3 Form: Total dust             |  |  |
|                                     | NIOSH REL (1994-06-01)   |  |  |
|                                     | Time Weighted Average (TWA) 0.05 mg/m3 Form: Respirable dust   |  |  |
|                                     | ACGIH TLV (2005-12-09)   |  |  |
|                                     | TLV-TWA: Threshold Limit Value - Time weighted average PEL:  |  |  |
|                                     | Permissible Exposure Level 0.025 mg/m3 Form: Respirable fraction   |  |  |
|                                     | OSHA PEL (2016-06-23)  |  |  |
|                                     | PEL: Permissible Exposure Level 0.05 mg/m3 Form: Respirable dust   |  |  |
|                                     |  |  |  |
| Appropriate engineering controls    | Use only with adequate ventilation. If user operations generate dust,  |  |  |
| Appropriate engineering controls    | : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor 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.   |  |  |
| 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.  |  |  |
| Individual protection measures      |  |  |  |
| marmun processi mensures            |  |  |  |
| 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   |  |  |
| Evalfage protection                 | and safety showers are close to the workstation location.<br>Safety eyewear complying with an approved standard should be used           |  |  |
| Eye/face protection                 | when a risk assessment indicates this is necessary to avoid exposure to  |  |  |
|                                     | when a fisk assessment indicates this is necessary to avoid exposure to  |  |  |

**Skin protection** 

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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: chemical splash goggles.

| Hand protection        | : Chemical-resistant, impervious gloves cor<br>standard should be worn at all times when<br>if a risk assessment indicates this is necess<br>parameters specified by the glove manufac<br>the gloves are still retaining their protectiv<br>noted that the time to breakthrough for any<br>different for different glove manufacturers<br>consisting of several substances, the prote-<br>cannot be accurately estimated. | handling chemical products<br>sary. Considering the<br>cturer, check during use that<br>ve properties. It should be<br>y glove material may be<br>s. In the case of mixtures, |
|------------------------|---|---|
| Body protection        | : Personal protective equipment for the bod<br>on the task being performed and the risks<br>approved by a specialist before handling the  | involved and should be  |
| Other skin protection  | : Appropriate footwear and any additional s<br>should be selected based on the task being<br>involved and should be approved by a spe<br>product.   | kin protection measures<br>performed and the risks  |
| Respiratory protection | : Based on the hazard and potential for expo<br>meets the appropriate standard or certifica<br>used according to a respiratory protection<br>fitting, training, and other important aspec   | tion. Respirators must be program to ensure proper  |

# Section 9. Physical and chemical properties

#### Appearance

| Physical state            | : | liquid [liquid]              |
|---------------------------|---|------------------------------|
| Color                     | : | NOT APPLICABLE               |
| Odor                      | : | Faint odor.                  |
| Odor threshold            | : | Not available.               |
| рН                        | : | Not available.               |
| Melting point             | : | Not available.               |
| Boiling point             | : | Not available.               |
| Flash point               | : | Not available.               |
| Burning time              | : | Not available.               |
| Burning rate              | : | Not available.               |
| Evaporation rate          | : | Not available.               |
| Flammability (solid, gas) | : | Not available.               |
| Lower and upper explosive | : | Lower: Not available.        |
| (flammable) limits        |   | <b>Upper:</b> Not available. |

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| Vapor pressure                             | : | Not available.            |
|--|---|---------------------------|
| Vapor density                              | : | Not available.            |
| Relative density                           | : | Not available.            |
| Solubility                                 | : | Not available.            |
| Solubility in water                        | : | insoluble in water.       |
| Partition coefficient: n-<br>octanol/water | : | Not available.            |
| Auto-ignition temperature                  | : | Not available.            |
| Decomposition temperature                  | : | Not available.            |
| SADT                                       | : | Not available.            |
| Viscosity                                  | : | Dynamic: Not available.   |
| -  |   | Kinematic: Not available. |

# Section 10. Stability and reactivity

| Reactivity                         | : | No specific test data related to reactivity available for this product or its ingredients.           |
|------------------------------------|---|--|
| Chemical stability                 | : | Stable under recommended storage and handling conditions (see Section 7).                            |
| Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| Conditions to avoid                | : | Keep away from extreme heat and oxidizing agents.  |
| Incompatible materials             | : | Keep away from strong acids.<br>Oxidizer.  |
| Hazardous decomposition products   | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

# Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

#### Information on toxicological effects

#### Acute toxicity

| Result  | Species   | Dose  | Exposure   |  |
|---|---|---|--|--|
|   |   |   |  |  |
| LD50 Oral   | Rat   | 6,400 mg/kg                                   | -  |  |
|   |   |   |  |  |
| LD50 Oral   | Rat   | 4,220 mg/kg                                   | -  |  |
| Miscellaneous Compounds Distillates, petroleum, hydrotreated middle |   |   |  |  |
| drazide   | -   |   |  |  |
|   | LD50 Oral<br>LD50 Oral<br>istillates, petroleur | LD50 Oral Rat   LD50 Oral Rat   LD50 Oral Rat | LD50 Oral Rat 6,400 mg/kg   LD50 Oral Rat 4,220 mg/kg   istillates, petroleum, hydrotreated middle |  |



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|                                     | LD50 Oral                   | Rat              |         | 2,300 mg/kg          | -           |  |
|-------------------------------------|-----------------------------|------------------|---------|----------------------|-------------|--|
| Quartz                              |                             |                  |         |                      |             |  |
| Conclusion/Summary                  | : Mixture.Not fully tested. |                  |         |                      |             |  |
| ·                                   |                             | •                |         |                      |             |  |
| Irritation/Corrosion                |                             |                  |         |                      |             |  |
| Product/ingredient name             | Result                      | Species S        | Score   | Exposure             | Observation |  |
| Sodium bicarbonate                  | Eyes - Mild                 | Rabbit           |         | 0.008 hrs            | -           |  |
|                                     | irritant                    |                  |         |                      |             |  |
|                                     | Skin - Mild                 | Human            |         | 72 hrs               | -           |  |
|                                     | irritant                    |                  |         |                      |             |  |
| Conclusion/Summary                  |                             |                  |         |                      |             |  |
| Skin                                | : M                         | ixture.Not fully | tested. |                      |             |  |
| Eyes                                |                             | ixture.Not fully |         |                      |             |  |
| Respiratory                         |                             | ixture.Not fully |         |                      |             |  |
|                                     |                             |                  |         |                      |             |  |
| Sensitization                       |                             |                  |         |                      |             |  |
|                                     |                             |                  |         |                      |             |  |
| Conclusion/Summary                  |                             |                  |         |                      |             |  |
| Skin                                | : M                         | ixture.Not fully | tested. |                      |             |  |
| Respiratory                         | : M                         | ixture.Not fully | tested. |                      |             |  |
|                                     |                             |                  |         |                      |             |  |
| <u>Mutagenicity</u>                 |                             |                  |         |                      |             |  |
|                                     |                             |                  |         |                      |             |  |
| <b>Conclusion/Summary</b>           | : M                         | ixture.Not fully | tested. |                      |             |  |
|                                     |                             |                  |         |                      |             |  |
| <b>Carcinogenicity</b>              |                             |                  |         |                      |             |  |
| ~                                   |                             |                  | _       |                      |             |  |
| Conclusion/Summary                  | : M                         | ixture.Not fully | tested. |                      |             |  |
| Classification                      |                             |                  |         |                      |             |  |
| Product/ingredient                  | OSHA                        | IARC             | NTP     |                      |             |  |
| name                                |                             | 1                | 17      |                      |             |  |
| Quartz                              |                             | 1                | Known t | to be a human carcin | ogen.       |  |
|                                     |                             |                  |         |                      |             |  |
| <b><u>Reproductive toxicity</u></b> |                             |                  |         |                      |             |  |
| Conclusion/Servicesons              | Martine Mart Cilla (and d   |                  |         |                      |             |  |
| Conclusion/Summary                  | : Mixture.Not fully tested. |                  |         |                      |             |  |
| Torotogonicity                      |                             |                  |         |                      |             |  |
| <b>Teratogenicity</b>               |                             |                  |         |                      |             |  |
| Conclusion/Summary                  | : Mixture.Not fully tested. |                  |         |                      |             |  |
| Soliciusion, Sulliniar y            | • 101                       | inter chi tully  | usica.  |                      |             |  |

### Specific target organ toxicity (single exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| Calcium oxide           | Category 3 |                   | Respiratory tract irritation |
|                         |            |                   |                              |



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| Product/ingredient name   | Category 1                    |   | Route of exposure  | Target organs  |
|---|-------------------------------|---|--|--|
| Quartz  |                               |   |  |  |
| Aspiration hazard   | ·                             |   |  | •  |
| Product/ingredient name   |                               |   | Result   |  |
| Miscellaneous Compounds Di<br>hydrotreated middle                                     | istillates, petro             | oleum,  | ASPIRATION HAZA  | ARD - Category 1                                       |
| Information on likely routes<br>exposure  | of :                          | Not availabl  | e.   |  |
| Potential acute health effect   | <u>s</u>                      |   |  |  |
| Eye contact<br>Inhalation   | :                             |   | ous eye irritation.<br>llergy or asthma sympto   | oms or breathing difficulties if                       |
| Skin contact  | :                             |   | irritation. May cause an   | allergic skin reaction.                                |
|   |                               |   |  |  |
| Ingestion   | :                             | No known s  | ignificant effects or criti  | cal hazards.   |
| Ingestion<br><u>Symptoms related to the phy</u><br>Eye contact                        |                               | No known s<br>cal and toxico<br>Adverse sym<br>pain or irrita<br>watering   | ignificant effects or criti<br><b>ological characteristics</b><br>nptoms may include the   | cal hazards.   |
| Symptoms related to the phy   | ysical, chemic                | No known st<br>cal and toxico<br>Adverse sym<br>pain or irrita<br>watering<br>redness<br>Adverse sym<br>wheezing an   | ignificant effects or criti<br><b>ological characteristics</b><br>nptoms may include the   | cal hazards.<br>following:                             |
| Symptoms related to the phy<br>Eye contact  | vsical, chemic<br>:           | No known st<br>cal and toxico<br>Adverse sym<br>pain or irrita<br>watering<br>redness<br>Adverse sym<br>wheezing an<br>asthma   | ignificant effects or critical characteristics<br>plogical characteristics<br>ptoms may include the<br>tion<br>ptoms may include the   | cal hazards.<br>following:<br>following:               |
| Symptoms related to the phy<br>Eye contact<br>Inhalation<br>Skin contact              | vsical, chemic<br>:<br>:      | No known s<br>cal and toxico<br>Adverse sym<br>pain or irrita<br>watering<br>redness<br>Adverse sym<br>wheezing an<br>asthma<br>Adverse sym<br>irritation                             | ignificant effects or critical characteristics<br>plogical characteristics<br>ptoms may include the<br>tion<br>ptoms may include the<br>d breathing difficulties<br>ptoms may include the            | cal hazards.<br>following:<br>following:               |
| Symptoms related to the phy<br>Eye contact<br>Inhalation<br>Skin contact<br>Ingestion | vsical, chemic<br>:<br>:<br>: | No known s<br>cal and toxico<br>Adverse sym<br>pain or irrita<br>watering<br>redness<br>Adverse sym<br>wheezing an<br>asthma<br>Adverse sym<br>irritation<br>redness<br>No specific o | ignificant effects or critical characteristics<br>ological characteristics<br>optoms may include the<br>tion<br>ptoms may include the<br>d breathing difficulties<br>optoms may include the<br>data. | cal hazards.<br>following:<br>following:<br>following: |
| Symptoms related to the phy<br>Eye contact<br>Inhalation                              | vsical, chemic<br>:<br>:<br>: | No known s<br>cal and toxico<br>Adverse sym<br>pain or irrita<br>watering<br>redness<br>Adverse sym<br>wheezing an<br>asthma<br>Adverse sym<br>irritation<br>redness<br>No specific o | ignificant effects or critical characteristics<br>ological characteristics<br>optoms may include the<br>tion<br>ptoms may include the<br>d breathing difficulties<br>optoms may include the<br>data. | cal hazards.<br>following:<br>following:<br>following: |



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| Potential immediate effects<br>Potential delayed effects | : | Not available.<br>Not available.  |
|--|---|---|
| Potential chronic health effects                         |   |   |
| Conclusion/Summary                                       | : | Mixture.Not fully tested.   |
| General  | : | Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity  | : | No known significant effects or critical hazards.   |
| Mutagenicity   | : | Suspected of causing genetic defects.   |
| Teratogenicity   | : | No known significant effects or critical hazards.   |
| <b>Developmental effects</b>                             | : | No known significant effects or critical hazards.   |
| Fertility effects  | : | No known significant effects or critical hazards.   |

Numerical measures of toxicity

### Acute toxicity estimates

| Route                        | ATE value      |
|------------------------------|----------------|
| Oral                         | 19,787.3 mg/kg |
| Route                        | ATE value      |
| Inhalation (dusts and mists) | 7.512 mg/l     |

# Section 12. Ecological information

### **Toxicity**

| Product/ingredient name | Result                      | Species     | Exposure |
|-------------------------|-----------------------------|-------------|----------|
| Calcium oxide           |                             |             |          |
|                         | Chronic NOEC 100 mg/l Fresh | Fish - Fish | 46 d     |
|                         | water                       |             |          |
|                         | Chronic NOEC 100 mg/l Fresh | Fish - Fish | 46 d     |
|                         | water                       |             |          |
|                         | Chronic NOEC 100 mg/l Fresh | Fish - Fish | 46 d     |
|                         | water                       |             |          |
|                         | Chronic NOEC 100 mg/l Fresh | Fish - Fish | 46 d     |
|                         | water                       |             |          |
|                         | Chronic NOEC 100 mg/l Fresh | Fish - Fish | 46 d     |
|                         | water                       |             |          |
| Sodium bicarbonate      |                             |             |          |



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|                           | Acute LC50 8,600,000 µg/l Fresh    | Fish - Fish  | 96 h                  |  |  |  |
|---------------------------|------------------------------------|--|-----------------------|--|--|--|
|                           | water                              |  |                       |  |  |  |
|                           | Acute LC50 8,600,000 µg/l Fresh    | Fish - Fish  | 96 h                  |  |  |  |
|                           | water                              |  |                       |  |  |  |
|                           | Acute LC50 8,600,000 µg/l Fresh    | Fish - Fish  | 96 h                  |  |  |  |
|                           | water                              |  |                       |  |  |  |
|                           | Acute LC50 8,250,000 µg/l Fresh    | Fish - Fish  | 96 h                  |  |  |  |
|                           | water                              |  |                       |  |  |  |
|                           | Acute LC50 7,550 mg/l Fresh        | Fish - Fish  | 96 h                  |  |  |  |
|                           | water                              |  |                       |  |  |  |
|                           | Acute LC50 767.87 mg/l Marine      | Aquatic invertebrates.   | 48 h                  |  |  |  |
|                           | water                              | Crustaceans  |                       |  |  |  |
|                           | Acute LC50 1,415.51 mg/l Marine    | Aquatic invertebrates.   | 48 h                  |  |  |  |
|                           | water                              | Crustaceans  |                       |  |  |  |
|                           | Acute EC50 650,000 µg/l Fresh      | Aquatic plants - Algae   | 96 h                  |  |  |  |
|                           | water                              |  |                       |  |  |  |
|                           | Chronic NOEC 576 mg/l Fresh        | Aquatic invertebrates.   | 21 d                  |  |  |  |
|                           | water                              | Daphnia  |                       |  |  |  |
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| Remarks - Acute - Aquatic | Dangerous for the environment: May | cause long term adverse e  | ffects in the aquatic |  |  |  |
| invertebrates.:           | environment.                       |  |                       |  |  |  |
| Conclusion/Summary        | : Dangerous for the enviro         | : Dangerous for the environment: May cause long term adverse effects |                       |  |  |  |
| -                         | in the aquatic environme           | ent.   |                       |  |  |  |
|                           | =                                  |  |                       |  |  |  |

#### Persistence and degradability

| Conclusion/Summary | : | Not available.  |
|--------------------|---|---|
| Conclusion/Summary | : | Dangerous for the environment: May cause long term adverse effects<br>in the aquatic environment. |

#### Bioaccumulative potential

| Product/ingredient name | LogPow | BCF  | Potential |
|-------------------------|--------|------|-----------|
| Calcium oxide           |        | 2.34 | low       |
| Azodicarbonamide        | 1      | -    | low       |
| Diphenyloxide-4,4'-     |        | 3.00 | low       |
| disulfohydrazide        |        |      |           |

#### <u>Mobility in soil</u>

| Soil/water partition coefficient | : | Not available.                                    |
|----------------------------------|---|---|
| (KOC)                            |   |   |
| Other adverse effects            | : | No known significant effects or critical hazards. |



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# Section 13. Disposal considerations

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**Disposal methods** 

The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

# Section 14. Transport information

| U.S.DOT 49CFR<br>Ground/Air/Water | : | Not regulated for transportation.                              |
|-----------------------------------|---|--|
| International Air<br>ICAO/IATA    | : | Not classified as dangerous goods under transport regulations. |
| International Water<br>IMO/IMDG   | : | Not classified as dangerous goods under transport regulations. |

# Section 15. Regulatory information

| U.S. Federal regulations | : | United States - TSCA 12(b) - Chemical export notification: None<br>of the components are listed.<br>United States - TSCA 4(a) - Final Test Rules: Not listed<br>United States - TSCA 4(a) - ITC Priority list: Not listed<br>United States - TSCA 4(a) - Proposed test rules: Not listed<br>United States - TSCA 4(f) - Priority risk review: Not listed<br>United States - TSCA 4(f) - Priority risk review: Not listed<br>United States - TSCA 5(a)2 - Final significant new use rules: Not |
|--------------------------|---|---|
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|   |   | listed<br>United States - TSCA 5(a)2 - Proposed significant new use rules:<br>Not listed<br>United States - TSCA 5(e) - Substances consent order: Not listed<br>United States - TSCA 6 - Final risk management: Not listed<br>United States - TSCA 6 - Proposed risk management: Not listed<br>United States - TSCA 8(a) - Chemical risk rules: Not listed<br>United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed<br>United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not<br>determined<br>United States - TSCA 8(a) - Preliminary assessment report<br>(PAIR): Listed Diphenyloxide-4,4'-disulfohydrazide |
|---|---|---|
|   |   | United States - TSCA 8(c) - Significant adverse reaction (SAR):<br>Not listed<br>United States - TSCA 8(d) - Health and safety studies: Not listed<br>United States - EPA Clean water act (CWA) section 307 - Priority<br>pollutants: Listed Zinc oxide   |
|   |   | United States - EPA Clean water act (CWA) section 311 -<br>Hazardous substances: Listed<br>United States - EPA Clean air act (CAA) section 112 - Accidental<br>release prevention - Flammable substances: Not listed<br>United States - EPA Clean air act (CAA) section 112 - Accidental<br>release prevention - Toxic substances: Not listed<br>United States - Department of commerce - Precursor chemical:<br>Not listed   |
| Clean Air Act Section 112(b)<br>Hazardous Air Pollutants (HAPs) | : | Not listed  |
| Clean Air Act Section 602 Class I<br>Substances                 | : | Not listed  |
| Clean Air Act Section 602 Class II<br>Substances                | : | Not listed  |
| DEA List I Chemicals (Precursor<br>Chemicals)                   | : | Not listed  |
| ,   |   |   |

### **DEA List II Chemicals (Essential** : Not listed

:

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

### SARA 311/312

**Chemicals**)

Classification

#### Immediate (acute) health hazard Delayed (chronic) health hazard

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#### **Composition/information on ingredients**

| Name  | %       | Classification |
|---|---------|----------------|
| Calcium oxide   | 1 - 5   | АН             |
| Azodicarbonamide  | 1 - 5   | АН             |
| Sodium bicarbonate  | 10 - 30 | АН             |
| Miscellaneous Compounds<br>Distillates, petroleum,<br>hydrotreated middle | 10 - 30 | АН             |
| Diphenyloxide-4,4'-<br>disulfohydrazide                                   | 1 - 5   | F, AH, CH      |
| Quartz  | 0.1 - 1 | СН             |

#### SARA 313

Not applicable.

#### State regulations Massachusetts None of the components are listed. : New York None of the components are listed. : The following components are listed: **New Jersey** : Quartz Diphenyloxide-4,4'-disulfohydrazide Calcium oxide Pennsylvania The following components are listed: : Calcium oxide Quartz California Prop. 65 WARNING: This product contains a chemical known to the State of California to cause cancer. United States inventory (TSCA 8b) All components are listed or exempted. : **Canada inventory** All components are listed or exempted. : **International regulations Inventory list** Australia All components are listed or exempted. :

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| Canada            | : | All components are listed or exempted. |
|-------------------|---|--|
| China             | : | All components are listed or exempted. |
| Europe inventory  | : | All components are listed or exempted. |
| Japan             | : | Not determined.                        |
| New Zealand       | : | All components are listed or exempted. |
| Philippines       | : | All components are listed or exempted. |
| Republic of Korea | : | All components are listed or exempted. |
| Taiwan            | : | Not determined.                        |
| Turkey            | : | Not determined.                        |
| United States     | : | All components are listed or exempted. |
|                   |   |  |

# Section 16. Other information

#### Hazardous Material Information System (U.S.A.) :

| Health           | * | 1 |
|------------------|---|---|
| Flammability     |   | 0 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

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| Date of issue/Date of revision | : | 09/06/2017  |
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| Version                        | : | 1.1   |
| Key to abbreviations           | : | ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of |
|                                |   | Chemicals   |
|                                |   | IATA = International Air Transport Association  |
|                                |   | IBC = Intermediate Bulk Container   |
|                                |   | IMDG = International Maritime Dangerous Goods   |
|                                |   | LogPow = logarithm of the octanol/water partition coefficient   |
|                                |   | MARPOL = International Convention for the Prevention of Pollution From  |
|                                |   | Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  |
|                                |   | UN = United Nations   |
| References                     | : | Not available.  |
| Notice to reader               |   |   |

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