# GeeJay Chemicals Ltd. SAFETY DATA SHEET

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

| 1.1. Product identifier               |   |
|---------------------------------------|---|
| Trade name or designation             | SILICA GEL self-indicating, orange-colourless                                       |
| of the mixture                        | SILICA GEL sell-indicating, orange-colouness  |
|                                       |   |
| Registration number                   | -   |
| Synonyms                              | amorphous silicon dioxide * synthetic amorphous silica                              |
| Issue date                            | 19-February-2014  |
| Version number                        | 03  |
| Revision date                         | 19-July-2016  |
| Supersedes date                       | 29-September-2015   |
| 1.2. Relevant identified uses of the  | substance or mixture and uses advised against                                       |
| Identified uses                       | Desiccant. For adsorption of moisture and prevention of corrosion and mould growth. |
| Uses advised against                  | None known.   |
| 1.3. Details of the supplier of the s | afety data sheet  |
| Manufacturer                          | GeeJay Chemicals Ltd.   |
| Address                               | 1 Beamish Close,  |
|                                       | Sandy,  |
|                                       | Bedfordshire,   |
|                                       | SG19 1SD  |
| Country                               | U.K.  |
| Telephone                             | +44 (0)1767 682774  |
| Fax                                   | +44 (0)1767 699697  |
| e-mail                                | sales@geejaychemicals.co.uk   |
| Contact                               | Jon Spencer   |
| Web site                              | www.geejaychemicals.co.uk   |
| 1.4 Emergency telephone               | +44 (0)1767 682774 (08:00 - 16:30)  |
| number                                |   |
|                                       | Gentler   |
| SECTION 2: Hazards identit            | lication  |

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary Exposure to powder or dusts may be irritating to eyes, nose and throat. Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

#### 2.2. Label elements

# Label according to Regulation (EC) No. 1272/2008 as amended

| Hazard pictograms              | None.  |
|--------------------------------|--|
| Signal word                    | None.  |
| Hazard statements              | The mixture does not meet the criteria for classification.                     |
| Precautionary statements       |  |
| Prevention                     | Observe good industrial hygiene practices.                                     |
| Response                       | Wash hands after handling.   |
| Storage                        | Store away from incompatible materials.  |
| Disposal                       | Dispose of waste and residues in accordance with local authority requirements. |
| Supplemental label information | None.  |
| 2.3. Other hazards             | None known.  |

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

#### 3.2. Mixtures

#### General information

| Chemical name              | %           | CAS-No. / EC<br>No. | REACH Registration No. | INDEX No. | Notes |
|----------------------------|-------------|---------------------|------------------------|-----------|-------|
| Amorphous silica           | >98         | 7631-86-9           | 01-2119379499-16-0124  | -         |       |
|                            |             | 231-545-4           |                        |           |       |
| Classification:            |             |                     |                        |           |       |
| Ammonium Ferric Sulphate   | <=1         | 7783-83-7           | -                      | -         |       |
| Dodecahydrate              |             | *616-517-5          |                        |           |       |
| Classification: Skin Irrit | 2;H315, Eye | Irrit. 2;H319       |                        |           |       |

#### List of abbreviations and symbols that may be used above

M: M-factor

**General information** 

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

#### Composition comments The full text for all H-statements is displayed in section 16.

#### SECTION 4: First aid measures

IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

#### 4.1. Description of first aid measures

| Inhalation  | Move to fresh air. Call a physician if symptoms develop or persist.  |
|---|--|
| Skin contact  | Wash the skin immediately with soap and water. Take off contaminated clothing and wash before reuse.<br>Get medical attention if irritation develops and persists.                           |
| Eye contact   | Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes.<br>Get medical attention if irritation develops and persists.  |
| Ingestion   | If swallowed, rinse mouth with water (only if the person is conscious). Drink water as a precaution.<br>If ingestion of a large amount does occur, call a poison control centre immediately. |
| 4.2. Most important symptoms<br>and effects, both acute and<br>delayed                | Dusts may irritate the respiratory tract, skin and eyes.   |
| 4.3. Indication of any immediate<br>medical attention and special<br>treatment needed | Treat symptomatically.   |

#### **SECTION 5: Firefighting measures**

| General fire hazards   | Not a fire hazard. No unusual fire or explosion hazards noted.  |
|--|---|
| 5.1. Extinguishing media<br>Suitable extinguishing<br>media                      | Use fire-extinguishing media appropriate for surrounding materials.   |
| Unsuitable extinguishing   | None known.   |
| media  | Do not use water jet as an extinguisher, as this will spread the fire.  |
| 5.2. Special hazards arising<br>from the substance or mixture                    | No unusual fire or explosion hazards noted.   |
| 5.3. Advice for firefighters<br>Special protective<br>equipment for firefighters | Wear self-contained breathing apparatus and protective clothing.  |
| Special fire fighting<br>procedures  | Move containers from fire area if you can do so without risk.<br>No unusual fire or explosion hazards noted. Fire residues and contaminated fire extinguishing<br>water must be disposed of in accordance with local regulations. |
| Specific methods   | Use standard firefighting procedures and consider the hazards of other involved materials.  |

#### **SECTION 6: Accidental release measures**

| 6.1. Personal precautions, protect                           | live equipment and emergency procedures  |
|--|--|
| For non-emergency<br>personnel                               | Use personal protective equipment.<br>Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during<br>clean-up. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated<br>above exposure limits. Ensure adequate ventilation.<br>For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces. |
| For emergency responders                                     | As detailed in section for non-emergency personnel. Use personal protection recommended in Section 8 of the SDS.   |
| 6.2. Environmental precautions                               | Avoid discharge into drains, water courses or onto the ground.   |
| 6.3. Methods and material for<br>containment and cleaning up | Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.  |
|  | Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.  |
|  | Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.   |
| 6.4. Reference to other sections                             | For personal protection, see section 8. For waste disposal, see section 13 of the SDS.   |
| SECTION 7: Handling and                                      | storage  |
| 7.1. Precautions for safe handling                           | Provide appropriate exhaust ventilation at places where dust is formed. Static electricity and formation of sparks must be prevented. Do not breathe dust from this material.  |

|   | Avoid contact with eyes.<br>Avoid prolonged exposure. Forms smooth, slippery surfaces on floors, posing an accident risk.<br>Practice good housekeeping.   |
|---|--|
| 7.2. Conditions for safe storage, including any incompatibilities | Avoid dust formation. Keep containers tightly closed in a dry, cool and well-ventilated place.<br>Keep in air-tight containers- material is hygroscopic.<br>Guard against dust accumulation of this material. Store away from incompatible materials (see<br>Section 10 of the SDS). |
| 7.3. Specific end use(s)  | The specified uses for this material are shown in section 1 of this document   |

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### Occupational exposure limits

#### UK. EH40 Workplace Exposure Limits (WELs)

| Additional components               |           | Туре                  |                       | Value     | Form                 |
|-------------------------------------|-----------|-----------------------|-----------------------|-----------|----------------------|
| General dust                        |           | TWA                   |                       | 4 mg/m3   | Respirable dust.     |
|                                     |           |                       |                       | 10 mg/m3  | Inhalable dust.      |
| United Kingdom                      |           |                       |                       |           |                      |
| Components                          |           | Туре                  |                       | Value     | Form                 |
| Amorphous silica (CAS<br>7631-86-9) |           | TWA                   |                       | 6 mg/m3   | Inhalable dust.      |
|                                     |           |                       |                       | 2.4 mg/m3 | Respirable dust.     |
| logical limit values                | No biolog | gical exposure limits | noted for the ingredi | ent(s).   |                      |
| commended monitoring<br>ocedures    | Follow st | andard monitoring p   | rocedures.            |           |                      |
| rived no-effect level (DNEL)        |           |                       |                       |           |                      |
| Components                          |           | Туре                  | Route                 | Value     | Form                 |
| Amorphous silica (CAS 7631          | -86-9)    | Industry              | Inhalation            | 4 mg/m3   | Respirable fraction. |

# Predicted no effect concentrations (PNECs)

#### 8.2. Exposure controls

Not available.

| Appropriate engineering controls    | Good general ventilation (typically 10 air changes per hour) should be used.   |
|-------------------------------------|--|
|                                     | Ventilation rates should be matched to conditions.   |
|                                     | If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to   |
|                                     | maintain airborne levels below recommended exposure limits.  |
|                                     | If exposure limits have not been established, maintain airborne levels to an acceptable level.   |
|                                     | Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes   |
|                                     | that may be generated during handling or thermal processing. If engineering measures are not   |
|                                     | sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure  |
|                                     | limit), suitable respiratory protection must be worn.  |
| Individual protection measures, suc | ch as personal protective equipment  |
| General information                 | Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Eye wash fountain is recommended. Keep working clothes separately. Launder contaminated clothing before reuse. |
| Eye/face protection                 | Wear safety glasses with side shields (or goggles). Avoid contact with eyes. (EN166)   |
| Skin protection                     |  |
| - Hand protection                   | Suitable gloves can be recommended by the glove supplier. Use protective gloves made of: PVC or other plastic material gloves. (EN374)   |
| - Other                             | Normal work clothing (long sleeved shirts and long pants) is recommended.  |
|                                     | Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.  |
| Respiratory protection              | In case of insufficient ventilation, wear suitable respiratory equipment. Dust Mask. Respirator type FFP2 or FFP3 (EN 149:2001)  |
| Thermal hazards                     | None known.  |
| Hygiene measures                    | Do not get this material in contact with eyes. Do not breathe dust. When using, do not eat, drink or smoke.  |
|                                     | Always observe good personal hygiene measures, such as washing after handling the material<br>and before eating, drinking, and/or smoking. Routinely wash work clothing and protective<br>equipment to remove contaminants.  |
| Environmental exposure controls     | No special measures required   |

# **SECTION 9: Physical and chemical properties**

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

| Appearance                              | Dry flowable granules.                      |
|---|---|
| Physical state                          | Solid.                                      |
| Form                                    | Granules<br>Beads                           |
| Colour                                  | orange - colourless                         |
| Odour                                   | Odourless.                                  |
| Odour threshold                         | Not available.                              |
| pН                                      | 2.0 - 3.5 as a suspension @ 100g/l in water |
| Melting point/freezing point            | > 1710 °C (> 3110 °F)                       |
| Initial boiling point and boiling range | Not applicable                              |
| Flash point                             | Not applicable.                             |
| Evaporation rate                        | Not applicable                              |
| Flammability (solid, gas)               | Not available.                              |
| Upper/lower flammability or explos      | ive limits                                  |
| Flammability limit - lower<br>(%)       | Not applicable                              |
| Flammability limit - upper<br>(%)       | Not applicable                              |
| Vapour pressure                         | Not applicable                              |
| Vapour density                          | Not applicable                              |
| Relative density                        | Not available.                              |

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| Solubility(ies)           |                       |
|---------------------------|-----------------------|
| Solubility (water)        | Insoluble             |
| Solubility (other)        | Not available.        |
| Auto-ignition temperature | Not available.        |
| Decomposition temperature | Not available.        |
| Viscosity                 | Not applicable        |
| Explosive properties      | Not explosive.        |
| Oxidising properties      | Not oxidising.        |
| 9.2. Other information    |                       |
| Bulk density              | 700.00 - 750.00 kg/m3 |
| Percent volatile          | 0 % estimated         |

# **SECTION 10: Stability and reactivity**

| -   |  |
|---|--|
| 10.1. Reactivity                          | Material is stable under normal conditions.  |
| 10.2. Chemical stability                  | Material is stable under normal conditions.  |
| 10.3. Possibility of hazardous reactions  | Hazardous polymerisation does not occur.   |
| 10.4. Conditions to avoid                 | Avoid conditions which create dust. Contact with incompatible materials. Heat is evolved on contact with water |
| 10.5. Incompatible materials              | None known.  |
| 10.6. Hazardous decomposition<br>products | No dangerous reaction known under conditions of normal use.  |

#### **SECTION 11: Toxicological information**

| General information                 | Occupational exposure to the substance or mixture may cause adverse effects. This product has<br>no known adverse effect on human health.<br>Dust may be slightly irritating to eyes and respiratory tract.<br>Prolonged skin contact may cause skin irritation and/or dermatitis. |
|-------------------------------------|--|
| Information on likely routes of exp | posure   |
| Inhalation                          | Dust may irritate respiratory system. Prolonged inhalation may be harmful.   |
| Skin contact                        | Dust or powder may irritate the skin.  |
| Eye contact                         | Dust in the eyes will cause irritation.  |
| Ingestion                           | Not classified.  |
| Symptoms                            | None known.<br>Possible irritant effects. Dusts may irritate the respiratory tract, skin and eyes.   |

#### 11.1. Information on toxicological effects

| Components                | Species  | Test results                   |
|---------------------------|----------|--------------------------------|
| Amorphous silica (CAS 763 | 31-86-9) |                                |
| Acute                     |          |                                |
| Dermal                    |          |                                |
| LD50                      | Rabbit   | > 5000 mg/kg Occluded (dermal) |
| Inhalation                |          |                                |
| LC0                       | Rat      | >= 0.69 mg/l, 4 hours          |
| Oral                      |          |                                |
| LD50                      | Rat      | > 5000 mg/kg                   |
|                           |          |                                |

\* Estimates for product may be based on additional component data not shown.

| Skin corrosion/irritation            | Based on available data, the classification criteria are not met. Not irritating: OECD 404                |
|--------------------------------------|---|
| Serious eye damage/eye<br>irritation | Based on available data, the classification criteria are not met. Dust in the eyes will cause irritation. |
| Respiratory sensitisation            | Due to partial or complete lack of data the classification is not possible.                               |

| Skin sensitisation  | Frequent or prolonged contact may defat and dry the skin, le<br>Due to partial or complete lack of data the classification is no | 0                     |
|---|--|-----------------------|
| Germ cell mutagenicity  | Due to partial or complete lack of data the classification is no   | ot possible.          |
| Carcinogenicity   | Due to partial or complete lack of data the classification is no   | ot possible.          |
| IARC Monographs. Overall Ev   | aluation of Carcinogenicity  |                       |
| Amorphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity |  | nogenicity to humans. |
| Reproductive toxicity   | Due to partial or complete lack of data the classification is no   | ot possible.          |
| Specific target organ toxicity -<br>single exposure                       | Due to partial or complete lack of data the classification is no   | ot possible.          |
| Specific target organ toxicity -<br>repeated exposure                     | Due to partial or complete lack of data the classification is no   | ot possible.          |
| Aspiration hazard   | Due to partial or complete lack of data the classification is no   | ot possible.          |
| Mixture versus substance<br>information                                   | Not applicable.  |                       |
| Other information   | This product has no known adverse effect on human health.  |                       |

#### **SECTION 12: Ecological information**

| 12.1. Toxicity            | Not expec | Not expected to be harmful to aquatic organisms. |                        |
|---------------------------|-----------|--|------------------------|
| Components                |           | Species  | Test results           |
| Amorphous silica (CAS 763 | 31-86-9)  |  |                        |
| Aquatic                   |           |  |                        |
| Algae                     | NOEL      | Algae  | > 10000 mg/l, 72 hours |
| Crustacea                 | EC50      | Daphnia  | > 10000 mg/l, 24 hours |
| Fish                      | LC0       | Zebra danio (Danio rerio)                        | > 10000 mg/l, 96 hours |
|                           |           |  |                        |

\* Estimates for product may be based on additional component data not shown.

| 12.2. Persistence and degradability                | The product solely consists of inorganic compounds which are not biodegradable.   |
|--|---|
| 12.3. Bioaccumulative potential                    | Does not bioaccumulate.   |
| Partition coefficient<br>n-octanol/water (log Kow) | Not applicable. (inorganic substance)   |
| Bioconcentration factor (BCF)                      | Not available.  |
| 12.4. Mobility in soil                             | Insoluble and thus presents a low mobility in most soils  |
| Mobility in general                                | The product is immiscible with water and will sediment in water systems.  |
| 12.5. Results of PBT<br>and vPvB assessment        | Not applicable.<br>PBT/vPvB assessment not available as chemical safety assessment not required/not conducted                   |
| 12.6. Other adverse effects                        | Based on available data, there is no evidence of significant toxicity of Synthetic Amorphous Silica to environmental organisms. |

# **SECTION 13: Disposal considerations**

| 13.1. Waste treatment methods |   |
|-------------------------------|---|
| Residual waste                | Material should be recycled if possible.<br>Dispose of in accordance with local regulations. Empty containers or liners may retain some<br>product residues. This material and its container must be disposed of in a safe manner (see:<br>Disposal instructions).  |
| Contaminated packaging        | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Where possible recycling is preferred to disposal or incineration. Dispose of as unused product. |
| EU waste code                 | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.  |
| Disposal methods/information  | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.   |
| Special precautions           | Dispose in accordance with all applicable regulations.  |

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#### **SECTION 14: Transport information**

#### ADR

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

#### ADN

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### 14.7. Transport in bulk according Not applicable. to Annex II of MARPOL 73/78 and the IBC Code

#### **SECTION 15: Regulatory information**

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

#### EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

#### Not listed.

#### Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

#### Restrictions on use

- Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use Not regulated.
- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work Not listed.

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work Not regulated.

# Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.

Not regulated.

#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

| Directive 98/24/EC on the pro     | tection of the health and safety of workers from the risks related to ch  | emical agents at work.                  |
|-----------------------------------|---|---|
| Always applicable.                |   |   |
| Directive 94/33/EC on the pro     | tection of young people at work   |   |
| Not listed.                       |   |   |
| Other regulations                 | The product is classified and labelled in accordance with EC directi<br>This Safety Data Sheet complies with the requirements of Regulation<br>amended. | •                                       |
| National regulations              | Follow national regulation for work with chemical agents.   |   |
| 15.2. Chemical safety assessment  | No Chemical Safety Assessment has been carried out.   |   |
| International Inventories         |   |   |
| Country(s) or region              | Inventory name  | On inventory (yes/no)*                  |
| Australia                         | Australian Inventory of Chemical Substances (AICS)  | Yes                                     |
| Canada                            | Domestic Substances List (DSL)  | No                                      |
| Canada                            | Non-Domestic Substances List (NDSL)   | No                                      |
| China                             | Inventory of Existing Chemical Substances in China (IECSC)  | Yes                                     |
| Europe                            | European Inventory of New and Existing Chemicals (EINECS)   | Yes                                     |
| Europe                            | European List of Notified Chemical Substances (ELINCS)  | No                                      |
| Japan                             | Inventory of Existing and New Chemical Substances (ENCS)  | No                                      |
| Korea                             | Existing Chemicals List (ECL)   | No                                      |
| New Zealand                       | New Zealand Inventory   | Yes                                     |
| Philippines                       | Philippine Inventory of Chemicals and Chemical Substances (PICCS)   | Yes                                     |
| United States & Puerto Rico       | Toxic Substances Control Act (TSCA) Inventory   | No                                      |
| A "Vee" indicates that all someon | ants of this product comply with the inventory requirements administered by the   | a = a = a = a = a = a = a = a = a = a = |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

# **SECTION 16: Other information**

| List of abbreviations   | Not available.   |
|---|--|
| References  | Not available.   |
| Information on evaluation<br>method leading to the<br>classification of mixture | The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.  |
| Full text of any H-statements not<br>written out in full under Sections         |  |
| 2 to 15   | H315 Causes skin irritation.   |
|   | H319 Causes serious eye irritation.  |
| Revision information  | SECTION 8: Exposure controls/personal protection: Appropriate engineering controls   |
| Training information  | Follow training instructions when handling this material.  |
| Disclaimer  | The information in the sheet was written based on the best knowledge and experience currently available.<br>MANUFACTURER DISCLAIMER: The information given within this SDS is correct to the best of our knowledge, information and belief at the date of its revision and publication. However, the manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness, nor assumes any liability for its use. It is the user's responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representative of ours has authority to waive this provision. Please call for document accuracy if the revision date has exceeded 3 years.<br>GeeJay Chemicals Ltd. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. |