

# Labshop

## SAFETY DATA SHEET

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

#### 1.1. Product identifier

Trade name or designation of the mixture	SILICA GEL self-indicating, orange-green
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 safety data sheet

##### Manufacturer / Supplier

Address	Labshop Lage Brink 23 7317BD Apeldoorn Nederland
Country	055 5215016
Telephone	labshop@labshop.nl
Fax	www.labshop.nl
e-mail	

##### Contact

##### Web site

#### 1.4 Emergency telephone number

### SECTION 2: Hazards identification

#### 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

#### 2.3. Other hazards

Slippery, can cause falls if walked on.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Amorphous silica	>98	7631-86-9 231-545-4	01-2119379499-16-0124	-	
<b>Classification:</b>	-				
Methyl Violet (2B)	< 0.2	8004-87-3 *616-846-4	-	-	
<b>Classification:</b>	Acute Tox. 4;H302, Eye Irrit. 2;H319, Aquatic Acute 1;H400				

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

M: M-factor

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

**General information** 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.

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.

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. If ingestion of a large amount does occur, call a poison control centre immediately.

**4.2. Most important symptoms and effects, both acute and delayed** Dusts may irritate the respiratory tract, skin and eyes.

**4.3. Indication of any immediate medical attention and special 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

**Suitable extinguishing media** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media** None known.  
Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** No unusual fire or explosion hazards noted.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Wear self-contained breathing apparatus and protective clothing.

**Special fire fighting procedures** Move containers from fire area if you can do so without risk.  
No unusual fire or explosion hazards noted. Fire residues and contaminated fire extinguishing 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, protective equipment and emergency procedures

**For non-emergency personnel** Forms smooth, slippery surfaces on floors, posing an accident risk.  
Wear appropriate protective equipment and clothing during clean-up.  
Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits. Ensure adequate ventilation.  
For personal protection, see section 8.

**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 release to the environment.

**6.3. Methods and material for 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: Shovel up and place in a container for salvage or disposal. 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. Do not breathe dust from this material.  
Static electricity and formation of sparks must be prevented.  
Avoid contact with eyes. Avoid prolonged exposure.  
Practice good housekeeping. Forms smooth, slippery surfaces on floors, posing an accident risk.

**7.2. Conditions for safe storage, including any incompatibilities** Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep in air-tight containers- material is hygroscopic.  
Avoid dust formation. Guard against dust accumulation of this material.  
Store away from incompatible materials (see 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	Type	Value	Form
General dust	TWA	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.

##### United Kingdom

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	6 mg/m <sup>3</sup>	Inhalable dust.
		2.4 mg/m <sup>3</sup>	Respirable dust.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

#### Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
Amorphous silica (CAS 7631-86-9)	Industry	Inhalation	4 mg/m <sup>3</sup>	Respirable fraction.

**Predicted no effect concentrations (PNECs)** Not available.

### 8.2. Exposure controls

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

## SECTION 9: Physical and chemical properties

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

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

<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Insoluble
<b>Solubility (other)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.
<b>9.2. Other information</b>	
<b>Bulk density</b>	700.00 - 750.00 kg/m <sup>3</sup>
<b>Percent volatile</b>	0 % estimated

## SECTION 10: Stability and reactivity

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

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects. This product has no known adverse effect on human health. Dust may be slightly irritating to eyes and respiratory tract. Prolonged skin contact may cause skin irritation and/or dermatitis.
----------------------------	---

### Information on likely routes of exposure

<b>Inhalation</b>	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Dust or powder may irritate the skin.
<b>Eye contact</b>	Dust in the eyes will cause irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

<b>Symptoms</b>	None known. 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 7631-86-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg Occluded (dermal)
<i>Inhalation</i>		
LC0	Rat	>= 0.69 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg

Components	Species	Test results
Methyl Violet (2B) (CAS 8004-87-3)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	413 mg/kg

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

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met. Not irritating: OECD 404
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met. Dust in the eyes will cause irritation.
<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Skin sensitisation</b>	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Due to partial or complete lack of data the classification is not possible.
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Carcinogenicity</b>	Due to partial or complete lack of data the classification is not possible.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

<b>Reproductive toxicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Specific target organ toxicity - single exposure</b>	Due to partial or complete lack of data the classification is not possible.
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.
<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.
<b>Mixture versus substance information</b>	Not applicable.
<b>Other information</b>	This product has no known adverse effect on human health.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	This material is not expected to be harmful to aquatic life. Contains a substance which causes risk of hazardous effects to the environment.
-----------------------	---

Components	Species	Test results
Amorphous silica (CAS 7631-86-9)		
<b>Aquatic</b>		
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
Methyl Violet (2B) (CAS 8004-87-3)		
<b>Aquatic</b>		
Crustacea	LC50	Water flea (Daphnia magna) 420 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 0.047 mg/l, 96 hours

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

<b>12.2. Persistence and degradability</b>	The product contains inorganic compounds which are not biodegradable. The other components of the product are slowly biodegradable.
<b>12.3. Bioaccumulative potential</b>	Does not bioaccumulate.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not applicable. (inorganic substance)
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	Insoluble and thus presents a low mobility in most soils
<b>Mobility in general</b>	The product is immiscible with water and will sediment in water systems.
<b>12.5. Results of PBT and vPvB assessment</b>	Not applicable. 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.  
Components of this product are hazardous to aquatic life. Do not discharge into drains, water courses or onto the ground.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Residual waste** Material should be recycled if possible.  
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: 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.

## 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 to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

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

#### EU regulations

**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

Material name: SILICA GEL self-indicating, orange-green

1312 Version #: 03 Revision date: 19-July-2016 Issue date: 19-February-2014

**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 protection of the health and safety of workers from the risks related to chemical agents at work.**

Always applicable.

**Directive 94/33/EC on the protection of young people at work**

Not listed.

**Other regulations**

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. Prepared in accordance with Annex II of the REACH Regulation (EC) 1907/2006 as amended by Commission Regulation (EU) 2015/830), and with CLP Regulation (EC) 1272/2008

**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)	Yes
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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
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	Yes

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 method leading to the 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 written out in full under Sections 2 to 15**

H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.

**Revision information**

SECTION 8: Exposure controls/personal protection: Appropriate engineering controls  
SECTION 15: Regulatory information: Other regulations

**Training information**

Follow training instructions when handling this material.

The information in the sheet was written based on the best knowledge and experience currently available.

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 year.

Labshop 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.