SAFETY DATA SHEET

CRYSTALDRY FLOWER DRYING SILICA CRYSTALS



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

1.1. Product identifier

Name of the substance CRYSTALDRY FLOWER DRYING SILICA CRYSTALS

Identification number -

Registration number 01-2119379499-16-0124

Synonyms amorphous silicon dioxide * synthetic amorphous silica

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Version number 04

Revision date 28-April-2020 Supersedes date 28-April-2020

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

Identified usesDesiccant. 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

Easy Composit

nufacturer Easy Composites Ltd

Address Unit 39,

Park Hall Business Village Longton, Stoke-on-Trent

ST3 5XA

Country United Kingdom

 Telephone
 Tel: +44 (0)1782 454499

 e-mail
 Email: info@colorlord.com

1.4 Emergency telephone

number

+44 (0) 1782 454499 (office hours only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance 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 substance 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 substance 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.

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2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

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	-	
Classification: -					

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).

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 None known.

media

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

Move containers from fire area if you can do so without risk.

procedures 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

Use personal protective equipment.

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during

clean-up. 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. In case of spills, beware of slippery floors and surfaces.

As detailed in section for non-emergency personnel. Use personal protection recommended in For emergency responders 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 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.

Avoid prolonged exposure. Forms smooth, slippery surfaces on floors, posing an accident risk.

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.

Keep in air-tight containers- material is hygroscopic.

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	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 7631-86-9)	TWA	6 mg/m3	Inhalable 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	Туре	Route	Value	Form
Amorphous silica (CAS 7631-86-9)	Industry	Inhalation	4 mg/m3	Respirable fraction.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

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, such 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 and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

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 Powder. Granules

Beads

ColourWhite.OdourOdourless.Odour thresholdNot available.

pH > 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 explosive limits

Flammability limit - lower Not applicable

(%)

Flammability limit - upper Not app

(%)

Not applicable

Vapour pressureNot applicableVapour densityNot applicableRelative densityNot available.

Solubility(ies)

Solubility (water)
Solubility (other)
Not available.

Auto-ignition temperature
Not available.

Pecomposition 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 Hazardous polymerisation does not occur.

reactions

10.4. Conditions to avoidAvoid conditions which create dust. Contact with incompatible materials. Heat is evolved on

contact with water

None known.

10.5. Incompatible materials

10.6. Hazardous decomposition

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

no known adverse effect on human health.

Data shown in this section has been published in the substance(s) REACH dossier

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

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 Possible irritant effects. Dusts may irritate the respiratory tract, skin and eyes. None known.

11.1. Information on toxicological effects

Components	Species	Test results
Amorphous silica (CAS 7631-8	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/irritationBased on available data, the classification criteria are not met. Not irritating: OECD 404

Serious eye damage/eye

Dust in the eyes will cause irritation.

irritation

Respiratory sensitisationDue to partial or complete lack of data the classification is not possible.

Skin sensitisation 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.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Carcinogenicity 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.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

Not applicable.

Other information This product has no known adverse effect on human health.

SECTION 12: Ecological information

12.1. Toxicity Not expected to be harmful to aquatic organisms.

Components		Species	Test results
Amorphous silica (CAS 76	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

n-octanol/water (log Kow)

12.6. Other adverse effects

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 Not applicable.

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted and vPvB assessment

to environmental organisms.

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:

Based on available data, there is no evidence of significant toxicity of Synthetic Amorphous Silica

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 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.

This product is in compliance with Directive 2011/65/EU on the restriction of the use of certain

hazardous substances in electrical and electronics equipment (RoHS).

National regulations Follow national regulation for work with chemical agents.

15.2. Chemical safety

assessment

Chemical Safety Assessment has been carried out.

International Inventories

Country(s) or region	on In	ventory name	On inventory (yes/no)*
Australia	A	ustralian Inventory of Chemical Substances (AICS)	Yes
Canada	D	omestic Substances List (DSL)	Yes
Canada	N	on-Domestic Substances List (NDSL)	No
China	In	ventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	Е	uropean Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	Е	uropean List of Notified Chemical Substances (ELINCS)	No
Japan	In	ventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	E	xisting Chemicals List (ECL)	Yes
New Zealand	N	ew Zealand Inventory	Yes
Philippines		hilippine Inventory of Chemicals and Chemical Substances PICCS)	Yes
United States & Pu	erto Rico To	oxic 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 abbreviationsNot available.ReferencesNot available.Information on evaluationNot applicable.

method leading to the classification of mixture

None.

Full text of any H-statements not written out in full under Sections

2 to 15

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.

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

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