

1. Identification of the Product and Supplier

Product name: SIDISTAR ® XP320 ST69

Product application: Surface-modified additive to polymeric organic materials.

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Contact: <u>support.siliconproducts@elkem.com</u>

REACH registration number: 01-2119486866-17-0000

REACH and CLP helpdesk: REACH and CLP website:

https://echa.europa.eu/support/helpdesks/

Emergency Phone No.: not applicable for non-hazardous substances.

2. Hazards Identification

Classification of the substance: The product does not meet the criteria for hazard classification

according to Regulation (EC) No1272/2008 (CLP) and the UN Globally Harmonized System of Classification and Labelling of

Chemicals (GHS, 9th rev.).

Hazard pictogram: N/A (not applicable)
Signal word: N/A (not applicable)
Hazard statements: N/A (not applicable)
Precautionary statements: N/A (not applicable)

The product is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

3. Composition/Information on Ingredients

CHEMICAL NAME	CAS#	EINECS#	% w/w
Silicon Dioxide (amorphous silica fume)	69012-64-2	273-761-1	98
Proprietary silane, non-hazardous			2

The product meets the criteria as nanomaterial in accordance with Commission Recommendation 2011/696/EU. It is a nanoform in accordance with (EU) 2020/878.

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4. First Aid Measures

Inhalation: Remove exposed person from dusty area. Fresh air.

Skin contact: Wash contaminated skin with water and/or a mild detergent. Eye contact: Rinse eyes with water/saline solution. If discomfort persists, seek

medical advice.

Ingestion: Not applicable.

5. Fire Fighting Measures

The product is not combustible and there is no inherent risk of explosion.

Extinguishing media: Not applicable Depending on surrounding fire.

6. Accidental Release Measures

Avoid exposure to dust of the product. Released material should be collected in suitable containers.

7. Handling and Storage

Handling: Avoid dust generation. See section 8.

Storage: Keep away from hydrofluoric acid (HF). Not to be stored at temperatures near to

or below 0 °C.

8. Exposure Controls/Personal Protection

A) Occupational exposure controls:

Avoid inhalation of dust. Ensure good dust ventilation during use. Wear a particulate respirator according to EN 149 FFP 2S/3S during dust generating operations. Use protective gloves and eye protection. Facilities for eye flushing should be available.







Occupational Exposure Limits (ACGIH ¹⁾ , 2016):		ACGIH TLV				
Out atoms		_	TWA	_	ute STEL	Notations
Substance	[CAS No.]	ppm	mg/m ³	ppm	mg/m³	
PNOS ²⁾	-	-	10 ^(I) /3 ^(R)	-	-	-
Silica, crystalline (SiO ₂) Quarz*	[14808-60-7]	_	0.025 ^(R)	_		A2
, ,		-		-	-	· -
Cristobalite	* [14464-46-1]	-	$0.025^{(R)}$	-	-	A2

¹⁾ American Conference of Governmental Industrial Hygienists

The amount of respirable crystalline silica (quartz, cristobalite) in SIDISTAR® determined by X-ray diffraction is below 0.1 % and does not trigger hazard-classification.

²⁾ Particulates (Insoluble or Poorly Soluble) Not Otherwise Specified. Amorphous silica fume is considered to be PNOS. Specific TLVs for the individual substances have not been established or have been withdrawn, respectively.

⁽I) Inhalable fraction

⁽R) Respirable fraction

B) Environmental exposure controls

Target value and limit value for PM₁₀ and PM_{2.5} (Directive 2008/50/EC):

PM10Averaging periodLimit valuePM10One day $50 \mu g/m^3 ★$ PM10Calendar year $25 \mu g/m^3$ PM2.5Calendar year $15 \mu g/m^3$

★Not to be exceeded more than 30 times a calendar year.

9. Physical and Chemical Properties

Form: Ultrafine amorphous powder (respirable dust).

Dust forms agglomerates.

Colour: Grey, off-white Odour: Odourless Melting Point (°C): 1550-1570

Solubility (Water): Insoluble/Slightly soluble Solubility (Organic solvents): Insoluble/Slightly soluble

Specific Gravity (water =1): 2.2-2.3 Bulk density (kg/m³) approx.: 150-700 Specific surface (m²/g): 15-30

Particle size, mean (μ m): ≈ 0.15 (less than 0.1 % of primary particles > 45 μ m)

10. Stability and reactivity

Conditions to avoid: See below

Materials to avoid: Hydrofluoric acid (HF).

Hazardous Decomposition Product(s):

The product reacts with hydrofluoric acid (HF) forming toxic gas (SiF_A).

Heating the product above 1000 °C can result in the formation of crystalline SiO₂-modifications as cristobalite / tridymite which may cause pulmonary fibrosis (silicosis).

11. Toxicological Information

The product does not meet the criteria for hazard classification according to Regulation (EC) No1272/2008 (CLP) and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 9th rev.).

Acute effects:

INGESTION: Finely divided dust may cause mechanical irritation and dehydration of

mucous membranes.

INHALATION: Finely divided dust may cause mechanical irritation and dehydration of

mucous membranes.

SKIN CONTACT: Finely divided dust may cause mechanical irritation and dehydration. EYE CONTACT: Finely divided dust may cause mechanical irritation and dehydration.

Endocrine disrupting properties: Available data for the product have been considered against the criteria laid down in Regulations ((EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605) and found not to apply.

Chronic effects:

Inhalation of dust from the product is considered to entail minimal risk of pulmonary fibrosis (silicosis). However, chronic obstructive lung disease is suspected following long term exposure (years) for concentrations above recommended occupational exposure limits.

12. Ecological Information

The product is not characterised as dangerous for the environment.

MOBILITY: The product is not mobile under normal environmental conditions.

PERSISTENCE: Not relevant for inorganic substances.

BIOACCUMULATION: Not relevant.

ECOTOXICITY: The product does not meet the classification criteria for ecotoxicological

endpoints in accordance with Regulation (EC) 1272/2008 (CLP) and the UN Globally Harmonized System of Classification and Labelling of

Chemicals (GHS, 9th rev.).

Endocrine disrupting properties: Available data for the product have been considered against the criteria laid down in Regulations ((EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605) and found not to apply.

13. Disposal Considerations

The material should be recovered for recycling if possible.

This material is not classified as hazardous waste according to Commission Decisions 2000/532/EC and 2001/118/EC. Prior to disposal of large quantities of this material advice should be sought from the Environment Agency Office.

14. Transport Information

UN .

IMDG/IMO Not subject to classification
ADR/RID Not subject to classification
ICAO/IATA Not subject to classification

15. Regulatory Information

A chemical safety assessment (CSA) has been carried out for the product in accordance with Regulation (EC) 1907/2006 (REACH).

The text of this Product Safety Information is prepared in compliance with:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).
- UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 9th rev.).

16. Other Information

According to Chapter 1.5.2 of the UN Globally Harmonised System of classification and labelling of chemicals (GHS), Article 58 (2)(a), and Article 59(2)(b) of (EC) No 1272/2008 (CLP), which amends REACH article 31(1), safety data sheets (SDS) are only required for substances and mixtures that meet the harmonised criteria for physical, health or environmental hazards. Since this product does not meet these criteria, a SDS according to (EU) 2020/878 is not issued. In order to communicate relevant HSE-(health, safety and environmental-) information, this product safety information (PSI) is provided instead.

In accordance with REACH article 31(5), safety data sheets shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market. This obligation, however, only applies for hazard-classified products which require a formal SDS. Since this product is not hazard-classified, the product safety information (PSI) is, in accordance with current regulation, provided in English language only.

REACH article 31(7) requires relevant exposure scenarios from the Chemical Safety Report (CSR) to be annexed to the SDS. However, according to REACH Annex I, section 0. (Introduction), subsection 0.6. no 4 and 5, exposure scenarios are only required for hazard-classified substances or mixtures. Since this product is not hazard-classified according to CLP, there is no requirement for exposure scenarios.

and 5, exposure scenarios are only required for hazard-classified substances or mixtures. Since this product is not hazard-classified according to CLP, there is no requirement for exposure scenarios.

Rev 01: updated company contact information (email, website), section 1

Literature references are available upon request.

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