



1. Identification of the Product and Supplier

Product name:	SIDISTAR[®] MB F 21/22
Product application:	Fire retardant additive to polymeric organic materials.
Address/Phone No.:	Elkem ASA, Silicon Products P.O. Box 334 Skøyen N-0213 Oslo, Norway Telephone: + 47 22 45 01 00 https://www.elkem.com/silicon-products/
Contact:	support.siliconproducts@elkem.com
REACH registration number:	01-2119486866-17-0000 (silica fume) Polymers are exempted from REACH registration.
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 product:	The product does not meet the criteria for hazard classification in accordance with Regulation (EC) No1272/2008 (CLP) and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 9 th rev.).
Hazard pictogram:	N/A (not applicable)
Signal word:	N/A (not applicable)
H-phrases:	N/A (not applicable)
P-phrases:	N/A (not applicable)

3. Composition/Information on Ingredients

Constituents

CHEMICAL NAME	CAS #	EC #	% w/w
Silicon Dioxide (amorphous silica fume)	69012-64-2	273-767-1	50-60
Ethylene/N-butyl acrylate copolymer	25750-84-9	-	40-50

The product meets the criteria as a nanoform in accordance with Commission Recommendation 2011/696/EU.

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4. First Aid Measures

At room temperature the product is neither irritant nor does it give off hazardous vapours. The first aid measures listed below therefore apply to critical situations, e.g. fire, incorrect processing.

Inhalation:	In case of excessive inhalation of fumes move the person to fresh air. Call for medical help.
Skin contact:	After contact with the molten product, cool rapidly with cold water. Do not pull solidified product away from the skin. Seek immediate medical advice.
Eye contact:	Rinse eyes with water/saline solution. If discomfort persists, seek medical advice.
Ingestion:	Not applicable.

5. Fire Fighting Measures

Extinguishing media: Water haze, foam, chemical powder.
Unsuitable extinguishing media: Water jet

6. Accidental Release Measures

Released material should be collected in suitable containers.
Spilled product may lead to slippery surfaces.

7. Handling and Storage

When bringing the material to processing temperatures, gases might develop, forming:

- ethylene and alkenes of higher molecular weight.
- traces of formaldehyde and acryl aldehyde.
- traces of acids (formic acid, acetic acid).

Provide appropriate ventilation for such processing conditions.

Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules.

Requirements to be met by storerooms and containers:

- Take precautionary measures to prevent the formation of static electricity.
- Do not smoke.
- Ground equipment electrically.
- Open flames prohibited.

Protect from heat and direct sunlight. Store container in a well-ventilated place. Store under dry conditions.

8. Exposure Controls/Personal Protection

Ensure ventilation of work areas and extraction of dust or vapours likely to be given off during conversion operations.

A) Occupational exposure controls:

Avoid inhalation of vapours. Ensure good dust ventilation during use. Use protective gloves and eye protection. Facilities for eye flushing should be available.



Occupational Exposure Limits (ACGIH ¹, 2016):

Substance	[CAS No.]	8hr TWA		ACGIH TLV 15 minute STEL		Notations
		ppm	mg/m ³	ppm	mg/m ³	
PNOS ²	-	-	10 ^(I) /3 ^(R)	-	-	-

¹) American Conference of Governmental Industrial Hygienists

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

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

	Averaging period	Limit value
PM ₁₀	One day	50 µg/m ³ ★
PM ₁₀	Calendar year	25 µg/m ³
PM _{2,5}	Calendar year	15 µg/m ³

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

9. Physical and Chemical Properties

Form:	Pellets
Colour:	Grey
Odour:	Nearly odourless
Melting Point (°C):	50-140
Solubility (Water):	Insoluble
Specific Gravity (water =1):	1.3-1.5

10. Stability and reactivity

The product is stable when handled and stored under normal conditions.

Decomposes at temperatures above 360 °C.

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.).

When used and handled as advised, the product does not show harmful effects according to experience and the information provided.

Endocrine disrupting properties: 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.

12. Ecological Information

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.).

The product is not biodegradable.

Endocrine disrupting properties: 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.

13. Disposal Considerations

Reuse or recycle if possible.

Disposal through controlled incineration or at authorized landfills.

The product must be disposed of in accordance with official local regulations.

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 component silica fume 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) and subsequent amendments.
- 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
- UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 9th rev.)

The silica fume component is listed in the following international chemical inventories:

Europe	EINECS
USA	TSCA
Canada	DSL
Australia	AICS
New Zealand	NZIoC
Japan	MITI inventory (ENCS)
Korea	KECI
China	IECSC
Philippines	PICCS
Sweden	BASTA
Taiwan	NECSI

16. Other Information

According to Chapter 1.5.2 of the UN Globally Harmonized 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 in accordance with REACH article 32, 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.

Literature references are available upon request.

SIDISTAR® is a trademark of Elkem ASA.

Changes from revision 01 to 02: company info; logo, email and web address (section 1), GHS reference 9th ed., reference to EU 2020/878, assessment nanoform (section 3), assessment EDC properties (section 11 & 12)