

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 22.07.2024  
Product: **Starvis C 102 F**

Version: 3.0

(30858878/SDS\_GEN\_VN/EN)

Date of print: 11.10.2025

## 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
**Starvis C 102 F**

Use: Additive for cement industry

Manufacturer/supplier:  
BASF Vietnam Co. Ltd.  
Level 23, Deutsches Haus, 33 Le Duan,  
Sai Gon Ward, Ho Chi Minh City, Vietnam  
Telephone: +84 28 3824 3833  
Telefax number: +84 28 3824 3832  
E-mail address: minh-triet.thieu@basf.com

Emergency information:  
18001703 (Vietnam)  
Telefax number: +84 28 3824 3832  
International emergency number:  
Telephone: +49 180 2273-112

## 2. Hazard identification

Classification of the substance and mixture:  
No need for classification according to GHS criteria for this product.

Label elements and precautionary statement:

The product does not require a hazard warning label in accordance with GHS criteria.

Other hazards which do not result in classification:  
| The product is under certain conditions capable of dust explosion.

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### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: mixture

copolymer, synthetic, high molecular

#### Hazardous ingredients

acrylamide

Content (W/W): < 0.1 %  
CAS Number: 79-06-1

Acute Tox.: Cat. 3 (oral)  
Acute Tox.: Cat. 4 (Inhalation - mist)  
Acute Tox.: Cat. 4 (dermal)  
Skin Corr./Irrit.: Cat. 2  
Eye Dam./Irrit.: Cat. 2A  
Skin Sens.: Cat. 1B  
Muta.: Cat. 1B  
Carc.: Cat. 1B  
Repr.: Cat. 2 (fertility)  
STOT RE: Cat. 1  
Aquatic Acute: Cat. 3

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### 4. First-Aid Measures

General advice:

| Remove contaminated clothing.

If inhaled:

| If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

| Wash thoroughly with soap and water

On contact with eyes:

| Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

| Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting unless told to by a poison control center or doctor.

Note to physician:

| Symptoms: (Further) symptoms and / or effects are not known so far

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

Suitable extinguishing media:

| dry powder, foam

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Unsuitable extinguishing media for safety reasons:  
| carbon dioxide

Additional information:  
| Avoid whirling up the material/product because of the danger of dust explosion.

Specific hazards:  
| harmful vapours  
| Generation of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:  
Wear a self-contained breathing apparatus.

Further information:  
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## 6. Accidental Release Measures

Personal precautions:  
| Avoid dust formation. Use personal protective clothing.

Environmental precautions:  
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:  
For small amounts: Pick up with suitable appliance and dispose of. Dispose of contaminated material as prescribed. After cleaning flush away traces with water.  
For large amounts: Pick up with suitable appliance and dispose of. Dispose of absorbed material in accordance with regulations.  
Do not rinse with water. Avoid raising dust. After cleaning flush away traces with water.

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## 7. Handling and Storage

### Handling

Avoid dust formation. Wear suitable protective clothing and eye/face protection. Avoid inhalation of dusts/mists/vapours. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:  
| Avoid dust formation. Take precautionary measures against static discharges.

### Storage

Suitable materials for containers: High density polyethylene (HDPE), Paper/Fibreboard

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

## 8. Exposure controls and personal protection

### Components with occupational exposure limits

acrylamide, 79-06-1;

TWA value 0.03 mg/m<sup>3</sup> (ACGIHTLV), Inhalable fraction and vapor  
TWA value 0.03 mg/m<sup>3</sup> (OEL (VN))  
STEL value 0.2 mg/m<sup>3</sup> (OEL (VN))  
Skin Designation (ACGIHTLV), Inhalable fraction and vapor  
Danger of cutaneous absorption  
Skin Designation (ACGIHTLV), Inhalable fraction and vapor  
Danger of cutaneous absorption

### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

## 9. Physical and Chemical Properties

Form: granules  
Colour: white to slightly coloured  
Odour: characteristic  
Odour threshold: No applicable information available.

pH value: approx. 7 - 9.8  
(water, 1 %(m), 20 °C)

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Melting temperature:	The substance / product decomposes therefore not determined.	
boiling temperature:	Study scientifically not justified.	
Flash point:	not applicable	
Flammability (solid/gas):	not flammable	
Lower explosion limit:	250 g/m <sup>3</sup> not determined, By analogy with a product of similar composition	
Ignition temperature:	520 °C The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.	(BS EN 50281-2-1 Method B)
Thermal decomposition:	not determined	
Self ignition:	Data for powdery solid. not determined	Test type: Self-ignition at high temperatures. (Method: VDI 2263, sheet 1, 1.4.2 (May 1990))
Self heating ability:	Study does not need to be conducted.	
Minimum ignition energy:	> 10 J Inductivity: 1 mH Grain size distribution: < 63 µm with inductivity	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	The product has not been tested.	
Density:	No data available.	
Bulk density:	approx. 500 kg/m <sup>3</sup>	
Solubility in water:	soluble (20 °C)	
Miscibility with water:	(20 °C) soluble	
Hygroscopy:	hygroscopic	
Partitioning coefficient n-octanol/water (log Pow):	Study does not need to be conducted.	
Viscosity, dynamic:	not applicable	

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Solids content: > 91 %

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## 10. Stability and Reactivity

Conditions to avoid:  
See SDS section 7 - Handling and storage.

| Thermal decomposition: not determined

Substances to avoid:  
strong acids, strong bases, strong oxidizing agents, strong reducing agents

Corrosion to metals: Corrosive effects to metal are not anticipated.

Hazardous reactions:  
| Dust explosion hazard.

| Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:  
| The product is stable if stored and handled as prescribed/indicated.

Reactivity:  
| No hazardous reactions if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Routes of exposure

#### Acute oral toxicity

Experimental/calculated data:  
LD50rat (oral): > 5,000 mg/kg  
The product has not been tested. The statement has been derived from the properties of the individual components.

#### Acute inhalation toxicity

LC50 rat (by inhalation): 4 h  
not determined

#### Acute dermal toxicity

LD50 rat (dermal):  
not determined

#### Assessment of acute toxicity

Virtually nontoxic after a single ingestion. Based on available data, the classification criteria are not met.

#### Symptoms

| (Further) symptoms and / or effects are not known so far

## **Irritation**

Assessment of irritating effects:

No irritation is expected under intended use and appropriate handling. Based on available data, the classification criteria are not met.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

The product has not been tested. The statement has been derived from the properties of the individual components.

Serious eye damage/irritation rabbit: non-irritant

The product has not been tested. The statement has been derived from the properties of the individual components.

## **Respiratory/Skin sensitization**

Assessment of sensitization:

No sensitizing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Experimental/calculated data:

guinea pig: Non-sensitizing. (OECD Guideline 406)

The product has not been tested. The statement has been derived from the properties of the individual components.

## **Germ cell mutagenicity**

Assessment of mutagenicity:

Based on the ingredients, there is no suspicion of a mutagenic effect.

## **Carcinogenicity**

Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

## **Reproductive toxicity**

Assessment of reproduction toxicity:

Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

## **Developmental toxicity**

Assessment of teratogenicity:

Based on the ingredients, there is no suspicion of a teratogenic effect.

## **Specific target organ toxicity (single exposure)**

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:

No reliable data was available concerning repeated dose toxicity. Based on available data, the classification criteria are not met.

### **Aspiration hazard**

No aspiration hazard expected.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

Based on available data, the classification criteria are not met. There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish:

LC50 (96 h), Fish (other)  
not determined

Aquatic invertebrates:

LC50 (48 h), daphnia (other)  
not determined

Aquatic plants:

EC50 (72 h), algae (other)  
not determined

Microorganisms/Effect on activated sludge:

EC50 (0.5 h), bacteria (other)  
not determined

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

### **Mobility**

Assessment transport between environmental compartments:

No data available.

### **Bioaccumulation potential**

Assessment bioaccumulation potential:

No data available.



### Additional information

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

## 13. Disposal Considerations

Information on disposal regulations: Must comply with regulations on hazardous waste such as:

- Decree No. 08/2022/ND-CP of the Government: detailing a number of articles of the Law on Environmental Protection.

- Circular No. 02/2022/TT-BTNMT of the Ministry of Natural Resources and Environment: detailing a number of articles of the Law on Environmental Protection.

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

## 14. Transport Information

### Domestic transport:

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Sea transport

#### IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
	Marine pollutant: no
Special precautions for user	None known

### Air transport

#### IATA/ICAO

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	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

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## 15. Regulatory Information

### Other regulations

The SDS is composed based on the Global Harmonization Globally Harmonized System of Classification and Labeling of Chemicals and applicable local chemical regulations as following:

- The Chemical Law 06/2007/QH12 issued on 21/11/2007.
- The decree No. 113/2017/ND-CP specifying and providing guidelines for implementation of certain articles of the law on chemicals.
- The decree No. 82/2022/ND-CP Amendments to some articles of government's decree no.113/2017/ND-CP dated October 09, 2017 specifying and providing guidelines for implementation of certain articles of the law on chemicals.
- Circular 17/2022/TT-BCT Amendments to some articles of circular no. 32/2017/TT-BCT dated December 28, 2017 of the Minister Of Industry And Trade on elaboration and provision of guidelines for implementation of certain articles of the law on chemicals and the government's decree no. 113/2017/ ND-CP dated October 09, 2017 on elaboration and provision of guidelines for implementation of certain articles of the law on chemicals.
- The decree No. 17/2020/ND-CP Amendments to some articles of decrees related to necessary business conditions in fields under the management of the Ministry Of Industry and Trade.
- The decree No. 34/2024/ND-CP dated March 31st 2024 of the Government on the List of dangerous goods, transportation of dangerous goods by road motor vehicles and transportation of dangerous goods on inland waterways
- The Circular 32/2017/TT-BCT specifying and providing guidelines for implementation of certain articles of the law on chemicals and the government's decree no. 113/2017/ND-CP dated October 09, 2017 specifying and providing guidelines for implementation of certain articles of the law on chemicals.
- The decree No. 33/2024/ND-CP dated March 27th 2024 of the Government on implementing the convention on the prohibition of the development, production, stockpiling and use of chemical weapons and on their destruction

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## 16. Other Information

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Vertical lines in the left hand margin indicate an amendment from the previous version.

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