

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

Revision Date: 30.11.2020

Version: 4/en



Replaces version from: 24.11.2020

Print date: 30.11.2020

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

1.1 Product identifier

Commercial Product Name **FiGM Intumescent Graphite Mastic**

Unique Formulation Identifier (UFI) DS30-F04J-J00D-XD26

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

Relevant identified uses Sealant

Recommended restrictions None under normal processing. Observe technical data sheet.

1.3 Details of the supplier of the safety data sheet

Company designation fischerwerke GmbH & Co. KG
Klaus-Fischer-Straße 1
D-72178 Waldachtal
Telephone: +49(0)7443 12-0
FAX: +49(0)7443 12-4222
Email: info-sdb@fischer.de
Internet: www.fischer.de

Marketer Great Britain: Mrs Mirka Valovicova, fischer Fixing (UK) Ltd
Hithercroft Road
Wallingford, Oxfordshire, OX10 9AT
Telephone: +44 01491 827 920
FAX: +44 01491 827 950
Internet: www.fischer.co.uk

1.4 Emergency telephone number

Emergency telephone number +49(0)6132-84463 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Eye Irrit. 2; H319 Repr. 2; H361 Aquatic Chronic 3; H412

2.2 Label elements

Hazard pictogram



GHS07



GHS08

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

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Signal word	Warning
Hazardous component(s) to be indicated on label	Melamine
H-statement(s)	H319: Causes serious eye irritation. H361: Suspected of damaging fertility or the unborn child . H412: Harmful to aquatic life with long lasting effects.
P-statement(s)	P280: Wear protective gloves/protective clothing/eye protection/face protection. P201: Obtain special instructions before use. P308+P313: IF exposed or concerned: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention.
Further information	EUH208: Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

2.3 Other hazards

Health hazard	No information available.
Particular information pertaining specific risk for human / environment	No information available.
Indication of danger	No information available.
Hazard precautions	No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
Graphite	CAS No.: 7440-44-0 EC-No.: 231-955-3 REACH No.: 01-2119514421-54		10.0 - 30.0 % by weight
Aluminium hydroxide	CAS No.: 21645-51-2 EC-No.: 244-492-7		10.0 - 30.0 % by weight
Nonylphenol, propoxyliert	CAS No.: 9064-15-7	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 2; H411	< 3.0 % by weight
Melamine	CAS No.: 108-78-1 EC-No.: 203-615-4 REACH No.: 01-2119485947-16-xxxx	Repr. 2; H361	1.0 - 10.0 % by weight
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS No.: 55965-84-9 EC-No.: 611-341-5 Index-No.: 613-167-00-5	Acute Tox. 2; H330 Acute Tox. 2; H310 Acute Tox. 3; H301 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0.001 % by weight

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

Revision Date: 30.11.2020

Version: 4/en



Replaces version from: 24.11.2020

Print date: 30.11.2020

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	Take off immediately all contaminated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Wear personal protection equipment (refer to section 8).
If inhaled	Provide fresh air. In case of respiratory tract irritation, consult a physician.
In case of skin contact	After contact with skin, wash immediately with plenty of water and soap. Do NOT use solvents or thinners.
In case of eye contact	Remove contact lenses. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
If swallowed	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention If unconscious place in recovery position and seek medical advice.

Special medical treatment Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media spray mist, (water), Water spray jet, alcohol resistant foam, carbon dioxide, Extinguishing powder

Extinguishing media which must not be used for safety reasons Full water jet

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases Heating or fire can release toxic gas.
Fight fire with normal precautions from a reasonable distance.

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

Revision Date: 30.11.2020

Version: 4/en



Replaces version from: 24.11.2020

Print date: 30.11.2020

5.3 Advice for firefighters

Special protective equipment for firefighting

In case of fire: Wear self-contained breathing apparatus.
For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Additional information on fire-fighting

Suppress (knock down) gases/vapours/mists with a water spray jet.
Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

For non-emergency personnel
Accidental release measures:
Wear personal protection equipment (refer to section 8).
Remove all sources of ignition.
Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Allow stiffening. Take up mechanically.
Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Reference to other sections

Reference to other sections : 7 / 8 / 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Keep container tightly closed.
Hygiene measures: When using do not eat, drink or smoke. Wash hands before breaks and after work.
Take off contaminated clothing and wash it before reuse.

Advice on protection against fire and explosion

No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements

Keep/Store only in original container.
Keep container tightly closed and dry.

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

Revision Date: 30.11.2020

Version: 4/en



Replaces version from: 24.11.2020

Print date: 30.11.2020

	Store in accordance with local regulations.
Unsuitable materials for containers	Keep only in original container.
Hints on storage assembly	Keep away from food, drink and animal feedingstuffs.
German storage class	10 - 13
Recommended storage temperature	+5 - 25 °C

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Respiratory protection	In case of inadequate ventilation wear respiratory protection.
Hand protection	Health injuries are not known or expected under normal use. For prolonged or repeated contact use protective gloves.
Suitable material	Protective gloves complying with EN 374. Butyl caoutchouc (butyl rubber), CR (polychloroprene, chloroprene rubber), NBR (Nitrile rubber), Fluorinated rubber
Unsuitable material	PVC or rubber gloves are not recommended.
Material thickness	adjust to application and duration of use
Break through time	adjust to application and duration of use
Remarks	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Note	Replace when worn.
Eye protection	Wear closely fitting protective glasses in case of splashes. Safety glasses with side-shields conforming to EN166
Skin and body protection	Long sleeved clothing
Note	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
General protective and hygiene measures	Do not eat, drink or smoke when using this product. Avoid contact with the skin and the eyes. Wash hands and face before breaks and after work and take a shower if necessary. Keep away from food, drink and animal feedingstuffs. Use protective skin cream before handling the product.

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

Revision Date: 30.11.2020

Version: 4/en



Replaces version from: 24.11.2020

Print date: 30.11.2020

Information on environmental protection regulations	No special environmental measures are necessary. see section 6/7
Engineering measures	Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Paste
Colour	grey
Odour	characteristic
Odour threshold	not determined
pH	5 - 9
Melting point [°C] / Freezing point [°C]	No data available
Boiling point [°C]	No data available
Flash point [°C]	> 100
Evaporation rate [kg/(s*m ²)]	No data available
Flammability (solid, gas)	No data available
Explosion limits [Vol-%]	
Lower limit	No data available
Upper limit	No data available
Vapour pressure [kPa]	No data available
Vapour density	No data available
Density [g/cm ³]	1,3 - 1,4
Relative density	No data available
Solubility	No data available
Water solubility [g/l]	No data available
Solubility [g/l]	No data available
Partition coefficient n-octanol /water (log P O/W)	No data available
Autoinflammability	not auto-flammable
Decomposition temperature [°C]	No data available
Explosive properties	not explosive.
Oxidising properties	No

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

Revision Date: 30.11.2020

Version: 4/en



Replaces version from: 24.11.2020

Print date: 30.11.2020

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity No hazardous reaction when handled and stored according to provisions.
No decomposition if stored and applied as directed.

10.2 Chemical stability

Chemical stability Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3 Possibility of hazardous reactions

Hazardous reactions No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Conditions to avoid The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.5 Incompatible materials

Materials to avoid Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Oral toxicity [mg/kg]

Hazardous ingredients

Graphite			
Value	Test criterion	Test species	Source
> 2000	LD50	Rat	Company data

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
Value	Test criterion	Remarks	Source
> 5000	LD50	estimated	Company data

Dermal toxicity [mg/kg]

Hazardous ingredients

Melamine			
Value	Test criterion	Test species	Source
> 1000	LD50	Rabbit	Company data

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
Value	Test criterion	Remarks	Source

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

Revision Date: 30.11.2020

Version: 4/en



Replaces version from: 24.11.2020

Print date: 30.11.2020

> 5000	LD50	estimated	Company data
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Inhalative toxicity [mg/l]**Hazardous ingredients**

Graphite				
Value	Test criterion	Test species	Exposure duration	Source
> 2000	LC50	Rat	4 h	Company data

Melamine				
Value	Test criterion	Test species	Exposure duration	Source
> 5190	LC50	Rat	4 h	Company data

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)				
Value	Test criterion	Exposure duration	Source	
> 5	LC50	4 h	Company data	

Irritant effect on skin	no classification
Remarks	pH 5-9
Irritant effect on eyes	Causes serious eye irritation.
Remarks	pH 5-9
Irritant effect on the respiratory tract	Based on available data, the classification criteria are not met.
Sensitization	Based on available data, the classification criteria are not met.
Carcinogenic effects	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproduction toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure) [mg/kg]	
Remarks	Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure) [mg/kg]	
Specific effects	Based on available data, the classification criteria are not met.
Aspiration hazard	
Aspirations_less_hydrocarbons	Based on available data, the classification criteria are not met.

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

Revision Date: 30.11.2020

Version: 4/en



Replaces version from: 24.11.2020

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SECTION 12: Ecological information**12.1 Toxicity****Toxicity to fish [mg/l]****Hazardous ingredients**

Graphite			
Value	Test criterion	Test species	Source
> 100	LC50	Brachydanio rerio (zebra-fish)	Company data

Melamine		
Value	Test species	Source
> 3000	Oncorhynchus mykiss (Rainbow trout)	Company data

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)				
Value	Test criterion	Test species	Exposure duration	Source
0,22	EC50	Oncorhynchus mykiss (rainbow trout)	96 h	Company data

Toxicity to daphnia [mg/l]**Hazardous ingredients**

Graphite			
Value	Test criterion	Test species	Source
> 100	EC50	Daphnia magna (Big water flea)	Company data

Melamine		
Value	Test species	Source
200	Daphnia magna (Big water flea)	Company data

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)				
Value	Test criterion	Test species	Exposure duration	Source
0,12	EC50	Daphnia magna (Water flea)	48 h	Company data

Toxicity to algae [mg/l]**Hazardous ingredients**

Graphite				
Value	Test criterion	Test species	Exposure duration	Source
> 100	EC50	Pseudokirchneriella subcapitata	72 h	Company data

Melamine		
Value	Test species	Source

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

Revision Date: 30.11.2020

Version: 4/en



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325	Pseudokirchneriella subcapitata	Company data
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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)				
Value	Test criterion	Test species	Exposure duration	Source
0,048	EC50	Pseudokirchneriella subcapitata	72 h	Company data

12.2 Persistence and degradability

Biodegradability

Hazardous ingredients

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
Value	Source
Readily biodegradable.	Company data

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations

Do not allow to enter into surface water or drains.
Dispose of waste according to applicable legislation.
Empty remaining contents.
Empty packaging: Where possible recycling is preferred to disposal or incineration.
Product: Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

Waste Code

200000 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
080409 - waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	Not applicable.	Not applicable.	Not applicable.
14.2 Description of the goods	No dangerous good according to ADR	No dangerous good according to IMDG	No dangerous good according to IATA
14.3 Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.
14.4 Packaging group	Not applicable.	Not applicable.	Not applicable.
14.5 Environmental hazards	Not applicable.	Not applicable.	Not applicable.
UN proper shipping name		Non dangerous good	Non dangerous good

14.6 Special precautions for user

Precautions

No special measures are necessary.

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

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14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

SECTION 15: Regulatory information

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

Decopaint regulation not relevant

Carcinogenic hazardous substance as per Annex II GefStoffV No

15.2 Chemical safety assessment

Safety assessment For this preparation a chemical safety assessment has been carried out. This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

*Additional regulations This Safety Data Sheet is prepared according to Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 16: Other information

Modifications since last version Modifications of the previous version are denoted with an asterisk (*).

Relevant H-phrases
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H310: Fatal in contact with skin.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H330: Fatal if inhaled.
H361: Suspected of damaging fertility or the unborn child .
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.
EUH208: Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Wording of the hazard classes
Acute Tox.: Acute toxicity
Eye Dam.: Serious eye damage

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FiGM Intumescent Graphite Mastic

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Version: 4/en



Replaces version from: 24.11.2020

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Aquatic Chronic: Hazardous to the aquatic environment

Repr.: Reproductive toxicity

Aquatic Acute: Hazardous to the aquatic environment

Eye Irrit.: Serious eye irritation

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification	Evaluation
Eye Irrit. 2; H319	Calculated
Repr. 2; H361	Calculated
Aquatic Chronic 3; H412	Calculated

Recommended restrictions

None under normal processing. Observe technical data sheet.

Modifications of the previous version are denoted with an asterisk (*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.