



MATERIAL SAFETY DATA SHEET

FIRESEAL - FIRE CEMENT



Information Data Sheet

VIKY 100B - BLACK SEALANT FOR HIGH TEMPERATURE.

Information Data Sheet (art. 32 REACH Rul.) dated 1/7/2018, version 4.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Mixture identification:

Trade name:

BLACK SEALANT FOR HIGH TEMPERATURE.

Trade code:

100B

1.2 Relevant identified uses of the substance/mixture and uses advised against: sealant for the heating sector.

1.3 Details of the supplier of the safety data sheet

Company:

Biffi Rag. Antonio di Biffi Carlo - Via Cavour, 78 - 20026 Novate Milanese (MI) ITALY

Biffi Rag. Antonio di Biffi Carlo - Tel: +39.02-35.45.410 - Fax n.: +39.02-35.48.2301.4

Competent person responsible for the safety data sheet:

info@viky.it

1.4 Emergency telephone number

Phone: +39 02-35.45.410 Office time from Monday to Friday: 8.30/12.13 AM – 1.30/5.30PM.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The mixture is not classified as dangerous according to EC Regulation 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2 Label elements

Symbols:

None.

Hazard statements:

None.

Precautionary statements:

None.

Special Provisions:

None.

2.3 Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Identification of the substance

Trade code: None.

3.2 Mixtures

N.A.

MATERIAL SAFETY DATA SHEET

FIRESEAL - FIRE CEMENT



4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:

None

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3 Advice for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand.

6.3 Methods and material for containment and cleaning up

Wash with plenty of water.

6.4 Reference to other sections

See also section 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

MATERIAL SAFETY DATA SHEET

FIRESEAL - FIRE CEMENT



Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3 Specific end use(s)

None in particular

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

None.

DNEL Exposure Limit Values

Talc - CAS: 14807-96-6

INHALATION Exp. workers

Systemic effects – Long-term: 2,16 mg/m³ (repeated dose toxicity)

Systemic effects – Acute/short-term: 2,16 mg/m³ (repeated dose toxicity)

Local effects – Long-term: 3,6 mg/m³ (repeated dose toxicity)

Local effects – Acute/short-term: 3,6 mg/m³ (repeated dose toxicity)

DERMAL Exp. workers

Systemic effects – Long-term: 43,2 mg/kg/day (effect on fertility)

Local effects – Long-term: 4,54 mg/cm² (acute toxicity)

INHALATION Exp. General population

Systemic effects – Long-term: 1,08 mg/m³ (repeated dose toxicity)

Systemic effects – Acute/short-term: 1,08 mg/m³ (repeated dose toxicity)

Local effects – Long-term: 1,8 mg/m³ (repeated dose toxicity)

Local effects – Acute/short-term: 1,8 mg/m³ (repeated dose toxicity)

DERMAL Exp. General population

Systemic effects – Long-term: 21,6 mg/kg/day (effect on fertility)

Local effects – Long-term: 2,27 mg/cm² (acute toxicity)

ORAL Exp. General population

Systemic effects – Long-term: 160 mg/Kg/day (developmental toxicity/teratogenicity)

Systemic effects – Acute/short-term: 160 mg/Kg/day (developmental toxicity/teratogenicity)

Graphit - CAS: 7782-42-5

INHALATION Exp. workers

Local effects – Long-term: 1,2 mg/m³ (repeated dose toxicity)

INHALATION Exp. General population

Local effects – Long-term: 300 µg/m³ (repeated dose toxicity)

ORAL Exp. General population

Systemic effects – Long-term: 813 mg/Kg/day (repeated dose toxicity)

PNEC Exposure Limit Values

Talc - CAS: 14807-96-6

Hazard for Aquatic Organisms

Freshwater	597.97 mg/L
Intermittent releases (freshwater)	597.97 mg/L
Marine water	141.26 mg/L
Intermittent releases (marine water)	141.26 mg/L
Sewage treatment plant (STP)	No data: aquatic toxicity unlikely
Sediment (freshwater)	31.33 mg/kg sediment dw

MATERIAL SAFETY DATA SHEET

FIRESEAL - FIRE CEMENT



Sediment (marine water)

3.13 mg/kg sediment dw

8.2 Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Protective apron.

Protection for hands:

Gloves with long cuffs.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None.

Environmental exposure controls:

None.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	viscous mass, black	internal	--
Odour:	odourless	smell	--
Odour threshold:	Not Relevant	--	--
pH:	10.0	internal	--
Melting point / freezing point:	not available	--	--
Initial boiling point and boiling range:	not available	--	--
Flash point:	Not Relevant	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	Not Relevant	--	--
Upper/lower flammability or explosive limits:	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	--
Vapour density:	Not Relevant	--	--
Relative density:	1.750 Kg/L	internal	--
Solubility in water:	partial	internal	--
Solubility in oil:	not soluble	internal	--
Partition coefficient (n-octanol/water):	no available	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	Not Relevant	--	--
Viscosity:	Not Relevant	--	--
Explosive properties:	Not Relevant	--	--
Oxidizing properties:	Not Relevant	--	--

9.2. Other information

No other information.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

MATERIAL SAFETY DATA SHEET

FIRESEAL - FIRE CEMENT



- 10.2 Chemical stability
Stable under normal conditions.
- 10.3 Possibility of hazardous reactions
None.
- 10.4 Conditions to avoid:
Stable under normal conditions.
- 10.5 Incompatible materials:
None in particular.
- 10.6 Hazardous decomposition products:
None.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological information of the substance:

100B – BLACK SEALANT FOR HIGH TEMPERATURE

- a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
- b) skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met
- c) serious eye damage/irritation
Not classified
Based on available data, the classification criteria are not met
- d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
- e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
- f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
- g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
- h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
- j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Talc - CAS: 14807-96-6

oral LD₅₀ (mg/kg) 3870 - 5000 (RAT);
inhalation LC₅₀ 2,1 mg/L air /4h (RAT)
inhalation LC₅₀ 156 mg/L air /3h (CAT)
dermal LD₅₀ 2000 mg/kg (RAT)

Graphit - CAS: 7782-42-5

oral LD₅₀ (mg/kg) 2000 (RAT);
inhalation LC₅₀ 2 mg/L air /4h (RAT)

MATERIAL SAFETY DATA SHEET

FIRESEAL - FIRE CEMENT



Titanium dioxide - CAS: 13463-67-7

oral LD₅₀ (mg/kg) 2000 - 25000 (RAT);

oral LD₅₀ (mg/kg) 5000 (MOUSE)

inhalation LC₅₀ (RAT) 3,43 – 6,82 mg/L air /4h.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.

100B – BLACK SEALANT FOR HIGH TEMPERATURE

Not classified

Based on available data, the classification criteria are not met.

Ecological information of the main substances found in the mixture:

Talc - CAS: 14807-96-6

- SHORT-TERM TOXICITY pesci

LC₅₀ (4 days) 89,581 - 110 g/L

- LONG -TERM TOXICITY pesci

LC₅₀ (30 days) 1,413 – 5,98 g/L

- SHORT-TERM TOXICITY invertebrati acquatici

EC₅₀ (48 h) 36,812 g/L

- TOSSICITA' ACQUATICA Alghe e Cianobatteri

EC₅₀ (4 days) 7,203 g/L

NOEC (30 days) 918,089 mg/L

Graphit - CAS: 7782-42-5

- SHORT-TERM TOXICITY pesci

LC₅₀ (4 days) 100 mg/L

NOEC (4 days) 100 mg/L

- SHORT-TERM TOXICITY invertebrati acquatici

EC₅₀ (48 h) 100 mg/L

NOEC (48 h) 100 mg/L

LOEC (48 h) 100 mg/L

- TOSSICITA' ACQUATICA Alghe e Cianobatteri

EC₅₀ (72 h) 100 mg/L

NOEC (72 h) 100 mg/L

LOEC (72 h) 100 mg/L

- TOSSICITA' ACQUATICA microrganismi

EC₅₀ (3h) 1,012 g/L

Titanium dioxide - CAS: 13463-67-7

- SHORT-TERM TOXICITY pesci

LC₅₀ (14 days) 870 - 1100 µg/L

NOEC (14 days) 870 - 1100 µg/L

- SHORT-TERM TOXICITY invertebrati acquatici

LC₅₀ (48 h) 500 mg/L

- LONG -TERM TOXICITY invertebrati acquatici

NOEC (28 days) 100 mg/L

NOEC (21 days) 1.72 - 5 mg/L

LOEC (21 days) 5 mg/L

- TOSSICITA' ACQUATICA Alghe e Cianobatteri

EC₅₀ (72 h) 100 mg/L

NOEC (32 days) 1 mg/L

NOEC (72 h) 100 mg/L

- TOSSICITA' ACQUATICA microrganismi

EC₅₀ (3h) 1 g/L

MATERIAL SAFETY DATA SHEET

FIRESEAL - FIRE CEMENT



NOEC (3h) 1 g/L

LOEC (3h) 1 g/L

12.2 Persistence and degradability

None.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

vPvB Substances: None. - PBT Substances: None.

12.6 Other adverse effects

None.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

14.1 UN number:

Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name:

N.A.

14.3 Transport hazard class(es):

N.A.

14.4 Packing Group:

N.A.

14.5 Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6 Special Precautions for User

N.A.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No

15. REGULATORY INFORMATION

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

Dir. 98/24/EU (Risks related to chemical agents at work)

Dir. 2000/39/EU (Occupational exposure limit values)

Regulation (EU) n. 1907/2006 (REACH)

Regulation (EU) n. 1272/2008 (CLP)

Regulation (EU) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 1221/2015 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

MATERIAL SAFETY DATA SHEET

FIRESEAL - FIRE CEMENT



Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: none.

Substances in Candidate List (Art. 59 REACH): based on available data, the product does not contain SVHC substances as a percentage more than 0.1%.

Where applicable, refer to the following regulatory provisions:

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EU) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II): N.A.

15.2. Chemical safety assessment: No.

16. OTHER INFORMATION

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day.



MATERIAL SAFETY DATA SHEET

FIRESEAL - FIRE CEMENT



WGK: (ACGIH Standard).
German Water Hazard Class.

Changes from previous version.

Changes were made to the following sections: 1/8/11/12/15.