



## MATERIAL SAFETY DATA SHEET

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1 Identification of the product:  
 Sealant for high temperatures – Black  
 Trade Name: FIRESEAL  
 Supplier: Excel Industries, Dublin

2 Composition / Characteristics of Ingredients  
 2.1 Chemical Characteristics: Sodium silicate mixed with inert minerals.  
 It Does Not Contain Asbestos  
 2.2 Gas Number / Description / %: 30% Na<sub>2</sub>O SiO<sub>2</sub> Gas no. 13870-30-9  
 Other Ingredients: 70% Inert Minerals  
 2.3 Hazardous Components: Na<sub>2</sub>O Sodium Monoxide in a 4.6% / 5% solution  
 Sodium silicate: Xi Irritant  
 R36 Irritant of the skin  
 R38 Irritant of the eyes

3 HAZARD DATA: Liquid sodium silicate is classified as hazardous under article 2 of law 29/05/74 no. 256 and amendments thereof, whenever it contains Na<sub>2</sub>O expressed as anhydrous preparation in a concentration higher than 5%  
 PARTICULAR RISKS FOR MEN AND WORK PLACE: Irritant product, use proper personal protective equipment (gloves and spectacles).

4 EMERGENCY AND FIRST AID PROCEDURES  
 4.1 AFTER SKIN CONTACT: Rinse thoroughly with water and mild soap  
 4.2 AFTER EYE CONTACT: Rinse immediately with plenty of water, summon an ophthalmologist.  
 4.3 AFTER INGESTION: Rinse mouth with water, drink milk, seek medical advice.

5 FIRE AND EXPLOSION HAZARD DATA  
 5.1 FIRE-FIGHTING SUITABLE MATERIALS: Unflammable and incombustible substances  
 5.2 HAZARDOUS COMBUSTION PRODUCTS: none

6 MESURES TO BE TAKEN IN CASE OF UNINTENTIONAL RELEASE  
 6.1 PERSON-RELATED MEASURES: See Section 8.  
 6.2 ENVIRONMENTAL SAFEGUARDS: don't dissolve the product in the environment.  
 6.3 SPILL OR LEAK MEASURES: the product can be removed by washing with water.

7	HANDLING AND STORAGE	SAFE HANDLING INSTRUCTIONS: none
7.1		
7.2	INSTRUCTIONS FOR FIRE AND EXPLOSION PROTECTION:	
7.3	STORAGE AREAS AND CONTAINERS:	Store at ambient temperatures in a sheltered area away from sources of heat.
7.4	INFORMATION ON STORAGE IN STANDARD WAREHOUSES:	at a temperature higher than 0 deg. C.
7.5	CLASSIFICATION ACCORDING TO REGULATIONS REGARDING FLAMMABLE LIQUIDS:	Unflammable.
8	EXPOSURE LIMITATIONS AND SPECIAL PROTECTION INFORMATION:	
8.1	PERSONAL PROTECTION:	In case of contact, use safety spectacles, garments and gloves resistant to chemical agents, and/or protective creams. Avoid skin and eye contact. Do not eat or smoke with dirty hands.
8.2	INGREDIENTS OF THE PRODUCT WITH CRITICAL LEVELS WHICH REQUIRE PRECAUTIONS IN THE WORK PLACE:	not classified.
8.3	FURTHER INFORMATION	
8.4	HAND PROTECTION:	gloves
8.5	EYE PROTECTION:	spectacles
9	PHYSICAL AND CHEMICAL PROPERTIES	
9.1	APPEARANCE:	creamy (when the product has not hardened)
9.2	SPECIFIC WEIGHT (gr./ml):	1.8
9.3	APPLICATION TEMPERATURE:	from + 5 deg. C to + 35 deg. C
9.4	WORKING TEMPERATURE:	from - 20 deg. C to + 1200 deg. C
9.5	PRODUCT CLASSIFIED AS REI 180;	certificate no. CSI 0803RF
9.6	SHRINKAGE:	approx. 35%
9.7	COLOUR:	black
9.8	ODOUR:	none
9.8	BOILING POINT:	102/103 deg. C
9.9	FLASH POINT:	unflammable
9.10	FLAMMABILITY (SOLID, GASEOUS):	unflammable
9.11	SPONTANEOUS COMBUSTION:	no
9.12	EXPLOSIVE PROPERTIES:	no
9.13	SOLUBILITY IN WATER:	soluble
9.14	SOLVENT CONTENT:	
9.15	SOLID CONTENT:	inert minerals
10	STABILITY AND REACTIVITY	
10.1	STABILITY (HEAT RESISTANCE, LIGHT STABILITY, ETC.):	the product has no specific reactivity.
10.2	HAZARDOUS REACTIONS:	none
10.3	HAZARDOUS DECOMPOSITION PRODUCTS:	none
11	TOXICOLOGICAL DATA:	irritant properties.
11.1	SKIN:	frequent or prolonged contact may cause irritants or dermatitis.

11.2	EYES: contact with the eyes may cause inflammatory conditions. R/38
11.3	INGESTION: the ingestion of the product may cause damages to the mucosae of the pit of the stomach and the esophagus.
12	ECOLOGICAL DATA
12.1	GENERAL INFORMATION: observe ecological procedures avoiding to dissolve the product in the environment.
13	NOTES ON WASTE DISPOSAL
13.1	RECOMMENDATIONS FOR THE PRODUCT: collect and dispose of waste products according to national and EU regulations in force.
13.2	RECOMMENDATIONS FOR PACKAGING: see above
14	NOTES ON TRANSPORT
14.1	ROAD TRANSPORT: no precaution is required
14.2	SEA TRANSPORT: as above
14.3	AIR TRANSPORT: as above
15	NOTES ON APPLICABLE REGULATIONS
15.1	CLASSIFICATION OF THE PRODUCT: PRODUCT CLASSIFIED AS REI 180 (certificate no. CSI 0803 RF).
15.2	HAZARD MARK: Xi - irritant
15.3	R PHASES: R36 irritant of the eyes
15.4	S PHASES: S2 keep away from the reach of children S24 avoid contact with the skin S25 avoid contact with the eyes S28 in case of contact with the skin rinse immediately and abundantly with water S26 in case of contact with the eyes rinse immediately and abundantly with water and seek medical advice
15.4	NATIONAL REGULATIONS CLASSIFICATION PER VBF: not required
16	FURTHER INFORMATION Typical use of the product: fast-curing, odourless and fire-proof sealing compound for boilers, fireplaces, stoves, chimneys, firebricks, fire-stop walls and joints, etc.

All data presented herein has been compiled to the best of our current knowledge, without any guarantee. Users are advised to adopt such safety precautions as may be necessary.