SAFETY DATA SHEET (SDS)

Fiberglass Gasket Kit

Note: This document combines the SDS for fiberglass gasket and the SDS for Gasket Glue

SECTION 1 CHEMICAL AND COMPANY IDENTIFICATION

Product Identifier: Fiberglass Gasket – All Products
Product Code(s): Various
Identified Uses: Recommended For: Thermal Gasketing
Limitations: Temperatures to 1000º F/538ºC.

Name and address of the supplier of the SDS:
Kel Kem Ltd.
1333 Cornwall Road
Oakville, Ontario, Canada
L6J 7T5
905-829-5888
Emergency Telephone: (24 hours) Canutec (613) 996-6666 (Collect)

SECTION 2 HAZARDS IDENTIFICATION

Construction: Braided jacket of fiberglass yarns over a core of twisted fiberglass rope.

POTENTIAL HEALTH
EFFECTS Eye Contact: None
during normal usage
Skin Contact: Prolonged skin contact may cause irritation to skin on sensitive individuals
Inhalation: Unlikely
Medical conditions generally aggravated by exposure: Any condition generally aggravated by mechanical irritant in air or on skin.
Carcinogenicity: No known carcinogens
IARC Monographs? N/A
Health Hazards (Acute & Chronic) Prolonged skin contact may cause irritation to skin on sensitive individuals
PSA: The products listed in Section-1 may be provided with an Acrylate Pressure Sensitive Adhesive (PSA) applied, along with a release paper. There are no known hazardous components associated with the PSA provided. There may be slight smoking and a characteristic odor if the PSA is heated to a point where decomposition occurs; however, no adverse health effects are anticipated. The components of the PSA are in compliance with the chemical notification requirements of TSCA.

SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components (Specific Chemical Identity) Common Name	OSHA PEL	ACGIH TLV	Other limits Recommended	(Optional)
Fiberous glass #CAS 65997-17-3	5mg/	10	N	100

SECTION 4 FIRST AID MEASURES

Signs and Symptoms of exposure: Fibers may cause mechanical irritation to the eyes and skin. No significant inhalation hazards have been identified. If fibers are generated and ventilation is inadequate, use NIOSH/MSHA APPROVED RESPIRATION.

Inhalation: Unlikely

Eyes: Flush with running water for 15 minutes

Ingestion: possible irritation of upper respiratory tract

Skin: Wash hands with soap and water after handling.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point:	Will not flash
Upper Flammable Limit (UFL):	Not Applicable
Lower Flammable Limit (LFL):	Not Applicable
Auto-ignition Temperature:	Not Determined
Unusual Fire and Explosion Hazards	Incinerating can generate airborne fibers which may cause electrical malfunctions
Special Fire Fighting Procedures:	None
Extinguishing Media:	C02, dry chemical

SECTION 6 ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released of spilled: No special precautions are required.

Dispose of according to applicable local, state and federal regulations.

SECTION 7 HANDLING AND STORAGE

Handling:
Personnel involved with handling this product should be wearing appropriate personal protective equipment as outlined in section 8.

Storage:
Store in a dry area

Other Precautions: None known

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Control Measures

Ventilation: Ambient

Personal Protective Equipment

Eyes and Face: Safety Glasses

Skin: Gloves are recommended during handling.

Respiratory: None

EXPOSURE GUIDELINES:
None established

SECTION 9 PYHSICAL AND CHEMICAL PROPERTIES

Appearance: White
Odor:
Negligible odor **Solubility in water:** Insoluble **Boiling Point:** N/A
Specific Gravity 1.4
Melting Point
N/A **Vapor Pressure**
N/A **Vapor Density**
N/A **Evaporation Rate** N/A

SECTION 10 STABILITY AND REACTIVITY

Stability: This material is stable

Hazardous Polymerization: Will not occur **Incompatibility (Material to Avoid)** N/A **Hazardous Decomposition Products:** N/A

SECTION 11 TOXICOLOGICAL INFORMATION

No toxicity data is available

SECTION 12 ECOLOGICAL INFORMATION

No ecological information is available on this product

SECTION 13 DISPOSAL INFORMATION

Dispose of in accordance with local, state, and federal regulations. Land fill is normally recommended.

SECTION 14 TRANSPORTATION INFORMATION

DOT – Not Regulated

SECTION 15 REGULATORY INFORMATION

EU regulations

Authorizations under Title VII:	Not Applicable
Restrictions under Title VIII:	None
Other EU regulations:	None

SECTION 16 OTHER INFORMATION

This Safety Data Sheet is prepared to safeguard the health of workers and to comply with the requirements of 29CFR
1910.1200.

DISCLAIMER:
Notice to the Reader: The information is provided in good faith and is correct to the best of Kel Kem Ltd.'s knowledge as of the date hereof and is designed to assist our customers; however Kel Kem Ltd. makes no representation as to its completeness or accuracy. Final determination of suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Kel Kem Ltd. disclaims all expressed or implied warranties or representations.

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	**Gasket Cement**
Product Code(s):	KK0149, KKW1041
Alternative names	Sodium silicate solution (1.6<MR<=2.6)
CAS No.	1344-09-8
EINECS No.	215-687-4

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

Identified use(s)	Stove gasket adhesive
Uses advised against	None known.

1.3 Details of the supplier of the safety data sheet

Company Identification	Kel Kem Ltd. 1333 Cornwall Road Oakville Ontario, Canada L6J 7T5
Telephone:	905-829-5888

1.4 Emergency telephone number

Emergency Phone No.	(24 hours) Canutec (613) 996-6666 (Collect)

SECTION 2:HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification	Skin Irrit. 2 Eye Dam. 1
Hazards summary	Alkaline. Risk of serious damage to eyes. Irritating to skin.

2.2 Label elements

Hazard pictogram(s)

Signal word(s)	Danger
Hazard statement(s)	H315: Causes skin irritation. H318: Causes serious eye damage.
Precautionary statement(s)	P262: Do not get in eyes, on skin, or on clothing. P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338: IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards Dries to form glass film, which can easily cut skin. Spilled material is very slippery. Can etch glass if not promptly removed.

SECTION 3:COMPOSITION/INFORMATIONON INGREDIENTS

Regulation (EC) No. 1272/2008 (CLP)

Ingredient(s)	%W/W	CAS No.	EINECS No. / REACH Registration	Hazard symbol(s) and hazard statement(s)
Silicic acid, sodium salt (1.6<MR<=2.6)	47.1	1344-09-8	215-687-4 01-2119448725-31	H315 : Skin Irrit. 2 ; H318 : Eye Dam. 1 ; H335 : STOT SE 3 ;
Water	52.9	7732-18-5	231-791-2	

SECTION 4:FIRST AIDMEASURES

4.1 Description of first aid measures

Eye Contact — Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

Skin Contact — Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.

Inhalation — Remove patient from exposure, keep warm and at rest. Obtain medical attention.

Ingestion — Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed — Alkaline.
Risk of serious damage to eyes.
Irritating to skin.
The toxicity of sodium silicate is dependent on the silica to alkali ratio and on the pH.

4.3 Indication of any immediate medical attention and special treatment needed — Obtain immediate medical attention.

SECTION 5 : FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media — Compatible with all standard fire fighting techniques.

Unsuitable extinguishing Media — None known.

5.2 Special hazards arising from the substance or mixture — Not applicable. Aqueous solution. Non-combustible.

5.3 Advice for fire-fighters — None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Wear suitable protective clothing. Wear eye/face protection. See Section: 8.2
6.2 Environmental precautions	Do not allow to enter drains, sewers or watercourses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.
6.3 Methods and materials for containment and cleaning up	Caution - spillages may be slippery. Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery.
6.4 Reference to other sections	See Also Section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Avoid contact with eyes, skin and clothing. Avoid generation of mist. Provide adequate ventilation. Emergency shower and eye wash facilities should be readily available. See Also Section 8
7.2 Conditions for safe storage, including any incompatibilities	Storage temperature 0-95º C. Loading temperature 45-95 º C. Do not allow material to freeze. Provide an adequate bund wall. Unsuitable containers: Aluminium See Also Section 10.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits
Silicic acid, sodium salt	No Occupational Exposure Limit assigned. An exposure limit of 2 mg/m3 (15 min TWA) is recommended by analogy with sodium hydroxide (UK EH40).

8.2 Exposure controls	Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.
8.2.1 Appropriate engineering controls	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.
8.2.2 Personal Protection	
Respiratory protection	Respiratory protection not normally required. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.
Eye/face protection	Chemical goggles (EN 166).
Skin protection	Wear suitable protective clothing and gloves. Plastic or rubber gloves. For example EN374-3, level 6 breakthrough time (>480min). Wear suitable overalls. For example EN ISO 13982 (dust), EN 14605 (liquid splashes).
8.2.3 Environmental Exposure Controls	The primary hazard of sodium silicate is the alkalinity. Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid . Almost colourless. White or translucent.
Odour	Odourless. (musty)
Odour Threshold (ppm)	Not applicable.
pH (Value)	Strongly alkaline. 11-13
Freezing Point (°C)	Not applicable.
Melting Point (°C)	Not applicable.
Boiling Point (°C)	100
Flash Point (°C) [Closed cup]	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Not applicable.
Vapour Pressure (mm Hg)	Not applicable.
Vapour Density (Air=1)	No data.
Density (g/ml)	No data.
Solubility (Water)	Soluble.
Solubility (Other)	No data.
Partition Coefficient	No data.
Auto Ignition Point (°C)	Not applicable.
Decomposition Temperature (°C)	Not applicable.
Viscosity (mPa. s)	Not applicable.
Explosive properties	Not applicable.
Oxidising Properties	Not applicable.
9.2 Other information	No data.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity See Section: 10.3

10.2 Chemical stability Stable

10.3 Possibility of hazardous reactions When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.

10.4 Conditions to avoid See Section: 10.3

10.5 Incompatible materials See Section: 1

10.6 Hazardous decomposition product(s) None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

All symptoms of acute toxicity are due to high alkalinity. Material will cause irritation. Oral LD50 (rat) 3400 mg/kg bw

Inhalation	Mist is irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity. Inhalation LC50 (rat) >2.06 g/m³
Skin Contact	Material will cause irritation. Dermal LD50 (rat) >5000 mg/kg bw
Eye Contact	Material will cause severe irritation. Risk of serious damage to eyes.
Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation	Irritating to eyes. Risk of serious damage to eyes.
Sensitisation	Not sensitising.
Mutagenicity	No evidence of genotoxicity. In vitro/in vivo negative.

No structural alerts. IARC, NTP, OSHA, ACGIH do not list this product as known or suspected carcinogen.

Reproductive toxicity No evidence of reproductive toxicity or developmental toxicity.
STOT - single exposure Not classified
STOT - repeated exposure Not classified. NOAEL oral (rat) >159 mg/kg bw/d
Aspiration hazard Not classified
Other information

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Fish (Brachydanio rerio) LC50 (96 hour) 1108 mg/l
Aquatic invertebrates: (Daphnia magna) EC50 (48 hour) 1700 mg/l
12.2 Persistence and degradability Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.
12.3 Bioaccumulative potential Inorganic. The substance has no potential for bioaccumulation.
12.4 Mobility in soil Not applicable.
12.5 Results of PBT and vPvB Assessment Not classified as PBT or vPvB.
12.6 Other adverse effects The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Disposal should be in accordance with local, state or national legislation. Waste material is classified as a RCRA Hazardous waste if it exhibits the corrosive characteristic (pH greater than or equal to 12.5) Dispose of this material and its container to hazardous or special waste collection point. Discharge of this product to sewage treatment works is dependent on local regulations with regard to pH controls.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number Not applicable.
14.2 Proper Shipping Name Not applicable.
14.3 Transport hazard class(es) Not applicable.
14.4 Packing group Not applicable.
14.5 Environmental hazards Not classified as a Marine Pollutant.
14.6 Special precautions for user Unsuitable containers: Aluminium
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
TSCA Inventory Status: Reported/Included.
AICS Inventory Status: Reported/Included. DSL/NDSL
Inventory Status: Reported/Included.
SARA TITLE III: This material is not a listed Toxic Chemical subject to the reporting requirements of SARA Title III §313 and 40 C.F.R. Part 372. Hazard Categories under SARA Title III §§311/312: Acute.
German Water Hazard Classification VwVwS: Product ID number 1314, WGK class 1 (low hazard to water). 2,0,0

SECTION 16: OTHER INFORMATION

This SDS was last reviewed: 02/2015
The following sections contain revisions or new statements: None.

GHS Classification Skin Irrit. 2
Eye Dam. 1
Signal word(s) Danger

Hazard pictogram(s)
Hazard statement(s) H315: Causes skin irritation.
H318: Causes serious eye damage. Precautionary
statement(s) P262: Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off
immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

GLOSSARY
H315: Causes skin irritation.
H318: Causes serious eye damage. H335: May
cause respiratory irritation.
STOT SE 3 : Specific target organ toxicity — single exposure Category 3
R41: Risk of serious damage to eyes. R38:
Irritating to skin.
R37/38: Irritating to respiratory system and skin.
DNEL : Derived No Effect Level
PNEC : Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
EC Classification : According to Directive 67/548/EEC & Directive 1999/45/EC

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