SAFETY DATA SHEET

<u>SECTION1:IDENTIFICATIONOFTHESUBSTANCE/MIXTURE</u> ANDOFTHECOMPANY/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)

SECTION2:HAZARDSIDENTIFICATION

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.

Gasket Cement

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.

<u>SECTION3:COMPOSITION/INFORMATIONONINGREDIENTS</u>

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

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

SECTION4:FIRSTAIDMEASURES

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.

Do not induce vomiting. Wash out mouth with water and give Ingestion

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.

SECTION5:FIRE-FIGHTINGMEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Unsuitable extinguishing Media Compatible with all standard fire fighting techniques.

None known.

5.2 Special hazards arising from

Not applicable. Aqueous solution. Non-combustible.

the substance or mixture

5.3 Advice for fire-fighters None.

SECTION6:ACCIDENTALRELEASEMEASURES

Gasket Cement

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.

SECTION7:HANDLINGANDSTORAGE

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 0-95° C. Loading temperature 45-95 ° C.

Do not allow material to freeze. Provide an adequate bund wall. Unsuitable containers: Aluminium

See Also Section 10.

SECTION8: EXPOSURECONTROLS/PERSONALPROTECTION

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 controlsWear protective equipment to comply with good occupational

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.

hygiene practice. Do not eat, drink or smoke at the work place.

8.2.2 Personal Protection

Respiratory protection Respirato

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.

SECTION9: 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

Gasket Cement

Freezing Point (°C)

Melting Point (°C)

Not applicable.

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. No data. Vapour Density (Air=1) No data. Density (g/ml) Solubility (Water) Soluble. Solubility (Other) No data. Partition Coefficient No data.

Auto Ignition Point (°C)
Decomposition Temperature (°C)
Viscosity (mPa. s)
Explosive properties
Oxidising Properties

9.2 Other information

Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.

SECTION10:STABILITYANDREACTIVITY

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

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 avoidSee Section: 10.310.5 Incompatible materialsSee Section: 10.310.6 Hazardous decompositionNone known.

product(s)

SECTION11:TOXICOLOGICALINFORMATION

11.1 Information on toxicological effects

Acute toxicity

Skin Contact

Eye Contact

Ingestion 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 Material will cause irritation. Dermal LD50 (rat) >5000 mg/kg bw Material will cause severe irritation. Risk of serious damage to

eves.

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.

Carcinogenicity 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

SECTION12:ECOLOGICALINFORMATION

12.1 Toxicity Fish (Brachydanio rerio) LC50 (96 hour) 1108 mg/l

Not applicable.

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

Inorganic. The substance has no potential for bioaccumulation.

silica.

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB

12.6 Other adverse effects

assessment

Not classified as PBT or vPvB.

Not classified as I bi of VI Vb.

The alkalinity of this material will have a local effect on

ecosystems sensitive to changes in pH.

SECTION13:DISPOSALCONSIDERATIONS

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.

SECTION14:TRANSPORTINFORMATION

14.1 UN number Not applicable.

14.2 Proper Shipping NameNot applicable. **14.3 Transport hazard class(es)**Not applicable.

14.4 Packing group Not applicable.

14.5 Environmental hazardsNot classified as a Marine Pollutant. **14.6 Special precautions for user**Unsuitable containers: Aluminium

14.6 Special precautions for user Unsultable containers: Aluminium **14.7 Transport in bulk according** Not applicable.

to Annex II of MARPOL73/78 and

the IBC Code

SECTION15:REGULATORYINFORMATION

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

SECTION16:OTHERINFORMATION

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.

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water/shower.

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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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