

**1. Identification of the Substance/Preparation and of the Company/Undertaking**

**Product identifier**

**Product Name** CAFCO-BOARD<sup>®</sup> Adhesive

**Other means of identification**

**Product Code(s)** MSW2044  
**Product Technology** Water based adhesive  
**Document** Board Adhesive

None  
 Adhesives and/or sealants. FOR INDUSTRIAL USE ONLY.  
 Restrictions on use: Do not use this product for any use other than intended

**Manufacturer's Address**

Key Polymer Corporation  
 17 Shepard Street  
 Lawrence, MA 01843, USA

**Company Phone Number**

**Emergency Telephone**

**Supplier's Address**

ISOLATEK International  
 41 Furnace Street  
 Stanhope, NJ 07874, USA  
 Toll Free 1-800-631-9600  
 Chemtrec 1-800-424-9300 (24 Hours)

**2. Hazards Identification**

**Classification**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS). This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 1B

**Emergency Overview**

**DANGER**

**Hazard statements**

Causes severe skin burns and eye damage  
 May damage fertility or the unborn child



**Appearance** Viscous White, to, Grey

**Physical state** Liquid

**Odor** Odorless



Brand

**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Do not breathe dust, fumes, or vapors  
 Wash face, hands and any exposed skin thoroughly after handling

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a POISON CENTER or doctor/physician  
 IF SWALLOWED: rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local/regional/international regulations

**Hazards Not Otherwise Classified (HNOC)**

**Other Information**

May be harmful if swallowed  
 68.84% of the mixture consists of ingredient(s) of unknown toxicity

**3. Composition/Information on Ingredients**

**Substance**

**Chemical Family** Water Based Adhesive  
**Chemical nature** Aqueous alkaline solution.

Chemical name	CAS No.	Weight-%	Trade secret
Kaolin	1332-58-7	30 - 40	*
Sodium silicate	1344-09-8	20 - 30	*
Titanium dioxide	13463-67-7	1 - 5	*
Silicon dioxide	14808-60-7	0.1 - 0.9	*
Sodium tetraborate decahydrate	1303-96-4	0.1 - 0.5	*

Kaolin is a naturally occurring substance that poses extremely low respirable dust hazard when in a liquid.

\* The exact percentage (concentration) of composition may have been withheld as a trade secret.

**4. First Aid Measures**

**Description of first aid measures**

**General advice** Use first aid treatment according to the nature of the injury. For further assistance, contact your local Poison Control Center. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).



<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. If eye irritation persists: Get medical advice/attention.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Treat symptomatically. Get medical attention.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. Fire-Fighting Measures

**Suitable Extinguishing Media**

Dry chemical, CO<sub>2</sub>, sand, earth, water spray or regular foam

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

Keep cool with water. Sealed containers may rupture when heated.

**Hazardous combustion products**

Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See Section 10 Hazardous Decomposition Products for additional information.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Extremely slippery when spilled.

**For Emergency Responders** Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional Ecological Information.



**Methods and material for containment and cleaning up**

- Methods for containment** Prevent further leakage or spillage if safe to do so.
- Methods for cleaning up** Pick up and transfer to properly labeled containers.
- Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. Handling and Storage**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

- Storage Conditions** Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Minimize contact with air to reduce contamination with mold, fungus or other organisms which could cause decomposition or spoilage. Keep from freezing.
- Incompatible materials** Do not store in aluminum containers or use aluminum fittings or transfer lines. Strong oxidizing agents. Strong acids. Strong bases.

**8. Exposure Controls/Personal Protection**

**Control parameters**

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Kaolin 1332-58-7	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine, including engineered nanoscale
Silicon dioxide 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter	TWA: 50 µg/m <sup>3</sup> TWA: 50 µg/m <sup>3</sup> excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust : (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Sodium tetraborate decahydrate 1303-96-4	STEL: 6 mg/m <sup>3</sup> inhalable particulate matter TWA: 2 mg/m <sup>3</sup> inhalable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

**Appropriate engineering controls**

- Engineering controls** Showers  
Eyewash stations  
Ventilation systems



**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and body protection</b>	Wear protective gloves and protective clothing.
<b>Respiratory protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Use personal protective equipment as required.

**9. Physical and Chemical Properties****Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Odorless
<b>Appearance</b>	Viscous	<b>Odor threshold</b>	N/A
<b>Color</b>	White to Grey		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	12.5	
<b>Melting point / freezing point</b>	0 °C	
<b>Boiling point / boiling range</b>	> 100 °C	
<b>Flash point</b>	Not flammable	
<b>Evaporation rate</b>	Faster than n-butyl acetate	
<b>Flammability (solid, gas)</b>	N/A	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	N/A	
<b>Lower flammability limit:</b>	N/A	
<b>Vapor pressure</b>	N/A	
<b>Vapor density</b>	Heavier than air	
<b>Relative density</b>	1.6	
<b>Water solubility</b>	Dispersible	
<b>Solubility in other solvents</b>	N/A	
<b>Partition coefficient</b>	N/A	
<b>Autoignition temperature</b>	N/A	
<b>Decomposition temperature</b>	N/A	
<b>Kinematic viscosity</b>	N/A	
<b>Dynamic viscosity</b>	N/A	
<b>Explosive properties</b>	Not an explosive	
<b>Oxidizing properties</b>	N/A	

**Other Information**

<b>Softening point</b>	N/A
<b>Molecular weight</b>	N/A
<b>VOC Content (%)</b>	N/A
<b>Liquid Density</b>	13.4 pounds/gallon
<b>Bulk density</b>	N/A

**10. Stability and Reactivity****Reactivity**

No data available



**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**Conditions to avoid**

Extremes of temperature and direct sunlight. Incompatible materials.

**Incompatible materials**

Do not store in aluminum containers or use aluminum fittings or transfer lines. Strong oxidizing agents. Strong acids. Strong bases.

**Hazardous decomposition products**

Carbon oxides. May emit toxic fumes under fire conditions. Hydrocarbons.

**11. Toxicological Information**

**Information on likely routes of exposure**

<b>Product Information</b>	Harmful by skin contact The product has not been tested
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	May cause burns. Severely irritating to eyes.
<b>Skin contact</b>	Avoid contact with skin. May cause burns.
<b>Ingestion</b>	Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Kaolin 1332-58-7	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rat )	-
Sodium silicate 1344-09-8	= 1960 mg/kg ( Rat )	> 4640 mg/kg ( Rabbit )	-
Titanium dioxide 13463-67-7	> 10000 mg/kg ( Rat )	-	-
Sodium tetraborate decahydrate 1303-96-4	= 3493 mg/kg ( Rat ) = 2660 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	> 2 mg/m³ ( Rat ) 4 h

**Information on toxicological effects**

N/A.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Causes burns.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes.
<b>Irritation</b>	Irritating to eyes and skin.
<b>Corrosivity</b>	Causes burns.
<b>Sensitization</b>	N/A.
<b>Germ cell mutagenicity</b>	N/A.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen. Titanium Dioxide (CAS 13463-67-7) is a naturally occurring substance that poses very low respirable carcinogen risk when encapsulated in a polymeric liquid. If sanding or grinding finished product, wear appropriate personal protective equipment for respirable dust hazards. Silicon Dioxide (CAS 14808-60-7) is a naturally occurring substance that poses low respirable carcinogen risk when encapsulated in a polymeric liquid. If sanding or grinding finished product, wear appropriate personal protective equipment for respirable dust hazards.

Chemical name	ACGIH	IARC	NTP	OSHA
Titanium dioxide 13463-67-7		Group 2B		X
Silicon dioxide 14808-60-7	A2	Group 1	Known	X



Sodium tetraborate decahydrate 1303-96-4		Group 2A		X
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**ACGIH (American Conference of Governmental Industrial Hygienists)**  
 A2 - Suspected Human Carcinogen  
**IARC (International Agency for Research on Cancer)**  
 Group 1 - Carcinogenic to Humans  
 Group 2A - Probably Carcinogenic to Humans  
 Group 2B - Possibly Carcinogenic to Humans  
**NTP (National Toxicology Program)**  
 Known - Known Carcinogen  
**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**  
 X - Present

**Reproductive toxicity** Contains a known or suspected reproductive toxin. May cause harm to the unborn child.  
**STOT - single exposure** N/A.  
**STOT - repeated exposure** N/A.  
**Aspiration hazard** N/A.

**Numerical measures of toxicity - Product Information**

**Unknown acute toxicity** 68.84% of the mixture consists of ingredient(s) of unknown toxicity  
**The following values are calculated based on chapter 3.1 of the GHS document**  
**ATEmix (oral)** 4,527.09 mg/kg  
**ATEmix (dermal)** 7,486.49 mg/kg

**12. Ecological Information**

**Ecotoxicity**

N/A  
 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium silicate 1344-09-8		3185: 96 h Brachydanio rerio mg/L LC50 semi-static 301 - 478: 96 h Lepomis macrochirus mg/L LC50	216: 96 h Daphnia magna mg/L EC50

**Persistence and degradability**

N/A

**Other adverse effects**

N/A

**13. Disposal Considerations**

**Waste treatment methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

Chemical name	California Hazardous Waste Status
Sodium tetraborate decahydrate 1303-96-4	Toxic

**14. Transport Information**

**DOT** Not regulated

**ICAO (air)** Not regulated



<b><u>IATA</u></b>	Not regulated
<b><u>IMDG</u></b>	Not regulated

**15. Regulatory Information**

**International Inventories**

**TSCA** All components of this product are either exempt or included on the TSCA Inventory in compliance with the Toxic Substances Control Act.

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*  
*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

The following chemicals may be contained in this product in de minimis amounts not required for listing in section 3. However, these chemicals do appear on some state Right-to-Know (RTK) and/or other hazardous substance lists. Please check your state's listings for more information.

**California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Titanium dioxide - 13463-67-7	Carcinogen
Silicon dioxide - 14808-60-7	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Kaolin 1332-58-7	X	X	X
Titanium dioxide 13463-67-7	X	X	X





Silicon dioxide 14808-60-7	X	X	X
Sodium tetraborate decahydrate 1303-96-4	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. Other Information**

<b>NFPA</b>	Health hazards 3	Flammability 0	Instability 0	Physical and chemical properties -
<b>HMIS</b>	Health hazards 3	Flammability 0	Physical hazards 0	Personal Protection X

Prepared By Key Polymer Corp Compliance  
 Issuing Date 06-Jan-2015  
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**Revision Note**

N/A

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**

