

BBC Biochemical MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: Kera Soft	Code: 1038, 1039, 1040, 1043, 1044
Supplier: BBC Biochemical	MSDS#: Kera Soft
Synonym: None.	Validation Date: 2-20-09
Trade Name: None.	Print Date: 2-20-09
Material Uses:	Responsible Name: Dr. B
Manufacturer: BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477

Section 2. Composition and Information on Ingredients

Name	CAS#	% by Weight	Exposure Limits
1) Formaldehyde	50-00-0	Trade Secret	0.75 ppm
2) Ethyl Alcohol	64-17-5		1000 ppm
3) Potassium Hydroxide	1310-58-3		2 mg/m3 Ceiling
4) Water	7732-18-5		
5) Select Buffers			

Section 3. Hazards Identification

Physical State and Appearance	Colorless liquid with a pungent odor; may become cloudy or precipitous on standing especially in the cold.
Emergency Overview	Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed.
Routes of Entry	Not available.
Potential Acute Health Effects	<p>Eyes May cause irritation with redness, itching, pain, blurred vision and mild lacrimation.</p> <p>Skin Vapors or solutions may cause smarting, white discoloration, roughness, hardness, anesthesia and first degree burns.</p> <p>Inhalation</p> <p>Ingestion</p>
Potential Chronic Health Effects	Repeated ingestion of small amounts of formaldehyde may cause gastrointestinal irritation, vomiting and dizziness.
Medical Conditions Aggravated by Overexposure	
Overexposure/Signs/Symptoms	

Section 4. First Aid Measures

Eye Contact	Wash eyes immediately with large amounts of water, occasionally lifting upper & lower lids until no evidence of chemical remains. Continue irrigating with Saline until Ph has returned to normal. Cover with Sterile bandages. Get medical attention immediately.
Skin Contact	Wash area thoroughly with copious amounts of water. Remove contaminated clothing and clean before wearing again.
Inhalation	May cause irritation to nose and throat, may cause difficulty breathing & a burning sensation
Ingestion	If swallowed, immediately give two glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting, seek medical attention.
Notes to Physician	Remove from exposure area to fresh air immediately. Perform artificial respiration. Keep warm and at rest. Treat symptomatically and supportively. Get medical attention immediately. Qualified medical personnel should consider administering oxygen.

Section 5. Fire Fighting Measures

Flammability of the Product	Not available.
Auto-ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence Of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to the flames until well after the fire is out. Stay away from the ends of the tanks. For massive fire in cargo areas, use unmanned hose holder or monitor nozzles; If this is impossible withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. Isolate for ½ mile in all directions if tank or rail car or tank truck is involved in fire . Extinguish only if flow can be stopped; use flooding amounts of water as a fog. Solid streams may be ineffective. Cool containers with flooding amounts of water. Apply from as far a distance as possible. Avoid breathing vapors, keep upwind.
Fire Fighting Media and Instructions	Carbon Dioxide, dry chemical powder or appropriate foam
Protective Clothing (Fire)	
Special Remarks on Fire Hazards	Thermal decomposition produces highly toxic fumes. Use water spray to cool fire exposed containers. Wear self contained breathing apparatus and proper clothing to prevent contact with skin and clothing.
Special Remarks on Explosion Hazards	

Section 6. Accidental Release Measures

Small Spill and Leak	Absorb spill with inert material, then place in a chemical waste container. Ventilate and wash spill site. Dispose of in a manner consistent with federal and local law.
Large Spill and Leak	

Section 7, Handling and Storage

Handling	Store in a cool dry well ventilated area out of direct sunlight. Keep away from heat and flame. Do not get in eyes, on skin or on clothing.
Storage	Store away from incompatible substances.

Section 8. Exposure Controls / Personal Protection

Engineering Controls	
Personal Protection	
Eyes	Goggles and face shield
Body	Wear appropriate clothing to prevent skin exposure
Respiratory	
Hands	NIOSH Approved Gloves
Feet	
Personal Protection in Case of a Large Spill	
Product Name	Exposure Limits
1)	
2)	
3)	
Consult Local authorities before acceptable exposure limits.	

Section 9. Physical and Chemical Properties

Physical State and Appearance	Colorless liquid with a pungent odor; may become cloudy or precipitous on standing, especially in the cold.	Odor: Not available.
Molecular Weight	Not applicable.	Taste: Not available.
Molecular Formula	Not applicable.	Color: Not available.
pH (1%/Water)	Not applicable.	
Boiling/Condensation Point	Not applicable.	
Melting/Freezing Point	Not applicable	
Critical Temperature	Not applicable.	
Specific Gravity	Not applicable.	
Vapor Pressure	Not applicable.	

Vapor Density	Not applicable.
Volatility	Not applicable.
Odor Threshold	Not applicable.
Evaporation Rate	Not applicable.
VOC	Not available.
Viscosity	Not available.
Ionicity (in water)	Not available.
Dispersion Properties	Not available.
Solubility	Soluble in water
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions of Instability	Incompatible materials, acids, metals.
Incompatibility with Various Substances	Strong oxidizing agents, strong acids.
Hazardous Decomposition Products	Irritating and toxic fumes and gases, oxides of potassium.
Hazardous Polymerization	Will Not Occur

Section 11. Toxicological Information

Toxicity to Animals	LD50: CAS# 1310-58-3: Draize test, rabbit, skin: 50 mg/24H Severe; Oral, rat: LD50 = 273 mg/kg; CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg; LC50: Not available.
Chronic Effects on Humans	
Other Toxic Effects on Humans	
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Fish: Mosquito Fish: LC50 = 80.0 mg/L; 24 Hr.; Unspecified
BODS and COD	Not available.
Biodegradable/OEDC	Not available.
Mobility	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on The Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Information	Not available.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Potassium Hydroxide Solution; Hazard Class 8; UN 1814; Packing Group II
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	Potassium Hydroxide Solution; Hazard Class 8; UN 1814; Packing Group II
ADR/RID Classification	ADR (Europe) Information not available.
IMO/IMDG Classification	IMDG Information not available.

ICAO/IATA Classification See IATA Regulations, Potassium Hydroxide Solution; Hazard Class 8; UN 1814; Packing Group II

Section 15. Other Information

Label requirements

Hazardous Material Information System (U.S.A.)	Health	3	National Fire Protection Association (U.S.A.)	
	Fire Hazard	2		
	Reactivity	0		
	Personal Protection			

References

Other Special Considerations

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.