

MATERIAL SAFETY DATA SHEET

MSDS Name: Grabber Professional Drywall Adhesive
Revision Date: 02/19/2009
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SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Grabber Green Products Professional Drywall Adhesive mixture
CAS Number:
Address: 20 West Main Street Court
Alpine, Utah 84004
Company Identification: Franklin International
2020 Bruck Street
Columbus, Ohio 43207
Contact: Franklin Technical Services
Telephone/Fax: (800) 8774583 (614) 445-1493
Emergency Phone (24 hour): Franklin Security (614) 445-1300
Chemtrec (24 hour): (800) 424-9300
Chemtrec International: (703) 527-3887
Chemical family: Adhesive
Product type: solvent free
Product Use: construction adhesive
Product Code: 7272
Division: Construction Adhesives & Sealants

SECTION 2 – HAZARDS IDENTIFICATION

Physical state : Liquid. [Paste.]

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency overview : WARNING!
CAUSES SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION.
May be harmful if swallowed. Irritating to skin. Moderately irritating to eyes. Slightly irritating to the respiratory system. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Routes of entry : Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation : Slightly irritating to the respiratory system. Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

Ingestion : Harmful if swallowed.

Skin : Irritating to skin. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Eyes : Moderately irritating to eyes. This product may irritate eyes upon contact.

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

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SECTION 2 – HAZARDS IDENTIFICATION

- Mutagenicity** : No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.
Target organs : Contains material which may cause damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Ingestion** : No specific data.
- Skin** : Adverse symptoms may include the following:
irritation
redness
- Eyes** : Adverse symptoms may include the following:
irritation
watering
redness
- Medical conditions aggravated by over-exposure** : None known.

See toxicological information (section 11)

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	%
ethanediol	107-21-1	1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 – FIRST AID MEASURES

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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SECTION 5 – FIRE-FIGHTING MEASURES

- Flammability of the product** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
 - Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Small spill** : Stop leak if without risk. Move containers from spill area. Dispose of via a licensed waste disposal contractor. Absorb with an inert material.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7 – HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Exposure limits
ethanediol	OSHA PEL 1989 (United States, 3/1989). CEIL: 50 ppm CEIL: 125 mg/m ³ ACGIH TLV (United States, 1/2008). C: 100 mg/m ³ Form: Aerosol

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid. [Paste.]
- Flash point:** Closed cup: >93.333°C (>200°F) [Setaflash.]
- Color** : Beige.
- pH** : 7
- Boiling/condensation point** : 100°C (212°F)
- Relative density** : 1.42
- Volatility** : 26% (w/w)
- VOC (less water, less exempt solvents)** : 3 g/l

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SECTION 10 – STABILITY AND REACTIVITY

- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : No specific data.
- Incompatibility** : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 – TOXCOLOGICAL INFORMATION

Acute toxicity

Product/ingredient nameR	esult	Species	Dose	Exposure
ethanediol	LD50 DermalR	abbit9	530 uL/kg	-
	LD50	Rat5	010 mg/kg	-
	Intraperitoneal			
	LD50 Intravenous	Rat3	260 mg/kg	-
	LD50 Oral	Rat4	700 mg/kg	-
	LD50	Rat2	800 mg/kg	-
	Subcutaneous			
	LD50 Unreported	Rat	13 gm/kg	-
	LDLo Intravenous	Rat2	800 mg/kg	-
	LDLo	Rat3	300 mg/kg	-
	Intramuscular			
	TDLo OralR	at	1110 mg/kg	-
	TDLo OralR	at	5000 mg/kg	-
	TDLo OralR	at	120 mg/kg	-
	TDLo OralR	at	1000 mg/kg	-
	TDLo	Rat3	000 mg/kg	-
Subcutaneous				

Chronic toxicity

No known significant effects or critical hazards.

Irritation/Corrosion

Conclusion/Summary

- Skin** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Eyes** : This product may irritate eyes upon contact.
- Respiratory** : Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

Sensitizer

No known significant effects or critical hazards.

Carcinogenicity

Classification

Product/ingredient nameA	CGIHE	IARC	PA	NIOSH	NTP	OSHA
ethanediol	A4	--		--		-

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

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SECTION 11 – TOXICOLOGICAL INFORMATION

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
ethanediol	-	Acute LC50 >18500 mg/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	-	Acute LC50 41 to 47 ml/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 0.7 g	96 hours
	-	Acute LC50 16 to 18 ml/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 1.1 g	96 hours
	-	Acute LC50 27540 mg/L Fresh water	Fish - Bluegill - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) - 0.85 g	96 hours
	-	Acute LC50 22600000 to 26500000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 13900000 to 16600000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 13140000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <=24 hours	48 hours
	-	Acute LC50 10500000 to 12700000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 >10000000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	-	Acute LC50 >10000000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 10000000 to 12300000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 8050000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - <=7 days	96 hours
	-	Acute LC50 6900000 to 8800000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 >100000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours
	-	Acute LC50 1000000000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 hours

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SECTION 12 – ECOLOGICAL INFORMATION

-A	cute LC50 53000000 to 56000000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - FRY - 10 to 15 days - 9.5 mm - 11.6 mg	96 hours
-A	cute LC50 25500000 to 29800000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
-A	cute LC50 49000000 to 60000000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 30 to 35 days - 14.9 mm - 76.8 mg	96 hours
-C	hronic NOEC 6090000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - <=7 days	96 hours
-C	hronic NOEC 24000000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <=24 hours	48 hours
-C	hronic NOEC 11610000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <=24 hours	48 hours
-C	hronic NOEC 39140000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - <=7 days	96 hours

Biodegradability

No known significant effects or critical hazards.

Other adverse effects : No known significant effects or critical hazards.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 14 – TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	--	--			
TDG Classification	Not regulated.	--	-			-
Mexico Classification	Not regulated.	--		--		

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SECTION 14 – TRANSPORT INFORMATION

ADR/RID Class	Not regulated.	--		-		-
IMDG Class	Not regulated.	--		-		-
IATA-DGR Class	Not regulated.	-	--			-

PG* : Packing group

SECTION 15 – REGULATORY INFORMATION

United States

HCS Classification : Irritating material

U.S. Federal regulations : **United States inventory (TSCA 8b)**: All components are listed or exempted.
TSCA precursor chemical list: 2-diethylaminoethanol

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: ethanediol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	: ethanediol	107-21-1	1 - 5
Supplier notification	: ethanediol	107-21-1	1 - 5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations : **Massachusetts Spill**: None of the components are listed.
Massachusetts Substances: The following components are listed: ETHYLENE GLYCOL
New Jersey Hazardous Substances: The following components are listed: ETHYLENE GLYCOL
New Jersey Spill: None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
Pennsylvania RTK Hazardous Substances: The following components are listed: 1,2-ETHANEDIOL

International regulations

International lists : **Australia inventory (AICS)**: Not determined.
China inventory (IECSC): Not determined.
Japan inventory (ENCS): Not determined.
Japan inventory (ISHL): Not determined.
Korea inventory (KECI): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

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SECTION 15 – REGULATORY INFORMATION

Chemical Weapons : Not listed
Convention List Schedule II
Chemicals

Chemical Weapons : Not listed
Convention List Schedule III
Chemicals

SECTION 16 – OTHER INFORMATION

Label requirements : CAUSES SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION.

Hazardous Material :
Information System (U.S.A.)

Health	1
Flammability	1
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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☑ Indicates information that has changed from previously issued version.

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.