

Material Safety Data Sheet

Shine & Seal



1. Product and company identification

Common name : Shine & Seal

Material uses : Not available.

Supplier/Manufacturer : Modern Stone Technologies
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Chandler, Az. 85224
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support@moderstonecare.com
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MSDS authored by: : Kemika XXI Inc. + 1-450-435-7475 08/15/2006

2. Hazards identification

Physical state : Liquid.

Hazard status : This material is classified hazardous under OSHA regulations in the United States, the WHMIS Controlled Product Regulation in Canada and the NOM-018-STPS-2000 in Mexico.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eyes : Irritating to eyes.

Skin : Slightly irritating to the skin.

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Potential chronic health effects : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Mutagenic effects: Not available.
Teratogenic effects: Not available.

Medical conditions aggravated by over-exposure : Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organ damage.

3. Composition/information on ingredients

United States

Name	CAS number	%
2-(2-methoxyethoxy)ethanol	111-77-3	>1
Dipropylene Glycol Methyl Ether	34590-94-8	>1
1-Methoxy-2-propanol	107-98-2	>1
Ethanol, 2-(2-Ethoxyethoxy)-	111-90-0	>1
Ethanol, 2-Butoxy, Phosphate (3:1)	78-51-3	>1

Canada

Name	CAS number	%
2-(2-methoxyethoxy)ethanol	111-77-3	>1
Dipropylene Glycol Methyl Ether	34590-94-8	>1
1-Methoxy-2-propanol	107-98-2	>1
Ethanol, 2-(2-Ethoxyethoxy)-	111-90-0	>1

Mexico

Name	UN number	IDLH	Classification				CAS number	%
			H	F	R	Special		
2-(2-methoxyethoxy)ethanol	Not regulated.	-	2	2	0		111-77-3	>1
1-Methoxy-2-propanol	UN3092	-	1	3	0		107-98-2	>1
Ethanol, 2-(2-Ethoxyethoxy)-	Not regulated.	-	1	1	0		111-90-0	>1
Ethanol, 2-Butoxy, Phosphate (3:1)	Not regulated.	-	1	1	0		78-51-3	>1
Dipropylene Glycol Methyl Ether	Not regulated.	600 ppm	0	1	0		34590-94-8	>1

4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Seek medical attention if symptoms occur.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Seek medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms occur.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

5 . Fire-fighting measures

- Flammability of the product** : Non-flammable.
- Extinguishing media**
- Suitable** : Use dry chemical, carbon dioxide, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : None.
- 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.

6 . Accidental release measures

- Personal precautions** : Use suitable protective equipment.
- Environmental precautions and clean-up methods** : Wash small spills to sanitary sewer. Large spills-confine spill, soak up with approved absorbent, shovel product into approved container for disposal.

7 . Handling and storage

- Handling** : Avoid contact with skin, eyes and clothing and as for any chemical, do not ingest this product.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use.

8 . Exposure controls/personal protection

United States

Product name

Dipropylene Glycol Methyl Ether

Exposure limits

ACGIH TLV (United States, 1/2005). Skin

STEL: 909 mg/m³ 15 minute(s). Form: All forms.

STEL: 150 ppm 15 minute(s). Form: All forms.

TWA: 606 mg/m³ 8 hour(s). Form: All forms.

TWA: 100 ppm 8 hour(s). Form: All forms.

NIOSH REL (United States, 12/2001). Skin

STEL: 900 mg/m³ 15 minute(s). Form: All forms.

STEL: 150 ppm 15 minute(s). Form: All forms.

TWA: 600 mg/m³ 10 hour(s). Form: All forms.

TWA: 100 ppm 10 hour(s). Form: All forms.

OSHA PEL (United States, 8/1997). Skin

TWA: 600 mg/m³ 8 hour(s). Form: All forms.

TWA: 100 ppm 8 hour(s). Form: All forms.

1-Methoxy-2-propanol

ACGIH TLV (United States, 1/2005).

STEL: 553 mg/m³ 15 minute(s). Form: All forms.

STEL: 150 ppm 15 minute(s). Form: All forms.

TWA: 369 mg/m³ 8 hour(s). Form: All forms.

TWA: 100 ppm 8 hour(s). Form: All forms.

NIOSH REL (United States, 12/2001).

STEL: 540 mg/m³ 15 minute(s). Form: All forms.

STEL: 150 ppm 15 minute(s). Form: All forms.

TWA: 360 mg/m³ 10 hour(s). Form: All forms.

TWA: 100 ppm 10 hour(s). Form: All forms.

OSHA PEL 1989 (United States, 3/1989).

STEL: 540 mg/m³ 15 minute(s). Form: All forms.

STEL: 150 ppm 15 minute(s). Form: All forms.

TWA: 360 mg/m³ 8 hour(s). Form: All forms.

TWA: 100 ppm 8 hour(s). Form: All forms.

Ethanol, 2-(2-Ethoxyethoxy)

AIHA WEEL (United States, 1/2005).

TWA: 25 ppm 8 hour(s). Form: All forms

Canada

Product name

Dipropylene Glycol Methyl Ether

Exposure limits

ACGIH TLV (United States, 1/2005). Skin

STEL: 909 mg/m³ 15 minute(s). Form: All forms.

STEL: 150 ppm 15 minute(s). Form: All forms.

TWA: 606 mg/m³ 8 hour(s). Form: All forms.

TWA: 100 ppm 8 hour(s). Form: All forms.

1-Methoxy-2-propanol

ACGIH TLV (United States, 1/2005).

STEL: 553 mg/m³ 15 minute(s). Form: All forms.

STEL: 150 ppm 15 minute(s). Form: All forms.

TWA: 369 mg/m³ 8 hour(s). Form: All forms.

TWA: 100 ppm 8 hour(s). Form: All forms.

Mexico**Product name**

Dipropylene Glycol Methyl Ether

1-Methoxy-2-propanol

Exposure limits**NOM-010-STPS (Mexico, 9/2000). Skin**CCT: 900 mg/m³ 15 minute(s). Form: All forms.

CCT: 150 ppm 15 minute(s). Form: All forms.

CPT: 60 mg/m³ 8 hour(s). Form: All forms.

CPT: 100 ppm 8 hour(s). Form: All forms.

ACGIH TLV (United States, 1/2005).STEL: 553 mg/m³ 15 minute(s). Form: All forms.

STEL: 150 ppm 15 minute(s). Form: All forms.

TWA: 369 mg/m³ 8 hour(s). Form: All forms.

TWA: 100 ppm 8 hour(s). Form: All forms.

- Engineering measures** : Use only with adequate ventilation.
- Personal protection**
- Eyes** : Safety glasses.
- Skin** : Lab coat.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.
- Hands** : Natural rubber (latex).
Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.
- HMIS Code/Personal protective equipment** : B
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

9 . Physical and chemical properties

- Physical state** : Liquid.
- pH** : Neutral.
- Boiling/condensation point** : >100°C (212°F)
- Melting/freezing point** : 0°C (32°F)
- Critical temperature** : The lowest known value is 280.9°C (537.6°F) (1-Methoxy-2-propanol).
- Relative density** : Weighted average: 1 (Water = 1)
- Vapor pressure** : The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Water). Weighted average: 2.23 kPa (16.73 mm Hg) (at 20°C)
- Vapor density** : <1 (Air = 1)
- Evaporation rate** : <1 compared with Butyl acetate.
- Viscosity** : Kinematic: The highest known value is <20 cSt (Ethanol, 2-Butoxy, Phosphate (3:1))
- Solubility** : Miscible in water.

10 . Stability and reactivity

- Stability and reactivity** : The product is stable.
- Incompatibility with various substances** : Reactive with oxidizing materials.
- Hazardous polymerization** : Will not occur.
- Conditions of reactivity** : None known.

11 . Disposal considerations

- Waste disposal** : Dispose material in accordance with all local, state, and federal regulations.

12 . Transport information

- NAERG** : Not applicable.
- Regulatory information**
- UN/ IMDG/IATA DOT/TDG** : Not regulated.

13 . Regulatory information

United States

- HCS Classification** : Irritating material
Target organ effects
- U.S. Federal regulations** : TSCA 4(a) final test rules: Dipropylene Glycol Methyl Ether
TSCA 8(a) PAIR: Dipropylene Glycol Methyl Ether; Ethanol, 2-Butoxy, Phosphate (3:1)
TSCA 8(b) inventory: All components listed.
TSCA 12(b) one-time export: Dipropylene Glycol Methyl Ether
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: Dipropylene Glycol Methyl Ether;
1-Methoxy-2-propanol; 2-(2-methoxyethoxy)ethanol; Ethanol, 2-(2-Ethoxyethoxy)-
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Dipropylene Glycol Methyl Ether: Fire hazard, Immediate (acute) health hazard; 1-Methoxy-2-propanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; 2-(2-methoxyethoxy)ethanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Ethanol, 2-(2-Ethoxyethoxy)-: Immediate (acute) health hazard, Delayed (chronic) health hazard
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: Ammonia
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	2-(2-methoxyethoxy)ethanol	111-77-3	>1
	Ethanol, 2-(2-Ethoxyethoxy)-	111-90-0	>1
Supplier notification	2-(2-methoxyethoxy)ethanol	111-77-3	>1
	Ethanol, 2-(2-Ethoxyethoxy)-	111-90-0	>1

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 : Pennsylvania RTK: Dipropylene Glycol Methyl Ether: (generic environmental hazard); 1-Methoxy-2-propanol: (generic environmental hazard); 2-(2-methoxyethoxy)ethanol: (environmental hazard, generic environmental hazard); Ethanol, 2-(2-Ethoxyethoxy)-: (environmental hazard, generic environmental hazard); Ammonia: (environmental hazard, generic environmental hazard); 1,4-Dioxane: (special hazard, environmental hazard, generic environmental hazard)
 Massachusetts RTK: Dipropylene Glycol Methyl Ether; 1-Methoxy-2-propanol; 2-(2-methoxyethoxy)ethanol; Ammonia; 1,4-Dioxane
 New Jersey: Dipropylene Glycol Methyl Ether; 1-Methoxy-2-propanol; 2-(2-methoxyethoxy)ethanol; Ethanol, 2-(2-Ethoxyethoxy)-; Ammonia; 1,4-Dioxane
WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
2-(2-methoxyethoxy)ethanol	No.	Yes.	No.	No.
1,4-Dioxane	Yes.	No.	Yes.	No.

Canada

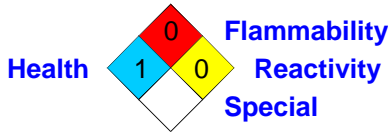
WHMIS (Canada) : Class D-2A: Material causing other toxic effects (Very toxic).
 Class D-2B: Material causing other toxic effects (Toxic).



DSL : All components listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR, the United States OSHA and the Mexican NOM -018-STPS-2000. This MSDS contains all the information required by the CPR, OSHA and NOM -018-STPS-2000.

Mexico

Classification :  **HAZARD RATINGS**

4- Extreme
 3- Serious
 2- Moderate
 1- Slight
 0- Minimal

International lists : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

14 . Other information

References : - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.

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Version : 1

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. 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.