

Material Safety Data Sheet

14 Glass & Surface Cleaner

1. Product and company identification

Product name	# 14 Glass & Surface Cleaner	In case of emergency	1-800-843-6174
Code	2224SC	Validation date	11/8/2011.
Material uses	Mild neutralizing rinsing agent	Print date	11/8/2011.
Manufacturer	Essential Industries, Inc. P.O. Box 12 Merton, WI 53056-0012 Phone: 262-538-1122	Responsible name	Regulatory Affairs Department

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

Health	*	1	HAZARD RATING
Flammability		2	4 = Extreme
Physical hazards		0	3 = High
Personal protection		B	2 = Moderate
			1 = Slight
			0 = Insignificant

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

2. Hazards identification

Emergency overview WARNING!
NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
Avoid contact with eyes, skin and clothing.

Potential acute health effects due to overexposure

Inhalation No known significant effects or critical hazards.
Ingestion No known significant effects or critical hazards.
Skin Slightly irritating to the skin.
Eyes Moderately irritating to eyes.

Potential chronic health effects due to overexposure

Carcinogenicity No known significant effects or critical hazards.
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.

See toxicological information (section 8)

3. Composition/information on ingredients

Name	CAS number	%
1-propoxypropan-2-ol	1569-01-3	10 - 30
1-Methoxy-2-propanol	107-98-2	5 - 10

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. Get medical attention immediately.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. 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.

5. Fire-fighting measures

Flammability of the product	Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Extinguishing media	
Suitable	Use dry chemical, CO ₂ , water spray (fog) or foam.
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide
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.
Flash point	Closed cup: 58°C (136.4°F)

6. Control and preventive measures

Storage	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. 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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Ingredient	Exposure limits
1-Methoxy-2-propanol	OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hour(s). STEL: 150 ppm 15 minute(s). TWA: 360 mg/m ³ 8 hour(s). STEL: 540 mg/m ³ 15 minute(s). ACGIH TLV (United States, 2/2010). TWA: 100 ppm 8 hour(s). TWA: 369 mg/m ³ 8 hour(s). STEL: 150 ppm 15 minute(s). STEL: 553 mg/m ³ 15 minute(s). NIOSH REL (United States, 6/2009). TWA: 100 ppm 10 hour(s). TWA: 360 mg/m ³ 10 hour(s). STEL: 150 ppm 15 minute(s). STEL: 540 mg/m ³ 15 minute(s).

Personal protection

Respiratory	None required. However, use of adequate ventilation is good industrial practice.
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.
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.
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.

Methods for cleaning up

Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
Waste disposal	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.

7. Physical and chemical properties

Physical state	Liquid	Boiling/condensation point	100°C (212°F)
Color	Blue	Melting/freezing point	0°C (32°F)
Odor	Solvent	Vapor pressure	<4 kPa (<30 mm Hg) [20°C]
VOC	27.9%	Vapor density	<1 [Air = 1]
pH	10.5 to 11.5	Weight per Gallon:	8.31 lbs./gal.
1% pH:	9.7	Specific Gravity:	1.00 gm/ml
Solubility	Complete		

8. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1-propoxypropan-2-ol	LD50 Dermal	Rabbit	3550 mg/kg	-
	LD50 Oral	Rat	2504 mg/kg	-
1-Methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Intraperitoneal	Rat	3720 mg/kg	-
	LD50 Intravenous	Rat	4200 mg/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
	LD50 Subcutaneous	Rat	7800 mg/kg	-
	LDLo Oral	Rat	3739 mg/kg	-
	LC50 Inhalation Gas.	Rat	10000 ppm	5 hours

Conclusion/Summary Not available

Chronic toxicity

Conclusion/Summary Not available

9. Transport information

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

PG* : Packing group