

Material Safety Data Sheet

3 GLASS CLEANER

1. Product and company identification

Product name	# 3 GLASS CLEANER	In case of emergency	1-800-843-6174
Code	2203SC	Validation date	7/14/2009.
Material uses	Concentrated glass cleaner	Print date	7/14/2009.
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	CAUTION! MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. May be harmful if swallowed. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that may cause target organ damage, based on animal data. Wash thoroughly after handling.
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Potential acute health effects due to overexposure

Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	Harmful if swallowed.
Skin	No known significant effects or critical hazards.
Eyes	No known significant effects or critical hazards.

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-methoxy-2-propanol	107-98-2	5 - 10
propan-2-ol	67-63-0	5 - 10
2-aminoethanol	141-43-5	1 - 5

SARA 313

Form R - Reporting requirements	Product name	CAS number	Concentration
	propan-2-ol	67-63-0	8.4045

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.

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. 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. 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	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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.
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.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
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. Control and preventive measures

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 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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Ingredient	Exposure limits
1-methoxy-2-propanol	ACGIH TLV (United States, 1/2008). TWA: 100 ppm 8 hour(s). OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hour(s). NIOSH REL (United States, 12/2001). TWA: 100 ppm 10 hour(s).
propan-2-ol	ACGIH TLV (United States, 1/2008). STEL: 400 ppm 15 minute(s). OSHA PEL (United States, 11/2006). TWA: 400 ppm 8 hour(s).
2-aminoethanol	ACGIH TLV (United States, 1/2008). TWA: 3 ppm 8 hour(s). OSHA PEL (United States, 11/2006). TWA: 3 ppm 8 hour(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 or absorb with an inert dry material and place in an appropriate waste disposal container. 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 [Dark]	Melting/freezing point	0°C (32°F)
Odor	Alcohol-like	Vapor pressure	<4 kPa (<30 mm Hg)
VOC	35.5%	Vapor density	<1 [Air = 1]
pH	10.5 to 11	Weight per Gallon:	8.15 lbs./gal.
1% pH:	9.0	Specific Gravity:	0.98 gm/ml

8. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1-methoxy-2-propanol	LD50 Oral	Rat	6600 mg/kg	-
propan-2-ol	LD50 Oral	Rat	5045 mg/kg	-
2-aminoethanol	LD50 Oral	Rat	1720 mg/kg	-

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