

SAFETY DATA SHEET

SPRAY CLEANER #8

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product name : SPRAY CLEANER #8

Product No. : 02504SC

Use of the substance/preparation : Concentrated all purpose spray cleaner

Company/undertaking identification

Manufacturer : Essential Industries, Inc.
P.O. Box 12
28391 Essential Rd.
Merton, WI 53056-0012 USA

Supplier : Essential Industries, Inc.
P.O. Box 12
28391 Essential Rd.
Merton, WI 53056-0012 USA

Emergency telephone number : 001-262-821-7814

2. Composition/information on ingredients

Substance/Preparation : Preparation

Ingredient Name	CAS number	%	EC Number	Classification
2-Aminoethanol	141-43-5	10-30	205-483-3	Xn; R20/21/22 C; R34
3-Butoxypropan-2-ol	5131-66-8	5-15	225-878-4	Xi; R36/38
1-Methoxy-2-propanol	107-98-2	1-5	203-539-1	R10
Surfactant Blend	Proprietary	1-5		Xi; R36/38
See Section 16 for the full text of the R Phrases declared above				

* Occupational Exposure Limit(s), if available, are listed in section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R10
C; R34

Physical/Chemical Hazards : Flammable.

Human health hazards : Causes burns.

See Section 11 for more detailed information on health effects and symptoms.

4. First aid measures

First aid measures

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician 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. Thoroughly clean shoes before reuse. Get medical attention immediately.

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Specific treatments : None identified.

See Section 11 for more detailed information on health effects and symptoms.

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5. Fire-fighting measures

- Extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical, or CO₂.
- Special exposure hazards** : Flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Not available.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...). Some metallic oxides.
- Special protective equipment for fire-fighters** : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- Remark** : No additional remark.

6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5). Do not touch or walk through spilled material.
- Environmental Precautions and Clean-up Methods** : Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.
If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling.
- 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. Avoid all possible sources of ignition (spark or flame).
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** : Industrial applications

8. Exposure controls/personal protection

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
2-Aminoethanol	EH40-OES (United Kingdom (UK), 2003). STEL: 15 mg/m ³ 15 minute(s). Form: All forms STEL: 6 ppm 15 minute(s). Form: All forms TWA: 7.6 mg/m ³ 8 hour(s). Form: All forms TWA: 3 ppm 8 hour(s). Form: All forms
1-Methoxy-2-propanol	EH40-OES (United Kingdom (UK), 2002). Skin STEL: 560 mg/m ³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 375 mg/m ³ 8 hour(s). TWA: 100 ppm 8 hour(s).

- Exposure controls**
- Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Respiratory protection** : Use an approved, properly fitted, powered-air purifying respirator or respirator of equivalent or greater protection.

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- Hand protection** : Use chemical resistant, impervious gloves.
- Eye protection** : Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to aerosols or splashes.
- Skin protection** : Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Appropriate techniques should be used to remove potentially contaminated clothing.

9. Physical and chemical properties

General information

Appearance

- Physical state** : Liquid.
- Color** : Yellowish-Green.
- Odor** : Herbal.

Important health, safety and environmental information

- pH** : 12.1 - 13.1
- Boiling Point** : The lowest known value is 100°C (212°F) (water). Weighted average: 125.36°C (257.6°F)
- Melting Point** : May start to solidify at 10.61°C (51.1°F) based on data for: 2-Aminoethanol. Weighted average: -1.35°C (29.6°F)
- Flash point** : 139°F 54°C (C.C.)
- Flammability (solid, gas)** : Not applicable.
- Explosive properties** : Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

- Oxidizing Properties** : Not available.
- Vapor Pressure** : The highest known value is <0.01 kPa (<0.1 mm Hg) (at 20°C) (Surfactant Blend).
- Relative density** : : 1.02 g/cm³
- Solubility** : Easily soluble in cold water, hot water, methanol, acetone.
- Octanol/water partition coefficient** : Not determined.
- Viscosity** : Not determined.
- Vapor Density** : The highest known value is 3.11 (Air = 1) (1-Methoxy-2-propanol). Weighted average: 2.11 (Air = 1)
- Evaporation rate (butyl acetate = 1)** : The highest known value is 0.814 (1-Methoxy-2-propanol) Weighted average: 0.26 compared to Butyl acetate.

Other information

- Auto-ignition temperature** : The lowest known value is 409.9°C (769.8°F) (2-Aminoethanol).

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : None identified.
- Materials to avoid** : None identified.
- Hazardous decomposition products** : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...). Some metallic oxides.

11. Toxicological information

Potential Acute Health Effects

- Inhalation** : Corrosive to the respiratory system.
- Ingestion** : May irritate digestive tract.
- Skin contact** : Corrosive to the skin.
- Eye contact** : Corrosive to eyes.

Acute toxicity

- | <u>Ingredient Name</u> | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|------------------------|-------------|---------------|--------------|----------------|
|------------------------|-------------|---------------|--------------|----------------|

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2-Aminoethanol	LD50	1720 mg/kg	Oral	Rat
	LD50	620 mg/kg	Oral	Guinea pig
	LD50	700 mg/kg	Oral	Mouse
	LDLo	1400 mg/kg	Oral	Mammal
3-Butoxypropan-2-ol	LD50	3100 mg/kg	Dermal	Rabbit
1-Methoxy-2-propanol	LD50	5700 mg/kg	Oral	Rabbit
	LD50	11700 mg/kg	Oral	Mouse
	LDLo	3739 mg/kg	Oral	Rat

Carcinogenicity : No carcinogenic effect known.

Mutagenicity : No mutagenic effect.

Reproductive toxicity : No teratogenic effect.

Over-exposure signs/symptoms

Target Organs : Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Other adverse effects : Not available.

12. Ecological information

Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
2-Aminoethanol	Oncorhynchus mykiss (LC50)	96 hour(s)	150 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	150 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	>200 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	300 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>300 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	329.16 mg/l

Mobility : Not available.

Other adverse effects : Not available.

13. Disposal considerations

Methods of disposal : Avoid contact of spilled material and runoff with soil and surface waterways. Dispose of according to all federal, state and local applicable regulations.





Waste Classification : Not applicable.

European Waste Catalogue (EWC) : Not available.

Hazardous Waste : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

<u>Regulatory information</u>	<u>UN number</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>Packing Group</u>	<u>Label</u>	<u>Additional information</u>
ADR/RID Class	1719	Caustic alkali liquid, n.o.s. (Monoethanolamine)	8	III		
ADN Class	1719	Caustic alkali liquid, n.o.s. (Monoethanolamine)	8	III		
IMDG Class	1719	Caustic alkali liquid, n.o.s. (Monoethanolamine)	8	III		EmS: F-A, S-B
IATA-DGR Class	1719	Caustic alkali liquid, n.o.s. (Monoethanolamine)	8	III		

15. Regulatory information

EU Regulations

Hazard symbol(s)	:	
		Corrosive
Risk phrases	:	R10- Flammable. R34- Causes burns.
Safety phrases	:	S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Contains	:	2-Aminoethanol 205-483-3
Product Use	:	Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use. - Industrial applications
EC Statistical Classification (Tariff Code)	:	32089091

National regulations

16. Other information

Full text of R phrases referred to in Sections 2 and 3 - United Kingdom (UK) : R10- Flammable.
R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
R34- Causes burns.
R36/38- Irritating to eyes and skin.

Full text of classifications referred to in Sections 2 and 3 - United Kingdom (UK) : C - Corrosive
Xn - Harmful
Xi - Irritant

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