

# SAFETY DATA SHEET

## ANNIHILATOR

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

#### Identification of the substance or preparation

**Product name** : ANNIHILATOR  
**Product no.** : 02911FX

**Use of the substance/preparation** : Floor finish remover

#### 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  
 United States

**Emergency telephone number** : 001-262-821-7814

### 2. Composition/information on ingredients

**Substance/preparation** : Preparation

Ingredient name	CAS number	%	EC number	Classification
2-butoxyethanol	111-76-2	40	203-905-0	Xn; R20/21/22 Xi; R36/38
2-Aminoethanol	141-43-5	5-10	205-483-3	Xn; R20 Xi; R36/37/38
propan-2-ol	67-63-0	5-10	200-661-7	F; R11 Xi; R36 R67
See section 16 for the full text of the R-phrases declared above				

Occupational exposure limits, 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  
 Xn; R20/21/22  
 Xi; R36/38

**Human health hazards** : Harmful by inhalation, in contact with skin and if swallowed.  
 Irritating to eyes and skin.

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.
- Ingestion** : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been 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. Clean shoes thoroughly 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.

## 5. Fire-fighting measures

- Extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.
- Special exposure hazards** : No specific hazard.  
Not available.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub> etc.), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub> etc.). 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. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5).
- Environmental precautions and clean-up methods** : Avoid contact of spilled material with soil and prevent runoff entering 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), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it 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 ingest. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** :

**8. Exposure controls/personal protection**

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
2-butoxyethanol	<b>EU OEL (Europe, 2000). Skin Notes: Indicative</b> STEL: 246 mg/m <sup>3</sup> 15 minute(s). STEL: 50 ppm 15 minute(s). TWA: 98 mg/m <sup>3</sup> 8 hour(s). TWA: 20 ppm 8 hour(s).
2-Aminoethanol	<b>ACGIH TLV (United States, 2003).</b> STEL: 15 mg/m <sup>3</sup> 15 minute(s). STEL: 6 ppm 15 minute(s). TWA: 7.5 mg/m <sup>3</sup> 8 hour(s). TWA: 3 ppm 8 hour(s).
propan-2-ol	<b>ACGIH TLV (United States, 2003). Notes: ACGIH 2003 Adoption Refers to Appendix A -- Carcinogens.</b> STEL: 400 ppm 15 minute(s). TWA: 200 ppm 8 hour(s).

<b>Recommended monitoring procedures</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Exposure controls</b>	
<b>Occupational exposure controls</b>	: 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 close to the workstation location.
<b>Respiratory protection</b>	: Use appropriate respiratory protection if there is a risk of exceeding any exposure limits.
<b>Hand protection</b>	: Use chemical-resistant, impervious gloves.
<b>Eye protection</b>	: Safety glasses. Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to aerosols or splashes.
<b>Skin protection</b>	: Additional body garments should be used to avoid exposed skin surfaces (e.g. sleevelets, apron, disposable suit etc.), based on the task being performed. Appropriate techniques should be used to remove potentially contaminated clothing.

**9. Physical and chemical properties****General information****Appearance**

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Clear.
<b>Odor</b>	: Solvent.

**Important health, safety and environmental information**

<b>pH</b>	: 11.5 - 12.5
<b>Boiling point</b>	: Lowest known value: 82.55°C (180.6°F) (propan-2-ol). Weighted average: 131.85°C (269.3°F)
<b>Melting point</b>	: May start to solidify at the following temperature: 10.61°C (51.1°F) This is based on data for the following ingredient: 2-Aminoethanol. Weighted average: -35.77°C (-32.4°F)
<b>Flash point</b>	: 125°F 53°C (C.C.)
<b>Flammability (solid, gas)</b>	: Not applicable.
<b>Explosive properties</b>	: Risk of explosion of the product in the presence of mechanical impact: Not available. Risk of explosion of the product in the presence of static discharge: Not available.
<b>Oxidizing properties</b>	: Not available.
<b>Relative density</b>	: Weighted average: 0.19 g/cm <sup>3</sup>
<b>Solubility</b>	: Easily soluble in the following materials: cold water, hot water, methanol, acetone.
<b>Octanol/water partition coefficient</b>	: Not determined.
<b>Viscosity</b>	: Not determined.

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**Vapor density** : Highest known value: 4.07 (Air = 1) (2-butoxyethanol). Weighted average: 3.53 (Air = 1)

**Evaporation rate (butyl acetate = 1)** : Highest known value: 1.7 (propan-2-ol) Weighted average: 0.32 compared with Butyl acetate.

### Other information

## 10. Stability and reactivity

**Stability** : The product is stable.

**Conditions to avoid** : None identified.

**Materials to avoid** : Avoid all possible sources of ignition (spark or flame).

**Hazardous decomposition products** : Decomposition products may include the following materials: carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub> etc.), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub> etc.). Some metallic oxides.

## 11. Toxicological information

### Potential acute health effects

**Inhalation** : Harmful by inhalation.

**Ingestion** : Harmful if swallowed.

**Skin contact** : Harmful in contact with skin. Irritating to skin.

**Eye contact** : Irritating to eyes.

### Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
2-butoxyethanol	LD50	470 mg/kg	Oral	Rat
	LD50	300 mg/kg	Oral	Rabbit
	LD50	1200 mg/kg	Oral	Guinea pig
	LD50	220 mg/kg	Dermal	Rabbit
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
propan-2-ol	LD50	5045 mg/kg	Oral	Rat
	LD50	6410 mg/kg	Oral	Rabbit
	LD50	3600 mg/kg	Oral	Mouse
	LD50	12800 mg/kg	Dermal	Rabbit
	LDLo	1537 mg/kg	Oral	Dog
	LDLo	3570 mg/kg	Oral	human
	LDLo	5272 mg/kg	Oral	man

**Carcinogenicity** : No carcinogenic effect known.

**Mutagenicity** : No mutagenic effect.

**Reproductive toxicity** : None identified.

### Over-exposure signs/symptoms

**Target organs** : Contains material which causes damage to the following organs: blood, kidneys, liver, lymphatic system, 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>
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2-butoxyethanol	Lepomis macrochirus (LC50)	96 hour(s)	1490 mg/l
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
propan-2-ol	Pimephales promelas (EC50)	48 hour(s)	10000 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>1400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	6550 mg/l
	Pimephales promelas (LC50)	96 hour(s)	9640 mg/l
	Pimephales promelas (LC50)	96 hour(s)	10400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 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

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

## 15. Regulatory information

### EU regulations

**Hazard symbol or symbols** :



Harmful

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<b>Risk phrases</b>	: R10- Flammable. R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/38- Irritating to eyes and skin.
<b>Safety phrases</b>	: S24/25- Avoid contact with skin and eyes. S36/37- Wear suitable protective clothing and gloves. S46- If swallowed, seek medical advice immediately and show this container or label.
<b>Contains</b>	: 2-butoxyethanol 203-905-0
<b>Product use</b>	: Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use. - Industrial applications
<b>EU statistical classification (Tariff Code)</b>	: 32089091

## 16. Other information

**Full text of R-phrases referred to in sections 2 and 3 - Europe** : R11- Highly flammable.  
R20- Harmful by inhalation.  
R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.  
R36- Irritating to eyes.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
R36/38- Irritating to eyes and skin.  
R67- Vapors may cause drowsiness and dizziness.

**Full text of classifications referred to in sections 2 and 3 - Europe** : F - Highly flammable  
Xn - Harmful  
Xi - Irritant

**Further information** : UBA No. 29160020

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### Notice to reader

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