



SAFETY DATA SHEET

1. Identification

Product number 1000009104
Product identifier **19 OZ CHALKBOARD CLNR WATR-BASED LB 12PK**
Company information CPC
1005 S. Westgate Drive
Addison, IL 60101 United States
Company phone General Assistance 630-543-7600
Emergency telephone US 1-866-836-8855
Emergency telephone outside US 1-952-852-4646
Version # 01
Recommended use Glass Cleaner
Recommended restrictions None known.

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1
Health hazards Acute toxicity, inhalation Category 4
Reproductive toxicity Category 1B
Specific target organ toxicity, single exposure Category 1
Environmental hazards Hazardous to the aquatic environment, acute hazard Category 3
OSHA defined hazards Not classified.

Label elements



Signal word Danger
Hazard statement Extremely flammable aerosol. May damage fertility or the unborn child. Causes damage to organs.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If exposed: Call a poison center/doctor. Specific treatment (see this label).

Storage

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	2.5 - 10
Methanol		67-56-1	2.5 - 10
Ethyl Alcohol		64-17-5	1 - 2.5

Chemical name	Common name and synonyms	CAS number	%
Propane		74-98-6	1 - 2.5
2-Butoxyethanol		111-76-2	0.1 - 1
1,4-Dioxane		123-91-1	0 - 0.1
Ethylene Glycol		107-21-1	0 - 0.1
Morpholine		110-91-8	0 - 0.1
N-Ethylmorpholine		100-74-3	0 - 0.1
Polyethylene Glycol		25322-68-3	0 - 0.1
Sodium Hydroxide		1310-73-2	0 - 0.1
t-Butyl Alcohol		75-65-0	0 - 0.1
Other components below reportable levels			90 - 100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	If symptoms develop move victim to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician or Poison Control Center immediately. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.
Skin contact	Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Call a physician or Poison Control Center immediately. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Call a physician or Poison Control Center immediately.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Immediate medical attention is required.

5. Fire-fighting measures

Suitable extinguishing media	Water.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. For waste disposal, see section 13 of the SDS.

Environmental precautions

Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Will ignite if exposed to intensive heat or open air. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Do not get this material in contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Use only in well-ventilated areas. Use personal protective equipment as required. Wear personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. The pressure in sealed containers can increase under the influence of heat. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Keep container dry. Refrigeration recommended. Keep away from food, drink and animal feedingstuffs. Store away from incompatible materials (see Section 10 of the SDS). Level 1 Aerosol (NFPA 30B)

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
1,4-Dioxane (CAS 123-91-1)	PEL	360 mg/m3
2-Butoxyethanol (CAS 111-76-2)	PEL	100 ppm 240 mg/m3
Ethyl Alcohol (CAS 64-17-5)	PEL	50 ppm 1900 mg/m3
Methanol (CAS 67-56-1)	PEL	1000 ppm 260 mg/m3
Morpholine (CAS 110-91-8)	PEL	200 ppm 70 mg/m3
N-Ethylmorpholine (CAS 100-74-3)	PEL	20 ppm 94 mg/m3
Propane (CAS 74-98-6)	PEL	20 ppm 1800 mg/m3
Sodium Hydroxide (CAS 1310-73-2)	PEL	1000 ppm 2 mg/m3
t-Butyl Alcohol (CAS 75-65-0)	PEL	300 mg/m3 100 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
1,4-Dioxane (CAS 123-91-1)	TWA	20 ppm	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Butane (CAS 106-97-8)	STEL	1000 ppm	
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm	
Ethylene Glycol (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol.
Methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
Morpholine (CAS 110-91-8)	TWA	20 ppm	
N-Ethylmorpholine (CAS 100-74-3)	TWA	5 ppm	
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
t-Butyl Alcohol (CAS 75-65-0)	TWA	100 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
1,4-Dioxane (CAS 123-91-1)	Ceiling	3.6 mg/m3
		1 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3
		5 ppm
Butane (CAS 106-97-8)	TWA	1900 mg/m3
		800 ppm
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm
Methanol (CAS 67-56-1)	STEL	325 mg/m3
		250 ppm
	TWA	260 mg/m3
		200 ppm
Morpholine (CAS 110-91-8)	STEL	105 mg/m3
		30 ppm
	TWA	70 mg/m3
		20 ppm
N-Ethylmorpholine (CAS 100-74-3)	TWA	23 mg/m3
		5 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m3
		1000 ppm
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
t-Butyl Alcohol (CAS 75-65-0)	STEL	450 mg/m3
		150 ppm
	TWA	300 mg/m3
		100 ppm

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
Polyethylene Glycol (CAS 25322-68-3)	TWA	10 mg/m3	Particulate.

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

1,4-Dioxane (CAS 123-91-1)	Can be absorbed through the skin.
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Morpholine (CAS 110-91-8)	Can be absorbed through the skin.
N-Ethylmorpholine (CAS 100-74-3)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

1,4-Dioxane (CAS 123-91-1)	Skin designation applies.
2-Butoxyethanol (CAS 111-76-2)	Skin designation applies.
Methanol (CAS 67-56-1)	Skin designation applies.
Morpholine (CAS 110-91-8)	Skin designation applies.
N-Ethylmorpholine (CAS 100-74-3)	Skin designation applies.

US - Tennessee OELs: Skin designation

1,4-Dioxane (CAS 123-91-1)	Can be absorbed through the skin.
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Morpholine (CAS 110-91-8)	Can be absorbed through the skin.
N-Ethylmorpholine (CAS 100-74-3)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

1,4-Dioxane (CAS 123-91-1)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Morpholine (CAS 110-91-8)	Can be absorbed through the skin.
N-Ethylmorpholine (CAS 100-74-3)	Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Morpholine (CAS 110-91-8)	Can be absorbed through the skin.
N-Ethylmorpholine (CAS 100-74-3)	Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

1,4-Dioxane (CAS 123-91-1)	Can be absorbed through the skin.
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
Morpholine (CAS 110-91-8)	Can be absorbed through the skin.
N-Ethylmorpholine (CAS 100-74-3)	Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Wear tight-fitting goggles or face shield.

Hand protection Wear protective gloves.

Skin protection

Other Wear chemical protective equipment that is specifically recommended by the manufacturer.

Respiratory protection Wear positive pressure self-contained breathing apparatus (SCBA). If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Avoid contact with skin. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Aerosol.
Color	Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range 201.25 °F (94.03 °C) estimated

Flash point -156.0 °F (-104.4 °C) Propellant estimated

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) 2 % estimated

Flammability limit - upper (%) 8.5 % estimated

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 24.22 psig @70F estimated

Vapor density Not available.

Relative density 0.968 g/cm3 estimated

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature 640.52 °F (338.07 °C) estimated

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density 0.97 g/cm3 estimated

Flammability class Flammable IB estimated

Flash point class Flammable IB

Heat of combustion 3.81 kJ/g estimated

Heat of combustion (NFPA 30B) 3.99 kJ/g estimated

Percent volatile 99.78 % estimated

Specific gravity 0.968 estimated

VOC (Weight %) 9.77 % estimated

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Risk of ignition.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Exposure to air. Heat, flames and sparks. Avoid temperatures exceeding the flash point.

Incompatible materials Oxygen. Do not mix with other chemicals.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful. May cause damage to organs by inhalation.
Skin contact	Not available.
Eye contact	Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
19 OZ CHALKBOARD CLNR WATR-BASED LB 12PK (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	27473.4258 mg/kg estimated 5316.3208 ml/kg estimated
	Rat	22114 mg/kg
<i>Inhalation</i>		
LC50	Cat	2996.8423 mg/l, 4.5 Hours estimated 1532.6316 mg/l, 6 Hours estimated
	Mouse	93035.6172 ppm, 7 Hours estimated 3427.9429 mg/l, 4 Hours estimated
	Rat	93086.9063 mg/l, 15 Minutes estimated 4498.2456 mg/l, 4 Hours estimated 3073.6843 mg/l, 6 Hours estimated 204 mg/l/4h
<i>Oral</i>		
LD50	Dog	483.4279 g/kg estimated
	Guinea pig	106.8845 g/kg estimated
	Monkey	70.1754 g/kg estimated
	Mouse	159.3573 g/kg estimated
	Rabbit	39.2188 g/kg estimated
	Rat	47202.168 mg/kg estimated
<i>Other</i>		
LD50	Monkey	105.2632 g/kg estimated
	Mouse	31995.5605 mg/kg estimated
	Rabbit	23540.8691 mg/kg estimated
	Rat	22991.7031 mg/kg estimated
Components		
1,4-Dioxane (CAS 123-91-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	7600 mg/kg
	Rat	> 8300 mg/kg
<i>Inhalation</i>		
LC50	Mouse	37 mg/l, 2 Hours
	Rat	46 mg/l, 2 Hours

Components	Species	Test Results
<i>Oral</i> LD50	Cat	2000 mg/kg
	Dog	2100 mg/kg
	Guinea pig	3150 mg/kg
	Mouse	5700 mg/kg
	Rabbit	2000 mg/kg
	Rat	7120 mg/kg
		5.2 ml/kg
<i>Other</i> LD50	Mouse	790 mg/kg
	Rabbit	1000 mg/kg
	Rat	799 mg/kg
2-Butoxyethanol (CAS 111-76-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	220 mg/kg
<i>Inhalation</i>		
LC50	Mouse	700 ppm, 7 Hours
	Rat	450 ppm, 4 Hours
		2.21 mg/l/4h
<i>Oral</i> LD50	Guinea pig	1.2 g/kg
	Mouse	1.2 g/kg
	Rabbit	0.32 g/kg
	Rat	470 mg/kg
<i>Other</i> LD50	Mouse	1130 mg/kg
	Rabbit	280 mg/kg
	Rat	340 mg/kg
Butane (CAS 106-97-8)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	680 mg/l, 2 Hours
	Rat	658 mg/l, 4 Hours
Ethyl Alcohol (CAS 64-17-5)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 ppm, 10 Hours
<i>Oral</i> LD50	Dog	5.5 g/kg
	Guinea pig	5.6 g/kg
	Mouse	3450 mg/kg
	Rat	6.2 g/kg
<i>Other</i> LD50	Mouse	933 mg/kg
	Rat	1440 mg/kg

Components	Species	Test Results
Ethylene Glycol (CAS 107-21-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	9530 mg/kg
<i>Oral</i>		
LD50	Cat	1650 mg/kg
	Dog	5500 mg/kg
	Guinea pig	8.2 g/kg
	Mouse	14.6 g/kg
	Rat	5.89 g/kg
<i>Other</i>		
LD50	Mouse	5.8 g/kg
	Rat	2800 mg/kg
Methanol (CAS 67-56-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	15800 mg/kg
<i>Inhalation</i>		
LC50	Cat	85.41 mg/l, 4.5 Hours 43.68 mg/l, 6 Hours
	Rat	64000 ppm, 4 Hours 87.5 mg/l, 6 Hours
<i>Oral</i>		
LD50	Dog	8000 mg/kg
	Monkey	2 g/kg
	Mouse	7300 mg/kg
	Rabbit	14.4 g/kg
	Rat	5628 mg/kg
<i>Other</i>		
LD50	Guinea pig	3556 mg/kg
	Hamster	8555 mg/kg
	Monkey	3 g/kg
	Mouse	4100 mg/kg
	Rabbit	1826 mg/kg
	Rat	2131 mg/kg
Morpholine (CAS 110-91-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	0.5 ml/kg
<i>Oral</i>		
LD50	Guinea pig	0.09 g/kg
	Mouse	720 mg/kg
	Rat	1.05 g/kg
N-Ethylmorpholine (CAS 100-74-3)		
Acute		
<i>Oral</i>		
LD50	Rat	1490 - 2120 mg/kg

Components	Species	Test Results
Propane (CAS 74-98-6)		
Acute		
<i>Inhalation</i>		
LC50	Rat	> 1442.847 mg/l, 15 Minutes 658 mg/l/4h
Sodium Hydroxide (CAS 1310-73-2)		
Acute		
<i>Dermal</i>		
LD50	Rat	1350 mg/kg
<i>Other</i>		
LD50	Mouse	40 mg/kg
t-Butyl Alcohol (CAS 75-65-0)		
Acute		
<i>Oral</i>		
LD50	Rabbit	3.6 g/kg
	Rat	3.5 g/kg
<i>Other</i>		
LD50	Mouse	0.9 g/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Risk of cancer cannot be excluded with prolonged exposure.
IARC Monographs. Overall Evaluation of Carcinogenicity	
1,4-Dioxane (CAS 123-91-1)	2B Possibly carcinogenic to humans.
2-Butoxyethanol (CAS 111-76-2)	3 Not classifiable as to carcinogenicity to humans.
Morpholine (CAS 110-91-8)	3 Not classifiable as to carcinogenicity to humans.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	
	Not listed.
US. National Toxicology Program (NTP) Report on Carcinogens	
1,4-Dioxane (CAS 123-91-1)	Reasonably Anticipated to be a Human Carcinogen.
Reproductive toxicity	Possible reproductive hazard. May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	Causes damage to organs.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not likely, due to the form of the product.
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.
Further information	Danger of very serious irreversible effects.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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Product	Species		Test Results
19 OZ CHALKBOARD CLNR WATR-BASED LB 12PK (CAS Mixture)			
Aquatic			
Algae	IC50	Algae	5714 mg/L, 72 Hours
Crustacea	EC50	Daphnia	94036.625 mg/L, 48 Hours estimated
Fish	LC50	Fish	57589 mg/L, 96 Hours
Components			
Species			
Test Results			
1,4-Dioxane (CAS 123-91-1)			
Aquatic			
Fish	LC50	Fish	10001, 96 Hours
2-Butoxyethanol (CAS 111-76-2)			
Aquatic			
Crustacea	EC50	Daphnia	1819 mg/L, 48 Hours
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
Ethyl Alcohol (CAS 64-17-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7700 - 11200 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100.1 mg/l, 96 hours
Ethylene Glycol (CAS 107-21-1)			
Aquatic			
Crustacea	EC50	Daphnia	46300 mg/L, 48 Hours
Fish	LC50	Fathead minnow (Pimephales promelas)	8050 mg/l, 96 hours
Methanol (CAS 67-56-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
Morpholine (CAS 110-91-8)			
Aquatic			
Fish	LC50	Zebra danio (Danio rerio)	> 1 mg/l, 96 hours
Polyethylene Glycol (CAS 25322-68-3)			
Aquatic			
Fish	LC50	Atlantic salmon (Salmo salar)	> 1000 mg/l, 96 hours
Sodium Hydroxide (CAS 1310-73-2)			
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	34.59 - 47.13 mg/l, 48 hours
Fish	LC50	Fish	45, 96 Hours
t-Butyl Alcohol (CAS 75-65-0)			
Aquatic			
Algae	IC50	Algae	1000.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia	933 mg/L, 48 Hours
Fish	LC50	Fathead minnow (Pimephales promelas)	6130 - 6700 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

1,4-Dioxane	-0.27
2-Butoxyethanol	0.83
Butane	2.89
Ethyl Alcohol	-0.31
Ethylene Glycol	-1.36
Methanol	-0.77

Partition coefficient n-octanol / water (log Kow)	
Morpholine	-0.86
Propane	2.36
t-Butyl Alcohol	0.35

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste U List: Reference

1,4-Dioxane (CAS 123-91-1)	U108
Methanol (CAS 67-56-1)	U154

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport information

DOT

UN number	UN1950
UN proper shipping name	Aerosols
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	None
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Special provisions	153, N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Methanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-E*
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

DOT



IATA



IMDG



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

1,4-Dioxane (CAS 123-91-1)	Listed.
Ethylene Glycol (CAS 107-21-1)	Listed.
Methanol (CAS 67-56-1)	Listed.
Sodium Hydroxide (CAS 1310-73-2)	Listed.

Ethylene Glycol (CAS 107-21-1)
 Methanol (CAS 67-56-1)
 Morpholine (CAS 110-91-8)
 N-Ethylmorpholine (CAS 100-74-3)
 Propane (CAS 74-98-6)
 Sodium Hydroxide (CAS 1310-73-2)
 t-Butyl Alcohol (CAS 75-65-0)

US. Rhode Island RTK

1,4-Dioxane (CAS 123-91-1)
 Butane (CAS 106-97-8)
 Ethylene Glycol (CAS 107-21-1)
 Methanol (CAS 67-56-1)
 Propane (CAS 74-98-6)
 Sodium Hydroxide (CAS 1310-73-2)
 t-Butyl Alcohol (CAS 75-65-0)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-Dioxane (CAS 123-91-1) Listed: January 1, 1988
 Safrole (CAS 94-59-7) Listed: January 1, 1988

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Methanol (CAS 67-56-1) Listed: March 16, 2012

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 07-17-2014

Version # 01

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision Information Product and Company Identification: Alternate Trade Names