

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 04/15/2015

SECT	ION 1: Identification of	of the substance/mixture and of the company/undertaking
1.1.	Product identifier	
Produc	t form	: Mixture
Produc	t name	: Mop & Strip
Produc	t code	: 565-4635
1.2.	Relevant identified uses	of the substance or mixture and uses advised against
Use of	the substance/mixture	: Floor strip products
1.3.	Details of the supplier of	i the safety data sheet
CSI Group Int'l IncDBA Concrete Services Int'l 575 Route 73 North, Unit C-4 West Berlin, NJ 08091 T (856) 381-0249		iervices Int'l
1.4.	Emergency telephone n	umber
No additional information available		

#### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

#### **Classification (GHS-US)**

Skin Corr. 1A H314 Full text of H-phrases: see section 16

#### 2.2. Label elements

GHS-US labeling	
Hazard pictograms (GHS-US)	CHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS-US)	<ul> <li>P260 - Do not breathe dust/mist/spray</li> <li>P264 - Wash hands and forearms thoroughly after handling</li> <li>P280 - Wear protective gloves/eye protection/face protection</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P310 - Immediately call a poison center/doctor</li> <li>P321 - Specific treatment (see First aid measures on this label)</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container in accordance with local/regional/national/international regulations</li> </ul>

#### 2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

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Name	Product identifier	%	Classification (GHS-US)
2-butoxyethanol	(CAS No) 111-76-2	5 - 10	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:gas), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
2-aminoethanol	(CAS No) 141-43-5	1 - 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314
Sodium Hydroxide, conc=50%, aqueous solution	(CAS No) 1310-73-2	1 - 5	Skin Corr. 1A, H314

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
4.3. Indication of any immediate medi	ical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
Reactivity	: Thermal decomposition generates : corrosive vapors.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. No	tify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and person	nal protection.
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SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe dust/mist/spray. Avoid contact during pregnancy/while nursing.	
Hygiene measures	: Wash hands and forearms thoroughly after handling.	
7.2. Conditions for safe storage, includi	ng any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Keep container closed when not in use.	
Incompatible products	: Strong bases. Strong acids.	
Incompatible materials	: Sources of ignition. Direct sunlight.	

#### 7.3. Specific end use(s)

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters Mop & Strip			
ACGIH	Not applicable	Not applicable	
OSHA	Not applicable		
2-butoxyethanol (1	11-76-2)		
ACGIH	ACGIH TWA (ppm)	20 ppm	
ACGIH	ACGIH STEL (ppm)	20 ppm	
ACGIH	Remark (ACGIH)	Eye & URT irr	
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>	
OSHA	OSHA PEL (TWA) (ppm)	50 ppm	
2-aminoethanol (14	1-43-5)		
ACGIH	ACGIH TWA (ppm)	3 ppm	
ACGIH	ACGIH STEL (ppm)	3 ppm	
ACGIH	Remark (ACGIH)	Eye & skin irr	
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>	
OSHA	OSHA PEL (TWA) (ppm)	3 ppm	
Sodium Hydroxide, conc=50%, aqueous solution (1310-73-2)			
ACGIH	Not applicable		
OSHA	Not applicable		
8.2. Exposure controls Personal protective equipment : Avoid all unnecessary exposure.			

Hand protection	: Wear protective gloves/eye protection/face protection protective gloves.
Eye protection	: Chemical goggles or face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION	SECTION 9: Physical and chemical properties		
9.1.	Information on basic physical and chemical properties		
Physical	state	: Liquid	
Color		: Purple	
Odor		: Butyl	
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Odor threshold	: No data available
pH	: 13
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 212 - 220 °F
Flash point	: ≥ 200 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: 1.08
Relative vapor density at 20 °C	: Same as water
Solubility	<ul> <li>Soluble in water.</li> <li>Water: Solubility in water of component(s) of the mixture :</li> <li>•: •: •: •: 103 g/100ml •: 42 g/100ml •: 66 g/100ml</li> </ul>
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	

No additional information available

# SECTION 10: Stability and reactivity 10.1. Reactivity Thermal decomposition generates : corrosive vapors. 10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : corrosive vapors.

SECT	TION 11: Toxicological information	
11.1	Information on toxicological effects	

#### Acute toxicity

: Not classified

2-butoxyethanol (111-76-2)	
LD50 oral rat	530 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 1746 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	435 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity; 435 mg/kg bodyweight; Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	2.17 mg/l/4h (Rat; Experimental value; 2.35 mg/l/4h; Rat; Experimental value)
LC50 inhalation rat (ppm)	450 - 486 ppm/4h 450-486,Rat

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2-butoxyethanol (111-76-2)		
ATE US (oral)	530.000 mg/kg body weight	
ATE US (dermal)	435.000 mg/kg body weight	
ATE US (gases)	450.000 ppmV/4h	
ATE US (vapors)	2.170 mg/l/4h	
ATE US (dust, mist)	2.170 mg/l/4h	
2-aminoethanol (141-43-5)		
LD50 oral rat	1720 mg/kg (Rat)	
LD50 dermal rabbit	1018 mg/kg (Rabbit)	
ATE US (oral)	1720.000 mg/kg body weight	
ATE US (dermal)	1018.000 mg/kg body weight	
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 13	
Serious eye damage/irritation	: Not classified pH: 13	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
2-butoxyethanol (111-76-2)		
IARC group	3 - Not classifiable	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	

## **SECTION 12: Ecological information**

12.1. Toxicity

2-butoxyethanol (111-76-2)		
LC50 fish 1	116 ppm (96 h; Cyprinodon variegatus; Nominal concentration)	
EC50 Daphnia 1	1700 mg/l (48 h; Daphnia sp.; Nominal concentration)	
LC50 fish 2	1341 ppm (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	1720 mg/l (24 h; Daphnia magna)	
TLM fish 1	100 - 1000,96 h; Pisces	
TLM other aquatic organisms 1	100 - 1000,96 h	
Threshold limit algae 1	900 mg/l (168 h; Scenedesmus quadricauda)	
Threshold limit algae 2	35 mg/l (192 h; Microcystis aeruginosa)	
2-aminoethanol (141-43-5)		
LC50 fish 1	150 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	140 mg/l (24 h; Daphnia magna)	
LC50 fish 2	329.16 mg/l (96 h; Lepomis macrochirus)	
TLM fish 1	100 - 1000,96 h; Pisces	
TLM other aquatic organisms 1	100 - 1000,96 h	
Threshold limit algae 1	0.97 mg/l (192 h; Scenedesmus quadricauda; Inhibitory)	
Threshold limit algae 2	35 mg/l (72 h; Algae)	

12.2.	12.2. Persistence and degradability			
Mop a	& Strip			
Persistence and degradability		Not established.		

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2-butoxyethanol (111-76-2)			
Persistence and degradability Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.			
Biochemical oxygen demand (BOD)	BOD) 0.71 g O₂/g substance		
Chemical oxygen demand (COD)	2.20 g O₂/g substance		
ThOD	2.305 g O₂/g substance		
BOD (% of ThOD)	0.31 % ThOD		
2-aminoethanol (141-43-5)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.		
Biochemical oxygen demand (BOD)	0.80 g O₂/g substance		
Chemical oxygen demand (COD)	1.34 g O <sub>2</sub> /g substance		
ThOD	2.49 g O <sub>2</sub> /g substance		
BOD (% of ThOD)	0.32 % ThOD		
Sodium Hydroxide, conc=50%, aqueous s	solution (1310-73-2)		
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available.		
2.3. Bioaccumulative potential			
Mop & Strip			
Bioaccumulative potential	Not established.		
2-butoxyethanol (111-76-2)			
Log Pow	0.81 (Experimental value; BASF test; 25 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
2-aminoethanol (141-43-5)			
Log Pow	-1.91		
Bioaccumulative potential	Bioaccumulation: not applicable.		
Sodium Hydroxide, conc=50%, aqueous s	solution (1310-73-2)		
Bioaccumulative potential	Does not contain bioaccumulative component(s).		
2.4. Mobility in soil			
2-butoxyethanol (111-76-2)			
Surface tension	0.027 N/m (25 °C)		
2-aminoethanol (141-43-5)			
Surface tension	0.050 N/m		
2.5. Other adverse effects			
Effect on the global warming : No known ecological damage caused by this product.			
Other information	: Avoid release to the environment.		
SECTION 13: Disposal considerati	ons		
3.1. Waste treatment methods			
Vaste disposal recommendations	<ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/regional/national/international regulations.</li> </ul>		
cology - waste materials	: Avoid release to the environment.		
SECTION 14: Transport informatio	n		
Department of Transportation (DOT)			
n accordance with DOT iransport document description : NA1760 Compounds, cleaning liquid (Contains Potassium Hydroxide), 8, II			
ransport document description	: NA1760 Compounds, cleaning liquid (Contains Potassium Hydroxide) 8 II		
ransport document description	: NA1760 Compounds, cleaning liquid (Contains Potassium Hydroxide), 8, II		
JN-No.(DOT)	: NA1760		

Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136

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Hazard labels (DOT) : 8 - Corrosive Packing group (DOT) : II - Medium Danger DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 242 : D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN DOT Symbols requiring a technical name : B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are DOT Special Provisions (49 CFR 172.102) not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. N37 - This material may be shipped in an integrally-lined fiber drum (1G) which meets the general packaging requirements of subpart B of part 173 of this subchapter, the requirements of part 178 of this subchapter at the packing group assigned for the material and to any other special provisions of column 7 of the 172.101 table. T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. DOT Packaging Exceptions (49 CFR 173.xxx) : 154 DOT Quantity Limitations Passenger aircraft/rail : 1 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 30 L CFR 175.75) **DOT Vessel Stowage Location** : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. DOT Vessel Stowage Other : 40 - Stow "clear of living guarters" **Additional information** Other information : No supplementary information available. ADR No additional information available

## Transport by sea

No additional information available

#### Air transport

No additional information available

SECTION	l 15: Re	egulatory	<sup>r</sup> information	

### 15.1. US Federal regulations

2-butoxyethanol (111-76-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 2-aminoethanol (141-43-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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cording to Federal Register / Vol. 77, No	•••	es and Regulations
Sodium Hydroxide, conc=50%,	• • •	
Listed on the United States TSCA Not listed on the United States SA		inventory
RQ (Reportable quantity, section 3 List of Lists)	304 of EPA's 1000 lb	
5.2. International regulations		
CANADA No additional information available		
EU-Regulations No additional information available		
Classification according to Regunation additional information available	lation (EC) No. 1272/2008 [CLF	2]
Classification according to Direct Not classified	tive 67/548/EEC [DSD] or 1999	/45/EC [DPD]
National regulations No additional information available		
15.3. US State regulations		
No additional information available		
SECTION 16: Other inform	ation	
Revision date	: 04/15/2015	
Other information	: None.	
Full text of H-phrases: Acute Tox. 2 (Inhalation:ga	(2)	Acute toxicity (inhalation:gas) Category 2
Acute Tox. 3 (Dermal)		Acute toxicity (dermal) Category 3
Acute Tox. 4 (Dermal)		Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A
Flam. Liq. 4		Flammable liquids Category 4
Skin Corr. 1A		Skin corrosion/irritation Category 1A
Skin Corr. 1B		Skin corrosion/irritation Category 1B
Skin Irrit. 2		Skin corrosion/irritation Category 12
H227		Combustible liquid
H302		Harmful if swallowed
H311		Toxic in contact with skin
H312		Harmful in contact with skin
H312		Causes severe skin burns and eye damage
		Jauses servere skin burns and eye damaye

HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal Protection	: B
	B - Safety glasses, Gloves
SDS US (GHS HazCom 2012)	
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Causes skin irritation

Fatal if inhaled

Causes serious eye irritation

H315

H319

H330

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product