



SECTION 1 PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: Cleaning Concentrate - Roof Cleaner Concentrate

Recommended Use: Cleaning Solution

Restriction on Use: None

Manufacturer:
KM Coatings Mfg.
5301 W. Mohave Street
Phoenix, AZ 85043
(602)-253-1168

SDS Date of Preparation: 11/3/17

Emergency Contact: (800) 424-9300 CHEMTREC (USA)

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification:

Physical	Health
Not Hazardous	Skin Irritation Category 2 Eye Irritation Category 2

Label Elements:

Warning!



Causes skin irritation.
Causes serious eye irritation.

Wash thoroughly after handling.
Wear protective gloves and eye protection.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical attention.

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENTS	CAS#	WT.%
2-Butoxyethanol	111-76-2	10-20%
Alcohol Sulfates, Sodium Salts	68585-47-7	1-5%
Alcohol Ethoxysulfate, Sodium Salt	68585-34-2	1-5%
Amines, C10-16-Alkyldimethyl, N-Oxides	70592-80-2	1-5%

The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURERS

Eyes: Immediately flush eyes with water for at least 15 minutes while lifting the upper and lower lids. Get medical attention if irritation persists.

Skin: Remove contaminated clothing. Flush skin with water for several minutes. Wash skin with soap and water. If irritation develops, get medical attention. Launder clothing before re-use.

Inhalation: If symptoms develop, move to fresh air. If symptoms persist, get medical attention.

Ingestion: If conscious, rinse mouth with water. Never give anything by mouth to a person who is unconscious or convulsing. If large amount is swallowed or gastrointestinal effects develop, get medical attention.

Most important symptoms/effects, acute and delayed: Causes eye and skin irritation. Inhalation of vapors or mists may cause respiratory irritation. Ingestion may cause nausea, vomiting and diarrhea.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is not normally required.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Use any media that is suitable for the surrounding fire. Cool fire exposed containers with water.

Special Protective Equipment and Precautions for Fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool fire-exposed containers with water.

Specific Hazards Arising from the Chemical: This product is an aqueous mixture that will not burn until all water has evaporated. Residue will burn after the fire has evaporated. Combustion products may include oxides of carbon.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate protective clothing to avoid eye and skin contact.

Methods and Materials for Containment and Cleaning Up: Dike the spilled material. Collect with inert material and place into a closable container for disposal. Wash spill area. Report spill as required by local and federal regulations.



SECTION 7 HANDLING and STORAGE

Precautions for Safe Handling: Avoid contact with the eyes, skin and clothing. Avoid breathing vapors and mists. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including any Incompatibilities: Store in a dry, well-ventilated area. Protect from physical damage.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

Exposure Guidelines:

INGREDIENTS	EXPOSURE LIMITS
2-Butoxyethanol	50 ppm TWA (skin) OSHA PEL 20 ppm TWA ACGIH TLV
Alcohol Sulfates, Sodium Salts	None Established
Alcohol Ethoxysulfate, Sodium Salt	None Established
Amines, C10-16-Alkyldimethyl, N-Oxides	None Established

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposures below occupation exposure limits.

Respiratory Protection: If the exposure limits are exceeded a NIOSH approved respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Gloves: Butyl rubber or other impervious gloves are recommended to avoid skin contact.

Eye Protection: Chemical safety goggles should be worn if splashing is possible.

Other Protective Equipment: Impervious clothing as needed to avoid skin contact.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

Appearance And Odor: Light green clear liquid, mild odor.

Boiling Point (@ 760 mmHg): 150-165°F (65.5-73.8°C)	Freezing Point: Not available
Odor Threshold: 0.48 (2-butoxyethanol)	Viscosity: Not determined
Relative density (H2O=1): 1.16	Vapor Pressure: Not available
VOC: Not determined	Vapor Density (AIR=1): >1
Evaporation Rate: Not available	Solubility In Water: Soluble
pH: Not available	Partition Coefficient n-Octanol/Water: Not available
Flash Point: >200°F (93.3°C)	Autoignition Temperature: Not applicable
Decomposition Temperature: Not determined	Flammability (solid, gas): Not applicable
Flammable Limits: (vol % in air)	LEL – Not applicable UEL – Not applicable

**SECTION 10 STABILITY and REACTIVITY**

Reactivity: Not normally reactive.

Chemical Stability: Stable under normal storage and handling conditions

Possibility of Hazardous Reactions: None known

Conditions to avoid: None known.

Incompatible materials: Avoid oxidizing agents.

Hazardous decomposition products: Thermal decomposition may yield oxides of carbon.

SECTION 11 TOXICOLOGICAL INFORMATION

Eye: Contact may cause irritation with redness, tearing and pain.

Skin: Skin contact may cause irritation and drying of the skin.

Inhalation: Inhalation of vapors or mists may cause mucous membrane and upper respiratory tract irritation

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sensitization: This product is not expected to cause sensitization.

Chronic Effects: None known.

Carcinogenicity: None of the components are listed as a carcinogen by NTP, IARC, ACGIH or OSHA.

Numerical Measures of Toxicity:

Acute Toxicity Estimate: Oral 8000 mg/kg,

2-Butoxyethanol: Oral guinea pig LD50 1414 mg/kg, Inhalation rat LC50 >3.91 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg

Alcohol Sulfates, Sodium Salts: Oral rat LD50 >2000 mg/kg

Alcohol Ethoxysulfate, Sodium Salt: Oral rat LD50 1850 mg/kg, Dermal rabbit LD50 >2000 mg/kg

Amines, C10-16-Alkyldimethyl, N-Oxides: Oral rat LD50 1330 mg/kg

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity:**

2-Butoxyethanol: 96 hr EC50 *Oncorhynchus mykiss* 1474 mg/L, 48 hr EC50 *daphnia magna* 1550 mg/L, 72 hr EC50

Pseudokirchnerella subcapitata 911 mg/L

Alcohol Sulfates, Sodium Salts: No data available.

Alcohol Ethoxysulfate, Sodium Salt: 96 hr LC50 fish 2.3 mg/L, 48 hr EC50 *ceriodaphnia dubia* 2.3 mg/L

Amines, C10-16-Alkyldimethyl, N-Oxides: No data available

Persistence and degradability: 2-Butoxyethanol, alcohol sulfates, sodium salt and amines, C10-16-alkyldimethyl, n-oxides are readily biodegradable.

Bioaccumulative potential: 2-Butoxyethanol has a BCF of 3 which suggest the potential for bioaccumulation is low.

Mobility in soil: 2-Butoxyethanol is highly mobile in soil.

Other adverse effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with all local, state and federal regulations.



SECTION 14: TRANSPORT INFORMATION

DOT:

UN/ID Number	None
Proper Shipping Name	Not Regulated
Hazard Class	None
Packing Group	None
ERG Code	N/A
DOT Special Provisions	None known
Description	None

TDG:

UN/ID Number	None
Proper Shipping Name	Not Regulated
Hazard Class	None
Packing Group	None
ERG Code	N/A
TDG Special Provisions	None known
Description	None

IATA:

UN/ID Number	None
Proper Shipping Name	Not Regulated
Hazard Class	None
Packing Group	None
ERG Code	N/A
Special Provisions	None known
Description	None

IMDG:

UN/ID Number	None
Proper Shipping Name	Not Regulated
Hazard Class	None
Packing Group	None
EmS-No	N/A
Special Provisions	None known
Description	None

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known

SECTION 15: REGULATORY INFORMATION

SARA Hazard Category (311/312): Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313:
2-Butoxyethanol (glycol ether) 111-76-2 10-20%

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.



Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory.

California Proposition 65: This product does not contains chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 16: OTHER INFORMATION

NFPA Rating:	Health = 2	Fire = 0	Instability = 0
HMIS Rating:	Health = 2	Fire = 0	Physical Hazard = 0

SDS Date of Preparation: 11/3/17

Revision Summary: Header, Section 14 Transportation, Section 15 SARA 311/312

NOTICE

The information contained herein is based upon the data available to us and is believed to be accurate. However, KM Coatings Mfg. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. KM Coatings Mfg. assumes no responsibility for injury from the use of the products described herein.

This MSDS conforms with the OSHA Hazard Communication Standard 1900.1210 and to SARA Title III, Section 313 for supplier notification.