MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: KRUD KUTTER® Ultra Power Specialty Adhesive Remover
Synonyms: Not applicable
Molecular Formula: Not applicable
Molecular Weight: Not applicable

Supplier:
Supreme Chemicals of Georgia, Inc.
1535 Oak Industrial Lane, Suite B
Cumming, GA 30041
USA

Emergency Telephone:
(CHEMTREC) 800-424-9300
(Non-emergency Telephone) 800-466-7126

Intended Use: Cleaning agent

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Liquid
Color: Clear orange
Odor: Citrus

DANGER!
Causes eye and skin severe burns.
Mist or vapor causes irritation to the respiratory tract.

Potential Health Effects

Inhalation: Mist or vapor causes irritation to the respiratory tract. Exposure may cause coughing, wheezing and respiratory irritation.

Eye Contact: Causes eye severe burns. Exposure may cause burning, tearing, redness and discomfort.

Skin Contact: Causes skin severe burns. Exposure can cause burning, redness, itching and inflammation.

Ingestion: Not expected to be an ingestion hazard for intended use. Exposure may cause gastrointestinal burns, nausea, vomiting, diarrhea and other systemic effects.

Chronic Health Effects: Long term exposure to 2-butoxyethanol may cause blood, liver and kidney damage based on animal data.

Target Organ(s): Eyes, skin, liver, kidney, blood

OSHA Regulatory Status: Hazardous

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
water	7732-18-5	> 50
d-limonene	5989-27-5	< 25
surfactant	proprietary	< 10
2-butoxyethanol	111-76-2	< 5
diethylene glycol monobutyl ether	112-34-5	< 5

Components not listed are not hazardous or are below reportable limits

4 FIRST AID MEASURES

Inhalation: Move to fresh air. Treat symptomatically. Get medical attention.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention 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. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean contaminated shoes before reuse.

Ingestion: If swallowed, DO NOT induce vomiting, unless directed by medical personnel. Get medical attention immediately.

5 FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide, dry chemical or foam.

Unsuitable Extinguishing Media: Not applicable

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire & Explosion Hazards: None

Hazardous Combustion Products: Carbon oxides, sulfur oxides

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment (See Section 8).

Spill Cleanup Methods: Small Liquid Spills: Wipe up or use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Large Spillages: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Flush with water spray. Prevent entry into waterways, sewer, basements or confined areas.

7 HANDLING AND STORAGE

Handling: Avoid breathing mist or vapors. Do not get in eyes, on skin or clothing. Do not taste or swallow. Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from strong oxidizing agents.

Storage: Keep container tightly closed. Store in original container. Keep out of reach of children.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Industrial Exposures:

Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
2-Butoxyethanol	NIOSH	IDLH	700 ppm	Skin
2-Butoxyethanol (EGBE)	ACGIH	TWA	20 ppm	Irritation; CNS
2-Butoxyethanol	OSHA	TWA	50 ppm	Skin
2-Butoxyethanol	Cal OSHA	TWA	25 ppm	Skin
D-Limonene	AIHA	WEELs	30 ppm	--

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne contaminants below established exposure limits.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Eye Protection: Wear splash goggles and a face shield where a splash hazard exists.

Hand Protection: Wear chemical resistant gloves.

Skin Protection: Wear protective clothing appropriate for the risk of exposure.

Hygiene Measures: Eye wash, safety shower, washing facilities

9 PHYSICAL AND CHEMICAL PROPERTIES

Color: Clear orange
Odor: Citrus
Physical State: Liquid
pH: 3.5
Boiling Point: No data available
Melting Point: No data available
Flash Point: > 93.3°C (estimated)
Evaporation Rate: No data available
Flammability: No data available
Flammability Limit – Upper (%): No data available
Flammability Limit – Lower (%): No data available

Vapor Pressure: No data available
Vapor Density (Air=1): No data available
Specific Gravity: No data available
Solubility in Water: No data available
Partition Coefficient (n-Octanol/water): No data available
Autoignition Temperature: Not applicable
Decomposition Temperature: No data available
Volatile Organic Compounds (VOC): 30%
Viscosity: No data available
Percent Volatile: 30%

10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: None known

Incompatible Materials: Strong oxidizing agents, strong acids, strong bases

Hazardous Decomposition Products: Carbon oxides, sulfur oxides

Possibility of Hazardous Reactions: Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity – Available upon request.

Listed Carcinogens: None

12 ECOLOGICAL INFORMATION

Krud Kutter® Ultra Power Remover is biodegradable.

13 DISPOSAL CONSIDERATIONS

General Information: Dispose in accordance with applicable federal, state, and local regulations.

Disposal Methods: No specific disposal method required.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14 TRANSPORT INFORMATION

DOT: ORM-D
Proper Shipping Name: Consumer Commodity
Packaging Requirements: Inner packagings not over 1.0 Liters (0.3 Gallons) net capacity each for liquids, and packed in strong outer packagings not to exceed 30 kg (66 pounds) gross weight.

For over 30 kilograms (66 pounds):

UN-Number: 1760
Proper Shipping Name: Corrosive liquid, n.o.s. (d-limonene)
Class: 8
Packaging Group: II
Emergency Response Guide Number: 154

TDG:
Limited Quantity
Inner packaging must not exceed 1.0 Liters (0.3 Gallons). The gross mass of the package must not exceed 30 kilograms (66 pounds).

For over 30 kilograms (66 pounds):
UN-Number: 1760
Proper Shipping Name: Corrosive liquid, n.o.s. (d-limonene)
Class: 8
Packaging Group: II

IATA:
UN-Number: 1760
Proper Shipping Name: Corrosive liquid, n.o.s. (d-limonene)
Class: 8
Packaging Group: II
Label: Corrosive

Passenger & Cargo Aircraft Packing Instructions: Y808
For Limited Quantities of liquids of Class 8 Packing Group II:
Passenger & Cargo Aircraft Limited Quantity Maximum Quantity Package: 0.5 Liter
Single packagings are not permitted. The inner packagings must be packed in one of the following outer packagings with sufficient cushioning/absorbent material so as to prevent movement/leakage. The maximum quantity must not exceeded. Inner packagings: glass earthenware, plastic, metal (not aluminum), aluminum or glass ampoule.
Outer Packaging: Glass or earthenware inner packagings and glass ampoules must be packaged with compatible absorbent material in tightly closed metal or rigid plastic receptacles before being packaged in outer packagings.
Outer Packaging: Boxes: Solid plastic boxes must be used.

Passenger & Cargo Aircraft Packing Instructions: 808
Passenger & Cargo Aircraft Maximum Quantity/Package: 1 Liter
Single packagings are not permitted. The inner packagings must be packed in one of the following outer packagings with sufficient cushioning/absorbent material so as to prevent movement/leakage. The maximum quantity must not exceeded. Inner packagings: glass earthenware, plastic, metal (not aluminum), aluminum or glass ampoule.
Outer Packaging: Glass or earthenware inner packagings and glass ampoules must be packaged with compatible absorbent material in tightly closed metal or rigid plastic receptacles before being packaged in outer packagings.
Outer Packaging: Drums: Steel (1A2), aluminum (1B2), plywood (1D), fiber (1G), plastic (1H2).
Jerricans: Steel (3A2), Aluminum (3B2), Plastic (3H2);
Boxes: UN Certified Box, Steel (4A), aluminum (4B), wood (4C1,4C2), plywood (4D), reconstituted wood (4F), fiber board (4G) and plastic (4H2).

Cargo Aircraft Only Package Instruction: 812

Cargo Aircraft Only Maximum Quantity/Package: 30 Liters
Combination and single packagings are permitted. The inner packagings must be packed in one of the following outer packagings with sufficient cushioning/absorbent material so as to prevent movement/leakage. Combination packagings: inner packagings: Glass or earthenware, plastic, metal (not aluminum), aluminum or glass ampoule.
Outer packaging: Drums: Steel (1A2), aluminum (1B2), plywood (1D), fiber (1G), plastic (1H2).
Jerricans: Steel (3A2), Aluminum (3B2), Plastic (3H2); **Boxes:** UN Certified Box, Steel (4A), aluminum (4B), wood (4C1,4C2), plywood (4D), reconstituted wood (4F), fiber board (4G) and plastic (4H2).
Special Provisions: A3
ERG Code: 8L

IMDG:
Limited Quantities Exception: Dangerous Goods in limited quantities of Class 8.
Limited quantities must be packed in combination packaging. The inner packaging must be within the quantity limit specified in the Dangerous Goods List (DGL) for the substance being prepared for shipment and be packaged in suitable outer packaging. The gross mass of the package must not exceed 30 kilograms (66 pounds).

For over 30 kilograms (66 pounds):
UN-Number: 1760
Proper Shipping Name: Corrosive liquid, n.o.s. (d-limonene)
Class: 8
Packaging Group: II
EMS No: F-A, S-B
Special Provision: 274

15 REGULATORY INFORMATION

Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS Classification: D2A, E

Mexico: Hazardous

Inventory Status
This product or all components are listed on the following inventory: TSCA, DSL

US Regulations
CERCLA Hazardous Substance List (40 CFR 302.4):

Component	Reportable Quantity
Glycol ethers	--

SARA Title III
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None

Section 311/312 (40 CFR 370):

X	Acute (Immediate)	X	Chronic (Delayed)		Fire		Reactive		Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372):

Component	CAS No.	Concentration
Certain glycol ethers	111-76-2	< 5 %
Certain glycol ethers	112-34-5	< 5 %

Clean Air Act (CCA) Section 112, 1990 Amendments, Statutory Hazardous Air Pollutants: None

Clean Air Act (CAA) Section 112(i) High-Risk Hazardous Air Pollutants (40 CFR 63.74): None

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None

Clean Water Act Section 307 Toxic Pollutants (40 CFR 401.15): None

Clean Water Act Section 311 Hazardous Chemical (40 CFR 116.4): None

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None

Drug Enforcement Act: None

TSCA: None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): None listed
Massachusetts Right-To-Know List: 2-Butoxyethanol
New Jersey Right-To-Know List: 2-Butoxyethanol; Glycol ethers; Dipentene (d-limonene)

16 OTHER INFORMATION

Hazard Ratings

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
NFPA	3	1	0	N/A

	Health Hazard	Fire Hazard	Reactivity Hazard
HMIS	3*	1	0

0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe; *- Chronic health effect

Revision Information: New

Prepared by: Supreme Chemicals of Georgia, Inc.
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