KRETUS GROUP®

Safety Data Sheet

Section 1: Identification

Product Name:	KRETUS® **Power Cleaner**
Recommended Use:	For residential and industrial use
Manufacturer:	Kretus Group® 1426 W Collins Ave, Orange, CA 92867
Telephone:	(714) 681-2286
24 Hour Emergency Telephone Number:	(800) 255-3924 (CHEMTEL)

Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

Comments: To the best of our knowledge, this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/EEC and Canadian Hazardous Product Act.

Section 2: Hazard Identification

Classification of substance or mixture
Product description: Mixture
Classification (Regulation REGULATION (EC) No 1272/2008)
This product is not classified as dangerous according to Regulation (EC) No. 1272/2008

Label Elements
Labeling (Regulation (EC) No 1272/2008)

Hazard Symbols:	NONE KNOWN
Signal Word:	NONE KNOWN
Hazard Statements:	NONE KNOWN

Section 3: Composition/ Information on Ingredients

Substances: Not applicable

Mixtures
Chemical characterization (preparation): Solvent/surfactant blend
The composition of this material is a trade secret (29 CFR 1910.1200(i)). The identities of the components of this product are available to the attending physician or paramedical personnel in case of emergency. Proprietary ingredients are non-toxic.

Section 4: First-Aid Measures

Description of first aid measures
Inhalation: If product vapors cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention immediately.
Eyes: Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting upper and. lower lids. Remove contact lenses after the first 5 minutes and continue rinsing. Obtain immediate medical attention, preferably from an ophthalmologist.
Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash affected area with soap and water. Wash contaminated
Ingestion: Rinse mouth with water. Remove dentures, if any. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Most important symptoms and effects, both acute and delayed Potential health symptoms and effects
Eyes: Cause moderate to severe transient irritation. Symptoms include redness, pain, burning sensation and/or tearing.
Skin: May cause mild skin irritation. Not expected to cause an allergic skin reaction. A single prolonged skin exposure is not likely to result in the Cause moderate to severe transient irritation. Symptoms include redness, pain, burning sensation and/or tearing. Material being absorbed in harmful amounts. Clothing and shoes thoroughly before reuse.
Inhalation: Inhalation of mist or spray or vapors generated by heating may cause irritation of the respiratory system.
Ingestion: May cause digestive upset including irritation, nausea, vomiting and diarrhea
Chronic: Prolonged and repeated exposure may cause drying of skin and dermatitis in susceptible individuals.

Section 5: Fire-Fighting Measures

Suitable extinguishing media: Use media such as water fog or mist, water spray, dry chemical or carbon dioxide.
Unsuitable methods of extinction: None known.
Special hazards arising from the substance or mixture
Development of hazardous combustion gases or vapors is possible in the event of a fire. Symptoms of overexposure to these gases may not be apparent. Seek medical advice.
Hazards from Combustion Products: Hazardous decomposition products formed under fire conditions. - Carbon oxides
Precautions for Fire Fighters: Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat. If possible, firefighters should control run-off water to prevent environmental contamination.
Hazchem Code: Not available.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Spill area will be slippery. Wear appropriate protective clothing designated in Section 8. Remove all sources of ignition. Ventilate the area.
Environmental precautions: Avoid dispersal of spilled material or run-off and prevent contact with soil and entry into drains, sewers or waterways.
Methods and materials for containment and cleaning up: Cover drains and contain spills. Cover with a large quantity of inert absorbent. Do not use combustible absorbents such as saw dust. Shovel or sweep up product and place into approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Clean contaminated area with soap and water.
Reference to other sections: For indications about waste treatment, see Section 13.

Section 7: Handling and Storage

Handling: Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Keep containers closed when not in use.
Advice on protection against fire and explosion: Although this material has a flash point of >93 °C (>200 °F) it will burn in a fire. Keep away from heat and flames.
Conditions for safe storage, including any incompatibilities: Keep in cool, dry, ventilated storage areas in closed containers. Transfer only to approve containers having correct labeling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Do not take internally. Keep out of reach of children.
Specific end uses
For indications about waste treatment, see Section 13.

Section 8: Exposure Controls/ Personal Protection

Control Parameters:

CAS NUMBER	INGREDIENT	OSHA PEL	ACGIH TLV	NIOSH
107-41-5	2-Methylpentane-2,4-diol	----------	25 ppm; 125 mg/m3 TWA	25 ppm; 125 mg/m3 TWA

Exposure controls
Appropriate Engineering Controls: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1.
Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.
Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory
Eye/face protection: Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.
Hand Protection: Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.
Other protective equipment: Protective clothing. Protective boots, if the situation requires.
Respiratory Protection: None required with normal use. Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Environmental exposure controls: Do not empty into drains.

Section 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Form:	liquid
Appearance:	Clear, colorless to pale yellow liqui
Odor:	Mild
Color:	White
Odor Threshold:	No information available
PH Value:	8.5 – 9.0
Melting Point/Freezing Point:	No information available
Boiling Point:	94°C (201°F)
Flash Point:	>93 °C (>200 °F)
Vapor Pressure (25ºC):	<1 mm Hg @ 22 °C
VOC	<50g/L as supplied in concentrate

Section 10: Stability and Reactivity

Reactivity: No information available.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous Reactions: None under normal processing.
Hazardous Polymerization: None under normal processing.
The substance decomposes on burning and may produce irritating fumes.
Conditions to Avoid: Extreme weather conditions
Incompatible Materials: Strong oxidizing agents, strong acids
Hazardous Decomposition Products Thermal decomposition products include oxides of carbon, oxides of nitrogen.

Section 11: Toxicological Information

Information on toxicological effects

Acute Oral Toxicity:	Product is expected to have low toxicity.
Acute inhalation toxicity:	No data available
Acute dermal toxicity:	No data available
Skin irritation:	No data available
Eye irritation:	No data available
Sensitization:	No data available
Genotoxicity:	No data available
Mutagenicity:	No data available
Specific organ toxicity - single exposure:	No data available
Aspiration hazard:	No data available
Specific organ toxicity - repeated exposure:	No data available

None of the components in this product present at levels greater than or equal to the 0.1% threshold (de minimis) are identified as a probable, possible, potential or confirmed carcinogens by ACGIH, IARC, NTP or OSHA.
Handle in accordance with good industrial hygiene and safety practice.

Section 12: Ecological Information

Ecotoxicity:	No information available
Persistence and Degradability:	No information available
Bioaccumulation:	No information available
Mobility:	No information available
Other Adverse Effects:	No information available

Section 13: Disposal Considerations

Waste treatment methods
Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging: Improper disposal or reuse of this container may be dangerous and illegal. Empty containers must be scrapped or reconditioned.

Section 14: Transport Information

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(es)	14.4 Packing Group	14.5 Environmental Hazards
DOT	*Not Regulated	Not Regulated	Not Regulated	Not Regulated	Not Regulated
IMO/IMDG	*Not Regulated	Not Regulated	Not Regulated	Not Regulated	Not Regulated
IATA/ICAO	*Not Regulated	Not Regulated	Not Regulated	Not Regulated	Not Regulated

Marine Pollutant: This product is a not a marine pollutant.

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for substance or mixture
U. S. Federal Regulations
OSHA Hazard Communication Standard: This material is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard (28 CFR 1910.1200).
TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory.
Superfund Amendments and Reauthorization Act (SARA)
SARA Section 311/312 Hazard Categories: Acute Health Hazard, Chronic Health Hazard
SARA 313 Information: None of the chemicals in this product exceed the threshold (de minimis) reporting levels established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.
SARA 302/304 Extremely Hazardous Substance: No components of the product are subject to the reporting requirements of these sections of Title III of SARA.
SARA 302/304 Emergency Planning & Notification: No components of the product are subject to the reporting requirements of these sections of Title III of SARA.
Comprehensive Response Compensation and Liability Act (CERCLA): No components of the product exceed the threshold (de minimis) reporting levels for hazardous wastes established by CERCLA.
This product does not contain any chemicals that are listed as a Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).
Clean Air Act (CAA)
This product does not contain any Class 1 Ozone depletors.
This product does not contain any Class 2 Ozone depletors.
Clean Water Act (CWA)
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
Other U.S. State Inventories:
U.S. State Regulations
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:
This product contains no chemical(s) known to the state of California to cause cancer or other reproductive harm.
Canadian Controlled Products Regulations (CPR):
Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.
This product has been classified in accordance with the hazard criteria of the Controlled
Canada
WHMIS Hazard Symbol and Classification: No data available.
Canadian Controlled Products Regulations (CPR):
Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.
This product has been classified in accordance with the hazard criteria of the Controlled
Canadian National Pollutant Release Inventory (NPRI): Components of this product are not listed on the NPRI.
Canadian Ingredient Disclosure List (IDL): 2-Methylpentane-2,4-diol (CAS #107-41-5) is listed on the IDL.
European Economic Community
Labeling (67/548/EEC to 1999/45/EC)
Not applicable. The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
Risk Phrases: None allocated
Safety phrases: S2 - Keep out of reach of children.
S25 - Avoid contact with eyes.

Section 16: Other Information

Hazardous Material Information System (HMIS):

Scale 0-4		*NFPA*	*HMIS*
4 – Severe Hazard	Health	1	1
3 – Serious Hazard	Flammability	1	1
2 – Moderate Hazard	Reactivity	0	0
1 – Slight Hazard			
0 – Minimal Hazard			

Personal Protection safety glasses, neoprene rubber gloves.

Disclaimer

The information and recommendations presented herein are accurate to the best of our knowledge. User must conduct their own tests to determine the suitability of these products for their particular purposes and usage. Because of numerous factors affecting results, KRETUS GROUP® and its affiliation makes no warranty of any kind, express or implied, including those of merchantability and fitness for purpose, other than material conforms to our applicable current specifications. KRETUS GROUP® assumes no legal responsibility for use or reliance on the information contained in this safety data sheet.

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