



M610-Ult Cat HC Ultra Catalyst

MATERIAL SAFETY DATA SHEET

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Health: 3 Flammability: 3 Reactivity 0

PRODUCT NAME: M610-Ult Cat HC Ultra Catalyst

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 04/02/05
SUPERCEDES: None
MSDS NO. M610-ULCAT
OSHA HAZ. CLASS: Eye irritant.

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
butanol	61-70	78-92-2	150 ppm TWA; 450 mg/m3 TWA
organic acid phosphate	31-40	PROPRIETARY	No PEL established
Orthophosphoric acid	1-10	7664-38-2	1 mg/m3 TWA

III. HAZARDS IDENTIFICATION

Routes of Entry: Absorption., Ingestion., Contact., Inhalation and skin.
Medical Conditions Aggravated: Respiratory disease including asthma and bronchitis. No medical conditions affected by exposure. Eye disease. Skin disease including eczema and sensitization.

Immediate (Acute) Health Effects

Inhalation: Can cause severe respiratory irritation. Can be corrosive to the respiratory tract causing severe irritation and tissue damage.

Skin Contact: Contact causes severe skin irritation and possible burns. Corrosive to skin tissue. Can cause chemical burns.

Eye Contact: Corrosive. Will cause eye burns and permanent tissue damage. Corrosive to eye tissue. Can cause severe irritation, tearing, and burns that can quickly lead to permanent injury including blindness.

Skin Absorption: Harmful if absorbed through the skin. May cause severe irritation and systemic damage. No absorption hazard in normal industrial use.

Ingestion: Corrosive to tissue. Can cause severe and permanent damage to mouth, throat, stomach. Aspiration may lead to lung damage.

Target Organ Acute Toxicity:

n-Butyl alcohol eyes, CNS, skin, respiratory system
Phosphoric acid skin, eyes, respiratory system

Long-Term (Chronic) Health Effects:

Carcinogenicity: None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Inhalation: Upon prolonged and/or repeated exposure, can be corrosive to the respiratory tract causing severe irritation and tissue damage.

Skin Contact: Prolonged skin contact causes burns. Upon prolonged or repeated contact, corrosive to skin tissue. Can cause chemical burns.

Eye Contact: Upon prolonged or repeated contact, may become corrosive to eye tissue. Can cause severe irritation, tearing, and burns that can lead to permanent injury including blindness.

Skin Absorption: Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.

Target Organ Chronic Toxicity: Respiratory Tract. Eyes. Skin. Eyes. Skin.

Supplemental Health Hazard Information: No additional health information available.

IV. FIRST AID

Inhalation: Remove to fresh air. If breathing becomes difficult, give oxygen and get medical attention. Remove to fresh air. Get medical attention immediately. Have a trained individual administer humidified oxygen. If not breathing, give artificial respiration. Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Eyes: Flush eye with water for 20 minutes. Get medical attention. Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention. Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. This corrosive material can cause immediate and permanent eye damage. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with mild soap and water. If irritation occurs get medical attention. If clothing is contaminated, remove and wash before reuse. Wash with soap and water under a drench shower. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.

Ingestion: Drink 3-4 glasses of water and DO NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention. Do not induce vomiting. Give milk or water. Get immediate medical attention. Careful evacuation of stomach by medical personnel imperative. Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS. Corrosive. Do not induce vomiting! Drink one glass of water followed by milk if available. Seek medical attention immediately and give the medical care provider this MSDS.

Notes to MD: No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point: 24 (CALC.) °F

Fire Hazards: Strong oxidizer. Contact with other combustible material can cause fire.

Extinguishing Media: Alcohol foam Dry chemical

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

VI. ACCIDENTAL RELEASE MEASURES

Health Consideration for Spill Response: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Spill Mitigation Procedures General Methods: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

VII. HANDLING AND STORAGE

Handling: Do not get in eyes, on skin and clothing. Avoid breathing material. Wash thoroughly after handling. Avoid contact with material. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse. Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area.

Storage: Keep container closed when not in use. Store away from heat. Prevent contact with moisture. Moisture will impact product performance. Vent container carefully, periodically, as needed to relieve pressure. Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls: Facilities storing or using this material should be equipped with an eyewash and safety shower. Local exhaust ventilation, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure.

Protective Equipment

Respiratory Tract: Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage should be implemented.

Eyes: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

IX. PHYSICAL DATA

Physical State:	CLEAR LIQUID
Odor:	STRONG SOLVENT
Solids Vol %:	25.0226
Solids Wt %:	36.55
Material VOC lbs/gal:	5.064
Material VOC gms/l:	608.1417
Coatings VOC lbs/gal:	5.064
Coatings VOC gms/l:	608.1417
Weight per gallon:	7.9993

X. STABILITY AND REACTIVITY

Stability Information: Stable under normal conditions.

Conditions to Avoid: Contamination. None known.

Chemical Incompatibility: Acids. Acetic anhydride. Peroxides. Oxidizing materials. Strong oxidizing agents. Strong alkalis. Metals.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
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sec-Butyl alcohol	78-92-2	Inhalation LC50 Rat : 8000 ppm/4H; Oral LD50 Rat : 790 mg/kg; Oral LD50 Mouse : 2680 mg/kg; Dermal LD50 Rabbit : 3400 mg/kg
Phosphoric acid	7664-38-2	Inhalation LC50 Rat : >850 mg/m3/1H; Oral LD50 Rat : 1530 mg/kg; Dermal LD50 Rabbit : 2740 mg/kg

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): No data available. This material is not expected to be harmful to the ecology.

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: Spent or discarded material is a hazardous waste.

Disposal Methods: Comply with all Local, State, Federal, and Provincial Environmental Regulations. Dispose of by incineration following Federal, State, Local, or Provincial regulations.

Potential EPA Waste Codes: If discarded, this product is considered a RCRA ignitable waste, D001.

Components Subject to USEPA Land Disposal Restrictions:

n-Butyl alcohol	78-92-2	63.45 %
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XIV. TRANSPORTATION INFORMATION

DOT PAINT RELATED MATERIAL, 3, UN 1263, II
See 49CFR 172.101 for Special Provisions, Packaging, and Quantity Limitations.

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
sec-Butyl alcohol	SARA 313 Reportable:	78-92-2	63.45
Phosphoric acid	SARA 313 Reportable:	7664-38-2	2.92
butanol	New Jersey Right To Know:	78-92-2	63.45
organic acid phosphate	New Jersey Right To Know:	PROPRIETARY	33.63
Orthophosphoric acid	New Jersey Right To Know:	7664-38-2	2.92

XVI. ADDITIONAL INFORMATION

Other Information: IMPORTANT: WHILE THE DESCRIPTIONS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU PERFORM AN ASSESSMENT TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION SET FORTH. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, OR DATA PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, THE DESCRIPTIONS, DATA AND INFORMATION FURNISHED HEREUNDER ARE GIVEN GRATIS. NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DATA AND INFORMATION GIVEN ARE ASSUMED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

MSDS glossary.