



AMBRANDS  
2030 Powers Ferry Road, Suite 370  
Atlanta, GA 30339

MATERIAL SAFETY DATA SHEET

CAS NO. 81335-47-9  
DATE: 5/3/10

EMERGENCY TELEPHONE: 800-265-0761

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**PRODUCT IDENTIFICATION**      TRADE NAME: IMAGE® HERBICIDE CONSUMER CONCENTRATE (3.3%)  
SYNONYMS: Ammonium salt of  
2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-quinoline carboxylic acid;  
Ammonium Salt; Imazaquin.  
CHEMICAL FAMILY: Imidazolinone  
MOLECULAR FORMULA: C<sub>17</sub>H<sub>16</sub>N<sub>3</sub>O<sub>3</sub>.NH<sub>4</sub>  
MOLECULAR WEIGHT: 328.370  
USAGE: Herbicide

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**WARNING STATEMENTS**      CAUTION! Keep out of reach of children.  
Avoid contact with eyes and skin.

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INGREDIENTS	COMPONENT	CAS. NO.	%	PEL/TLV
	Ammonium Hydroxide	1336-21-6	1.50	None Established
	Imazaquin Technical	081335-37-7	3.38	5 mg/m <sup>3</sup>
	Inerts		95.12	

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REFERENCE: Ammonium Hydroxide      None  
Imazaquin Technical      American Cyanamid 1988  
Inerts

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**PHYSICAL PROPERTIES**      APPEARANCE AND      Dark brown liquid  
ODOR:      Slight  
BOILING POINT:      Not available  
VAPOR PRESSURE:      Not available  
DENSITY:      1.015 g/mL  
VAPOR DENSITY:      Not available  
% VOLATILITY (BY 97% VOL.)  
PH:      7.03  
EVAPORATION RATE:      Not available  
SOLUBILITY IN WATER:      Miscible  
VISCOSITY:      2.9 CP  
FREEZING POINT:      Not available

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**FIRE AND EXPLOSION HAZARD INFORMATION**      FLASH POINT:      >215°F  
DECOMPOSITION TEMP: Not available  
FIRE EXTINGUISHING MEDIA:  
This material will not burn or burns with difficulty. Use an extinguishing agent suitable for surrounding fires.

**FIRE CONTROL TACTICS:**

Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing.

Keep unnecessary people away. Use as little water as possible. Dike area of fire to prevent material run-off.

Use spray or fog - solid stream may cause spreading.

Do not decontaminate personnel or equipment, or handle broken packages or containers without protective equipment as specified in the Exposure Control Section.

Decontaminate emergency personnel with soap and water before leaving the fire area.

Avoid breathing dusts, vapors and fumes from burning materials. Control run-off water - if water enters a drainage system, advise the authorities downstream.

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**NFPA HAZARD RATING**

NFPA Rating Not Assigned

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**REACTIVITY DATA**

**STABILITY** Temperatures > 100°F

**CONDITIONS TO AVOID:**

**INCOMPATIBLE** Oxidizing agents

**MATERIALS:**

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**HEALTH HAZARD INFORMATION**

**TOXICITY DATA AND**

**EFFECTS OF OVEREXPOSURE:**

**ACUTE TOXICITY DATA:**

There is no toxicity data on this formulation. Information presented below represents data from a similar formulated material.

The acute oral LD<sub>50</sub> in rats for the combined sexes was shown to be > 5000 mg/kg b.w., indicating that the material is relatively non-toxic by ingestion in single doses.

The acute dermal LD<sub>50</sub> in rabbits for the combined sexes was > 5000 mg/kg b.w., indicating that the product is relatively non-toxic by dermal contact in single doses. The product is mildly irritating to the skin of rabbits. Liquid splashed into the eyes may produce local irritation.

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**CHRONIC TOXICITY DATA:**

There is no chronic toxicity data available for this product. Imazaquin is not listed as a carcinogen by IARC., OSHA or NTP.

**EMERGENCY AND FIRST AID PROCEDURES:**

**IF SWALLOWED:** Drink two glasses of water. Induce vomiting by touching back of throat with fingers.

**IF IN EYES:** Hold eye open and flush with water for 15-20 minutes. Remove contacts, if present, after first 5 minutes, then continue rinsing eye. Get medical attention if irritation occurs.

**IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Get medical attention if irritation persists.

**IF INHALED:** Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call poison control center or a doctor for further treatment advice.

**NOTES TO PHYSICIAN:**

There is no specific antidote for exposure to this material. Treatment of overexposure should be directed at the control of symptoms and the clinical condition. Toxicology studies have shown the material to be of very low acute toxicity.

**MEDICAL CONDITION AGGRAVATED BY OVEREXPOSURE:**

A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical conditions.

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<b>EXPOSURE CONTROL METHODS</b>	During the formulation of this product, wear rubber gloves, goggles, and protective clothing while handling. Wash thoroughly with soap and water after handling. Ventilation is not required under normal use conditions. For end-users refer to product label for PPE/clothing if appropriate.
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<b>SPILL OR LEAK PROCEDURES</b>	<p>Wear appropriate clothing and personal protective equipment (See "Exposure Control".)</p> <p>Keep away from drains, surface and ground water, and soil. Dike spill area to prevent spill from spreading. Absorb the spilled material with an inert absorbent such as granular clay or sawdust. Shovel or sweep the absorbed spill into covered containers for proper disposal. (See "Waste Disposal".)</p> <p>Rinse the spill area and any tools or implements several times with soapy water. Contain and absorb this rinsate with inert absorbents and place into the same covered container as the spilled material.</p> <p>Spills to the soil can be shoveled directly into covered containers for disposal. If the spill occurred to a body of water, immediately notify the appropriate authorities downstream of the spill so that they can decide what if any further action is needed.</p> <p>Depending on local spill reporting requirements and the amount released to the environment, it may be necessary to notify the regulatory authorities.</p>
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<b>WASTE DISPOSAL</b>	To avoid disposal, all attempts should be made to use this product completely, in accordance with its registered use. If this is not possible, handle with care and dispose in a safe manner. Empty containers or liners may retain some product residues. DO NOT REUSE. Rinse the container or liner as needed for disposal. Render it unusable by crushing or puncturing. Dispose of the container and any rinsate in a safe manner. Follow all applicable community, national or regional regulations regarding waste management methods.
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<b>SPECIAL PRECAUTIONS</b>	<p><b>HANDLING AND STORAGE:</b></p> <p>Do not store below 32°F.</p> <p>If the product becomes crystalline, store at room temperature to thaw. Shake well before using.</p> <p>Do not contaminate water, food, or feed by storage or disposal. Store in a secure, dry, well-ventilated separate room, building or covered area. Not for use or storage in or around the home.</p>
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Keep away from sources of ignition and protect from exposure to fire and heat.  
Segregate from oxidizers and incompatible materials listed in the Reactivity Data Section.

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**ADDITIONAL REGULATORY INFORMATION**

SARA Title III Data

Section 311 and 312 Hazard Categories

Immediate Health Hazard - Y	Reactive Hazard - N
Delayed Health Hazard - N	Sudden Pressure - N
	Release Hazard
Fire Hazard - N	

Section 302 Extremely Hazardous Substances - None

Section 313 Toxic Chemicals - None

CERCLA Reportable Quantity

IMAGE® CONSUMER CONCENTRATE (3.3%) - This product has a CERCLA RQ of 1,000,000 pounds (118,000 gal) based on sodium phosphate dibasic. The RQ for pure sodium phosphate dibasic is 5,000 pounds.

This product does not have an EHS (extremely hazardous substance) RQ.

RCRA Hazardous Waste Code(s) And Statement(s)

IMAGE® CONSUMER CONCENTRATE (3.3%) - None.

This product does not have any listed hazardous waste codes. It is the responsibility of the waste generator to determine at the time of disposal whether any characteristic hazardous waste codes apply.

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APPENDIX

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

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SOURCE AND DATE INFORMATION

DATE: 5/3/10

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