



MATERIAL SAFETY DATA SHEET

Moisture Eater II™

Section 1 • Product and Company Identification

Supplier's Contact Information:

AB Chance Co.
Centralia, Missouri
573-682-5521

Part Number(s): C400-2551, C400-2364, C400-2538

Chemical Family: Ketone / terpene mixture

Trade Name: Moisture Eater II™

Manufacturer's Contact Information:

Telephone Number: 770-243-8808
Emergency Telephone Number:
1-800-424-9300 Chemtrec;
Outside U.S.: (703) 527-3887

Section 2 • Hazards Identification

Moisture Eater II™ is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Emergency Overview: WARNING: Combustible liquid and vapor. Prolonged or repeated contact may dry skin and cause irritation. May cause eye irritation. Harmful or Fatal if Swallowed. Can enter lungs and cause damage.

Primary route(s) of entry: Skin and Eye contact. Inhalation.

Potential Acute Health Effects:

Eyes Irritating to eyes

Skin Repeated exposure may cause skin dryness or cracking.

Inhalation: Excessive inhalation of vapors can cause irritation of the respiratory tract, nausea, dizziness or headache.

Ingestion: Product has a low order of acute oral toxicity, but ingestion of large quantities may cause nausea, vomiting, and gastrointestinal irritation. May cause injury if aspirated into lungs.

Potential Chronic Health Effects:

Carcinogenic Effects: NTP: No IARC: No OSHA: No

Mutagenic Effects: None

Teratogenic Effects: None

Medical conditions aggravated by exposure: Persons with pre-existing central nervous system (CNS) disease, neurological conditions, skin disorders, chronic respiratory diseases, or impaired liver or kidney function should avoid exposure.



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Signs and Symptoms

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects. Other symptoms of exposure may also include stomach or intestinal upset (nausea, vomiting, and diarrhea), irritation (nose, throat, and airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects.

Section 3 • Composition / Information on Ingredients

Component	CASRN	Percent by Weight
Diacetone Alcohol	123-42-2	60 – 80%
d-Limonene	5989-27-5	20 – 40 %

Section 4 • First Aid Measures

- Eyes:** Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Do not use eye ointment. Seek medical attention immediately.
- Skin:** Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. Do not use ointments. Seek medical attention if irritation persists.
- Inhalation:** Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention immediately.

Section 5 • Fire Fighting Measures

Flammable limits: LOWER: 1.8% UPPER: 7.2%

Products of Combustion: Carbon monoxide and carbon dioxide.

Firefighting media: SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam.

Sensitivity to Impact: None. **Sensitivity to Static Discharge:** None

Protection Clothing (Fire): Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles.

Special Remarks on Explosion Hazards: None.



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Section 6 • Accidental Release Measures

Small Spill and Leak: Eliminate ignition sources. Absorb with an inert material and dispose of properly.

Large Spill and Leak: Eliminate ignition sources, secure the area and control access. Dike far ahead of a liquid spill to ensure complete collection. Pick up free liquid for disposal using absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal.

Clean-Up Procedures: Ventilate area of leak or spill. Keep unnecessary and unprotected people away. Recover free product and place in suitable container for disposal.

Section 7 • Handling and Storage

Handling: After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation. Avoid breathing vapors.

Storage: Store in a cool, well-ventilated area. Avoid all sources of ignition (spark or flame). Store below 54°C (130°F).

Precautions to be taken in handling and storage: Keep away from heat sources, open flames and other ignition sources.

Section 8 • Exposure Controls / Personal Protection

Ingredients	CASRN	OSHA PEL-TWA	OSHA STEL	ACGIH-TLV	ACGIH-STEEL	NIOSH REL
Diacetone alcohol	123-42-2	50 ppm (240 mg/m3)	Not Established	50 ppm	Not Established	TWA 50 ppm (240 mg/m3)
d-Limonene	5989-27-5	Not Established	Not Established	Not Established	Not Established	Not Established

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal Protection:

Eyes: None required under conditions of intended use. If splashes are anticipated, use safety goggles.

Respiratory : Use organic vapor cartridge type respirator if ventilation is inadequate.

Hands: Use neoprene gloves.

General Hygiene Considerations: Wash thoroughly after handling.



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Section 9 • Physical and Chemical Properties

Appearance: Clear, colorless liquid (part #68400 is an impregnated white cloth)

Odor: Fragrant, slight orange

Solubility: >50% miscible in water (liquid)

Specific Gravity: 0.89 @ 20°C/68°F (liquid)

pH: Not applicable

VOC Content: 890 g/L (liquid)

Flash point: CLOSED CUP: 44°C (112°F). (Tagliabue.)

Autoignition Temperature: Not established

% Volatiles @ 21°C (70°F): 100 (liquid)

Boiling Range: 135 - 177°C (275 - 350°F) @ 760 mm Hg (liquid)

Melting Point: Not determined

Vapor Density (Air=1): 4.2

Vapor Pressure (mm Hg): <1 @ 20°C/68°F

Evaporation Rate (BuAc=1): Not determined

Section 10 • Stability and Reactivity

Chemical Stability: The product is stable under recommended storage conditions.

Conditions to Avoid: Keep away from heat and ignition sources. Exposure to direct sunlight for extended periods.

Temperatures in excess of 54°C (130°F).

Incompatibility: Extremely reactive or incompatible with oxidizing agents.

Hazardous decomposition products: Combustion will generate smoke, possibly thick and choking, resulting in zero visibility. Combustion products are carbon oxides (CO, CO₂).

Hazardous polymerization: Will not occur.

Section 11 • Toxicological Information

Acute and Chronic Toxicity

General Product Information

Following exposure to vapors, this material can produce central nervous system depression. High atmospheric concentrations can result in eye, nasal and respiratory tract irritation. However, if handled in accordance with good industrial hygiene practice, this product will not present a significant hazard in the workplace. An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

Ingredients	CASRN	LC-50	LD-50
Diacetone alcohol	123-42-2	7100 mg/m ³ (inhalation, rat)	4000 mg/kg (oral, rat) 4600 mg/kg (oral, rabbit) 13,500 mg/kg (dermal, rabbit)
d-Limonene	5989-27-5	Not established	4400 mg/kg (oral, rat) >5000 mg/kg (dermal, rabbit)



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Section 12 • Ecological Information

Mobility: Semi-volatile. Readily absorbed into soil. **Persistence and degradability:** Biodegradable.

Bioaccumulative potential: None known. **Other adverse effects:** None known.

Component	CASRN	Test	Species	Results
Diacetone alcohol	123-42-2	4-day LC50	Lepomis macrochirus	420,000 ug/L
		24 hr LC50	Daphnia magna	9,000,000 ug/L
d-Limonene	5989-27-5	4-day LC50	Oncorhynchus mykiss	35,000 µg/L
		4-day LC50	Pimephales promelas	966,000 ug/L

Section 13 • Disposal Considerations

Waste Status: This material, as sold, contains solvents that meet the RCRA definition of ignitable waste (D001).

Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.

Section 14 • Transport Information

Mode	Shipping Name	Hazard Class	Subclass	UN Number	Technical Name	Hazard Label	Packing Group
D.O.T. Ground	Not regulated	NA	NA	NA	NA	NA	NA
IATA	Flammable liquid, n.o.s.	3	NA	1993	Diacetone alcohol, d-Limonene	Flammable Liquid	III
IMDG (Regular)	Flammable liquid, n.o.s.	3	NA	1993	Diacetone alcohol, d-Limonene	Flammable Liquid	III

Section 15 • Regulatory information

U.S. Federal Regulations: **TSCA 8(b) inventory:** All of the ingredients are listed on the TSCA inventory or are exempt.

RCRA Hazardous Waste No.: To be determined by end-user.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR part 370)
Reportable Quantity: None

SARA TITLE III Sections 311/312 hazardous Categorization (40 CFR part 370): Fire Hazard, Immediate (Acute) Health Hazard

SARA TITLE III Section 313: None

Hazardous Air Pollutants (U.S. EPA): None



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State Regulations: New Jersey RTK: Diacetone alcohol (CASRN: 123-42-2), d-Limonene (CASRN: 5989-27-5)
California Proposition 65: None.
California and OTC States: This product is not regulated by consumer regulations.

Canadian Regulations:

Canadian Environmental Protection Act: All of the components of this product are included on the Canadian Domestic Substances list (DSL).

Canadian Workplace Hazardous Materials Information System (WHMIS): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification: B3, D2B

WHMIS Symbols:



Section 16 • Other Information

MSDS Author: Ed Williams	HMIS 1996		NFPA	
	Health:	1	flammability	
	Flammability:	2		
	Reactivity:	0		

Notice to Reader:
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Manufacturer:
LPS Laboratories
A division of Illinois Tool Works

Form # 3529