



MSDS FOR MOLD CONTROL 500

PLEASE NOTE THERE ARE FOUR SEPARATE SETS OF MSDS: ONE FOR EACH OF THE COMPONENTS AND ONE FOR THE MIXTURE.

PART A

PART B

PART A&B MIXTURE

PROPELLANT

**For Indoors
& Outdoors**

MATERIAL SAFETY DATA SHEET

Distributed By:
Scott's Liquid Gold-Inc.
4880 Havana Street
Denver, CO. 80239

PHONE: 303-373-4860
MSDS DATE: 03-02-06
REPLACES: 10-23-01

IDENTIFICATION

PRODUCT NAME: Mold Control 500 Part A
COMPOSITION: Mixture of cationic detergents and fatty alcohols

ACTIVE INGREDIENTS:	%	OSHA PEL ACGIH
Quaternary Ammonium Compounds, Benzyl-C12-18 Alkyl Dimethyl (CAS 68391-01-5)	3.2	Not Established
INERT INGREDIENTS	96.8	
TOTAL	100.00	

PHYSICAL DATA

APPEARANCE: clear straw liquid	SOLUBILITY IN WATER: Complete
ODOR: Sweet	SPECIFIC GRAVITY: 0.99
EVAPORATION RATE: 1 (water=1)	pH of CONCENTRATE: 9.3
VAPOR PRESSURE: Unknown	BOILING POINT: 212° F.

FIRE AND EXPLOSION DATA

FLAMMABILITY:	Not flammable
EXTINGUISHING MEDIA:	Water, Carbon Dioxide, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS:	NONE KNOWN

HEALTH HAZARD DATA

EYE EFFECT: Contact with eyes may cause severe irritation, prolonged eye contact may cause permanent damage.

SKIN EFFECT: Prolonged contact with eyes may cause irritation or burns.

INGESTION: If swallowed, consult a physician can cause severe damage to mucous membranes.

INHALATION: No effect known.

CARCINOGENICITY: This product (or components of its mixture) is not listed in IARC Monographs, the NTP Sixth Annual Report or the current ACGIH TLV's as a carcinogen or potential carcinogen.

EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: Flush eye with cool running water for at least 15 minutes. If redness or irritation develops get medical attention.

SKIN CONTACT: Flush with cool running water or wash with soap and water. If irritation develops get medical attention.

INGESTION: If conscious, induce vomiting give several glasses of water or milk. Get medical attention.

BREATHING: Move to fresh air. If breathing becomes heavy seek medical attention

SPECIAL PROTECTION INFORMATION

PROTECTIVE GLOVES: Recommended (rubber or PVC),
EYE PROTECTION: Recommended (goggles, safety glasses), they should always be worn
LOCAL EXHAUST: Recommended
OTHER EQUIPMENT: None required

REACTIVITY DATA

INCOMPATIBLE MATERIALS: Strong Oxidizers, Anionic materials
STABILITY: Product is stable
POLYMERIZATION: Will not occur
DECOMPOSITION PRODUCTS: May give off nitrous oxides and ammoniacal vapors during a fire.

SPILL OR LEAK PROCEDURES

SPILL: Contain all spills and leaks to prevent discharge into the environment. Soak up with an absorbent, shovel into waste containers, flush with water.

DISPOSAL: Remove material or dispose of (incineration is preferred) in accordance with all applicable federal, state and local regulations. Material collected with absorbent may be disposed of in a permitted landfill in accordance with federal, state and local regulations.

ADDITIONAL INFORMATION

SARA requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372. This Information must be included in all MSDS's that are copied and distributed for this material.

Components present in this product at a level, which could require reporting under the statute:

NONE

MATERIAL SAFETY DATA SHEET

Distributed By:
Scott's Liquid Gold-Inc.
4880 Havana Street
Denver, CO 80239

PHONE: 303-373-4860
MSDS DATE: 03-02-06
REPLACES: 6-10-98

IDENTIFICATION

PRODUCT NAME: Mold Control 500 Part B
COMPOSITION: Hydrogen peroxide, water and inert ingredients.

HAZARDOUS INGREDIENTS:	%	TLV LIMIT IN AIR
Hydrogen Peroxide (7722-84-1)	7.99	1 ppm
Inert Ingredients	92	N/A
Total	100	

PHYSICAL DATA

APPEARANCE: Colorless liquid	ODOR: Odorless
SOLUBILITY: Soluble	BOILING POINT: 108° C (226° F)
MELTING POINT: -33	VAPOR DENSITY: Not Available
VAPOR PRESSURE: 23.3 MM HG @ 30° C	SPECIFIC GRAVITY: 1.1 g/cm ³ (H ₂ O=1)
EVAPORATION RATE: above 1	

FIRE AND EXPLOSION DATA

FLASH POINT: Non- Flammable
EXPLOSION: Not considered an explosion hazard.
FIRE EXTINGUISHING MEDIA: Water. Evacuate enclosed and surrounding areas. If smoke and fumes. Cannot be avoided, use proximity suit and self-contained breathing apparatus. Use water spray to cool containers and disperse vapors. Keep spills away from sources of ignition.
SPECIAL INFORMATION: Heating may cause explosion.

HEALTH HAZARD DATA

- ◆ Vapor irritating to the eyes and respiratory tract.
- ◆ Do not get in eyes, on skin, or on clothing.
- ◆ Avoid breathing mist.
- ◆ Wash thoroughly after handling.
- ◆ Store in tightly closed container.
- ◆ Combustible Liquid and Vapor

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: If inhaled remove to fresh air. Give oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Call a physician immediately.

INGESTION: If swallowed, do not induce vomiting. Give victim a glass of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

SKIN CONTACT: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminating clothing. Call a physician immediately.

EYE CONTACT: In case of contact, immediately flush under upper and lower eye lids with plenty of water for at least 15 minutes. Call a physician immediately.

CHRONIC EXPOSURE: No chronic effects are known for humans.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	Atmospheric levels should be maintained below the exposure limits Listed in Section III by using engineering controls. If not feasible, Use approved full facepiece air-purifying respirator.
VENTILATION SYSTEM:	Provide general and/or local exhaust ventilation to maintain airborne levels below the exposure limits in Section III. Refer To "Industrial Ventilation" by ACGIH for a manual of recommended practices.
SKIN PROTECTION:	If skin or contamination of clothing is likely, protective clothing Should be worn.
EYE PROTECTION:	Chemical goggles are required.
PROTECTIVE GLOVES:	Wear chemical resistant gloves.

REACTIVE DATA

STABILITY:	Stable at normal tempetures and condition of storage.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxygen which supports combustion.
HAZARDOUS POLYMERIZATION:	Will not undergo hazardous polymerization.
INCOMPATIBILITIES:	Heavy metal ions, alkalis, and combustible materials.

SPILL OR LEAK PROCEDURES

SPILL:	See Section V and VI for hazards and exposure controls. Dike with sand or earth to contain spill. Avoid ignition sources. Absorb with sand to other non-flammable material and transfer to approve DOT drum for recovery or disposal.
DISPOSE	Dispose of in accordance with all local, state and federal regulations.
GENERAL:	CERCLA/SARA requires notification to the appropriate Federal state and local authorities of releases of hazardous or extremely hazardous quantities equal to or greater than the Reportable Quantities (RQs) in 50 CFR 302.4 and 40 CFR 355. SARA Title 313 requires submissions of annual reports of releases of toxic chemicals that appear in 40 CFR 372. Components present in this product at a level which could require reporting under statute are listed in Section XII.

MATERIAL SAFETY DATA SHEET

DISTIBUTED BY:
Scott's Liquid Gold-Inc
4880 Havana St.
Denver, CO 80239

PHONE: 303-373-4860
MSDS DATE: 03-02-06
REPLACES: 09-15-00

IDENTIFICATION

PRODUCT NAME: Mold Control 500 Mixture Part A & B
COMPOSITION: Mixture of cationic detergents and peroxide

ACTIVE INGREDIENTS:	%	OSHA PEL ACGIH
N,N,N,N',N'-Pentamethyl,N'-Tallow Alkyl 1,3-Propanamine Diammonium Chloride; n-Tallow Pentamethyl Propane (CAS 68607-29-4)	0.5	Not Established
Quaternary Ammonium Compounds, Benzyl-C12-18 Alkyl Dimethyl (CAS 68391-01-5)	1.6	Not Established
Isopropyl Alcohol (CAS 67-63-0)	0.5	400 PPM
Hydrogen Peroxide (CAS 007722-84-1)	4.0	1.4mg/m ³
INERT INGREDIENTS	<u>93.4</u>	
TOTAL	100.00	

PHYSICAL DATA

APPEARANCE: clear liquid	SOLUBILITY IN WATER: Complete
ODOR: Sweet	SPECIFIC GRAVITY: 1.01
EVAPORATION RATE: 1 (water=1)	pH of CONCENTRATE: 9.7-9.8
VAPOR PRESSURE :Unknown	BOILING POINT: 212° F.

FIRE AND EXPLOSION DATA

FLAMMABILITY:	Not flammable
EXTINGUISHING MEDIA:	Water, Carbon Dioxide, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS:	NONE KNOWN

HEALTH HAZARD DATA

EYE EFFECT: Contact with eyes may cause severe irritation, prolonged eye contact may cause permanent damage.
SKIN EFFECT: Prolonged contact with eyes may cause irritation or burns.
INGESTION: If swallowed, consult a physician can cause severe damage to mucous membranes.
INHALATION: No effect known.
CARCINOGENICITY: This product (or components of its mixture) is not listed in IARC Monographs, the NTP Sixth Annual Report or the current ACGIH LTV's as a carcinogen or potential carcinogen.

EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: Flush eye with cool running water for at least 15 minutes lifting eyelids occasionally. Get medical Attention if redness or irritation develops.
SKIN CONTACT: Flush with cool running water. If irritation develops get medical attention.

INGESTION: If conscious, give several glasses of water or milk. Get medical attention immediately.
BREATHING: Move to fresh air. If breathing becomes heavy seek medical attention

SPECIAL PROTECTION INFORMATION

PROTECTIVE GLOVES: Recommended (rubber or PVC)
EYE PROTECTION: Recommended (goggles, safety glasses or face shield)
LOCAL EXHAUST: Recommended when used in a confined space
OTHER EQUIPMENT: None required

REACTIVITY DATA

INCOMPATIBLE MATERIALS: Strong Oxidizers, Anionic materials
STABILITY: Product is stable
POLYMERIZATION: Will not occur
DECOMPOSITION PRODUCTS: May give off nitrous oxides and ammoniacal vapors during a fire.

SPILL OR LEAK PROCEDURES

SPILL: Contain all spills and leaks to prevent discharge into the environment. Soak up with an absorbent, shovel into waste containers, flush with water.

DISPOSAL: Remove material or dispose of (incineration is preferred) in accordance with all applicable federal, state and local regulations. Material collected with absorbent may be disposed of in a permitted landfill in accordance with federal, state and local regulations.

When disposing of the used material after deployment it is acceptable to flush this material down the drain. This material is active for a period of 8 hours when flushing it to the drain it is recommended to allow the material to fully decompose or excessive foaming in the sewer may result.

ADDITIONAL INFORMATION

SARA requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372. This Information must be included in all MSDS's that are copied and distributed for this material.
Components present in this product at a level, which could require reporting under the statute, are:
NONE

Material Safety Data Sheet

Distributed By:
Scott's Liquid Gold-Inc.
4880 Havana Street
Denver, CO. 80239

PHONE: 303-373-4860
MSDS DATE: 03-02-06
REPLACES: 10-23-01

IDENTIFICATION

PRODUCT NAME: Mold Control 500 Propellant Cartridge

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identification

CAS : Number: 75-37-6 100
CAS Name: ETHANE, 1,1-DIFLUORO
Formula: CH3CHF2
Company MSDS Number: TECHVN988

Company Identification: Techven (USA) LLC
16 Bayside
Irvine, CA 92614-7987

Phone Numbers

Product Information: 1-949-653-8936
Transport Emergency: 1-800-424-9300 (CHEMTREC)
Medical Emergency: 1-800-424-9300 (CHEMTREC)

COMPOSITION AND INFORMATION OF INGREDIENTS

Ingredients

Ingredient Sequence Number: 01
Ingredient Name: Ethane, 1,1-Difluoro-(HFC – 152a)
CAS Number: 75-37-6
Percentage: 100%

HEALTH HAZARDS

Potential Health Effects

Inhalation of HFC-152a concentration of vapor is harmful and may cause nonspecific discomfort such as nausea, headache or weakness, or temporary nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness. Contact with the liquid may cause frostbite. Higher exposures may lead to irritation of nose, throat, and lungs with cough, difficulty breathing or shortness of breath, temporary alteration of the heart's electrical activity with irregular pulse, palpitations, or inadequate circulation, or abnormal kidney function as detected by laboratory tests. Gross overexposure may be fatal. Vapor reduces oxygen available for breathing and is heavier than air.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID

INHALATION

If high concentrations are inhaled, immediately remove to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Treat for frostbite if necessary, by gently warming affected area.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

Not considered as a likely exposure.

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point :	-25 C (-13 F)
Vapor Pressure :	87 psia at 25 deg C (77 deg F)
Vapor Density :	2.4 (Air = 1.0) at 25 deg C (77 deg F)
% Volatiles :	100 WT%
Solubility in Water :	0.28 WT% @ 25 C (77 F) (87 psia)
Odor :	Slight ethereal
Form :	Gas
Color :	Clear, colorless
Density :	0.90 g/cc at 25 deg C (77 deg F) – Liquid

CHEMICAL STABILITY AND REACTIVITY

Chemical Stability

Material is stable. However, avoid open flames and high temperatures.

Incompatibility with Other Materials

Incompatible with alkali or alkaline earth metals- powdered Al, Zn, Be, etc.

Polymerization

Polymerization will not occur.

Decomposition :

Decomposition products are hazardous. This material can be decomposed by high temperatures (open flames, glowing metal surfaces, etc.) forming hydrofluoric acid and possibly carbonyl fluoride.

FIRE HAZARDS

Flammable Properties

Flash Point : <-50 C (<-58 F)
 Flammable limits in Air, % by Volume
 LEL : 3.9
 UEL : 16.9
 Autoignition : 454 C (849 F)

Fire and Explosion Hazards:

Flammable. Cylinders are equipped with temperature and pressure relief devices but may still rupture under fire conditions.

Extinguishing Media

Water Spray, Water Fog, Dry Chemical. Carbon dioxide. (CO2) "Alcohol" foam.

Fire Fighting Instructions

Keep container cool with water spray. If gas exiting container ignites, stop flow of gas. Do not put out the fire unless leak can be stopped immediately. Self-contained breathing apparatus (SCBA) is required if containers rupture and contents are released under fire conditions.

HANDLING AND STORAGE**Handling (Personnel)**

Avoid breathing high concentrations of vapors and avoid liquid contact with skin or eyes. Use with sufficient ventilation to keep employee exposure below recommended limits. Lines and equipment which will contain HFC-152a, Aerosol Propellant should be pretested with nitrogen using soapy water to detect leaks.

Storage

Clean, dry area. Do not heat above 52 deg C (125 deg F).

EXPOSURE CONTROL AND PERSONAL PROTECTION**Engineering Controls**

Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical exhaust should be used in low or enclosed places. Ground all equipment and cylinders before use. Use explosion-proof electrical equipment rated Class I, Group D in Division 1 locations. In Division 2 locations, all spark-producing electrical equipment must be explosion-proof and rated Class I, Group D.

Personal Protective Equipment

Impervious gloves and chemical splash goggles should be worn when handling the liquid. Fire protective clothing (NOMEX) with antistatic control should be worn when handling this product. Under normal manufacturing conditions, no respiratory protection is required when using this product. Self-contained breathing apparatus (SCBA) is required if a large release occurs.

Exposure Guidelines

Exposure Limits 152a AEROSOL PROPELLANT

PEL (OSHA) : None Established
TLV (ACGIH) : None Established
WEEL (AIHA) : 1000 ppm, 8 Hr. TWA

ACCIDENTAL RELEASE

Safeguards (Personnel)

Review "FIRE HAZARDS" and "HANDLING AND STORAGE" and EXPOSURE CONTROL AND PERSONAL PROTECTION" sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Accidental Release Measures

If a spill can cause a concentration in excess of 1,000 ppm, of HFC-152a, turn off valves and ignition sources. Evacuate area. Ventilate area, especially low places where heavy vapors might collect. Wear self-contained breathing apparatus (SCBA).
If this product is spilled and not recovered, or is recovered as a waste for treatment or disposal, the CERCLA Reportable Quantity is 100 lbs. (Release of an unlisted Hazardous Waste characteristic of ignitability).

TOXICOLOGY DATA

Animal Data

Oral ALD: >1500 mg/kg in rats
Inhalation ALC, 4 hr: 383,000 ppm in rats

This material is untested for skin and eye irritability, and for animal sensitization.

Test in animal demonstrate no carcinogenic activity or development effects.

Tests in animals for reproductive effects have not been performed. This material does not produce genetic damage in bacterial cell cultures, but has not been tested in animals.

Effects in animals from single, high exposure by inhalation include labored breathing, lung irritation, lethargy, lack of coordination and loss of consciousness. Effects of repeated exposure include increased urinary fluorides, reduced kidney weight, and reversible kidney changes.

The effects of a single, high oral dose include weight loss and lethargy.

DISPOSAL

Waste Disposal

Reclaim by distillation, incinerate, or remove to a permitted waste facility. Comply with Federal, State, and local regulations.

This material may be a RCRA Hazardous waste upon disposal due to the ignitability characteristic.

TRANSPORTATION DATA

Shipping Information:

DOT/IMO

Proper Shipping Name : 1,1-DIFLUOROETHANE
 Hazard Class : 2.1
 UN No. : UN1030
 Label : FLAMMABLE GAS
 Special Information : CARGO AIRCRAFT ONLY
 IMO Regulations Page No. 2132 (1997)

PSN Code
 DOT FBB
 IMO FTF
 IATA JLT
 AFI JLT

Shipping Containers
 Cylinders
 Ton Tanks
 Isocontainers (Isotanks)

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status : Reported/Included.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
 Chronic : No
 Fire : Yes
 Reactivity : No
 Pressure : Yes

Listed under

SARA Extremely Hazardous Substance - No
 CERCLA Hazardous Substance - See "DISPOSAL"
 SARA Toxic Chemicals - No

OSHA in 29CFR 1910.1200(c); defined hdc-152a is a flammable gas. Use of this product may require compliance with 29CFR 1910.119, Process Safety Management of Highly Hazardous Chemicals.

OTHER INFORMATION

NFPA,NPCA-HMIS

NPCA-HMIS Rating

Health: 1
 Flammability: 4
 Reactivity: 1

Personal Protection rating to be supplied by users depending on use

