



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0218
PRODUCT NAME BUCHU MERCAPTAN
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FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

SEE BELOW

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

SYNONYM	P-MENTHA-8-THIOL-3-ONE
MOLECULAR FORMULA	C10 H18 O S
MOLECULAR WEIGHT	186.32
CAS-No	EC-No
38462-22-5	253-953-1

4. FIRST-AID GUIDE:

EYES

IMMEDIATELY FLUSH EYES WITH LARGE QUANTITIES OF COLD CLEAN WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN IMMEDIATELY

SKIN

WASH WITH SOAP AND WATER. FLUSH WITH LARGE QUANTITIES OF WATER. IF IRRITATION PERSISTS CALL A PHYSICIAN

INHALATION

REMOVE TO FRESH AIR AND CALL A PHYSICIAN IF NECESSARY

INGESTION

ADMINISTER WATER OR MILK TO DILUTE. CONTACT A PHYSICIAN OR LOCAL POISON CONTROL CENTER IMMEDIATELY. **DO NOT** INDUCE VOMITING

5. FIRE-FIGHTING GUIDE:

FLASH POINT (°F) 200+ **METHOD USED** CC

EXTINGUISHING MEDIA

CARBONDIOXIDE; DRY CHEMICAL; UNIVERSAL TYPE FOAM

SPECIAL FIRE FIGHTING PROCEDURES

EVACUATE UNPROTECTED AND UNTRAINED PERSONNEL. TRAINED FIRE FIGHTING PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR

UNUSUAL FIRE, EXPLOSION AND STABILITY HAZARDS

SEALED CONTAINERS MAY BUILD UP PRESSURE AT HIGH TEMPERATURES. IF POSSIBLE, KEEP CONTAINERS COOLED WITH A WATER SPRAY

6. ACCIDENTAL RELEASE GUIDE:

REMOVE ANY SOURCES OF FLAME OR SPARKS. IF IN A CONFINED AREA NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. ABSORB SPILLS ON VERMICULITE OR OTHER SUITABLE ABSORBENT MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER

7. HANDLING AND STORAGE:

IT IS RECOMMENDED THAT THIS MATERIAL BE STORED IN TIGHT FULL CONTAINERS IN A COOL, DRY PLACE AWAY FROM LIGHT. CONSULT STORAGE SHEET FOR FULL DETIALS

8. EXPOSURE AND PERSONAL PROTECTION:

EYES

IN GENERAL, THE USE OF SAFETY GLASSES IS RECOMMENDED. IF THE MATERIAL IS TO BE HANDLED IN A MANNER WHERE SPLASHING MAY OCCUR, THE USE OF SPLASH GOGGLES OR FACE SHIELD IS RECOMMEND

RESPIRATORY

IN WELL VENTILATED AREAS RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN CONFINED, POORLY VENTILATED AREAS THE USE OF NIOSH-APPROVED RESPIRATORY PROTECTION MAYBE REQUIRED OR IF MATERIAL IS RATED TOXIC BY INHALATION

EQUIPMENT AND APPAREL

THE USE OF CHEMICAL RESISTANT GLOVES IS RECOMMENDED. ACCEPTABLE INDUSTRIAL HYGIENE PRACTICES SHOULD BE MAINTAINED. LIMIT EXPOSURE TO PRODUCT WHENEVER POSSIBLE, WASH AFTER ANY CONTACT. THOROUGHLY WASH ANY CONTAMINATED CLOTHING OR SHOES

VENTILATION

VENTILATION MEETING ACGIH STANDARDS SHOULD BE EMPLOYED

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE	LIQUID
% VOLATILE	N/A
ODOR	PUNGENT, SULPHUROUS
MELTING POINT (°C)	N/A
COLOR	YELLOW TO AMBER
VAPOR DENSITY (Air = 1)	6.4
SOLUBILITY IN WATER	INSOLUBLE
REFRACTIVE INDEX @ 20°C	1.495
BOILING POINT (°C)	270
WATER CONTENT	N/A
WAPOR PRESSURE (mm Hg @ 20°C)	N/A
ALCOHOL CONTENT	N/A
SPECIFIC GRAVITY @ 25C (H2O=1.0)	0.999

10. STABILITY AND REACTIVITY:

THIS MATERIAL PRESENTS NO SIGNIFICANT HAZARD. HAZARDOUS POLYMERIZATION WILL NOT OCCUR AND IT WILL NOT REACT VIOLENTLY WITH WATER

CONTACT WITH HIGHLY REACTIVE CHEMICAL OXIDANTS SHOULD BE AVOIDED. IF BURNED THIS PRODUCT WILL PRODUCE CARBON MONOXIDE AND/ RO CARBON DIOXIDE

11. DISPOSAL RECOMMENDATIONS:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS

12. TRANSPORTATION INFORMATION:

DOT (US)

UN number: 2810 Class: 6.1 Packing group: III

Proper shipping name: Toxic, liquids, organic, n.o.s. (2-(1-Mercapto-1-methylethyl)-5-methylcyclohexan-1-one)

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number: 2810 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (2-(1-Mercapto-1-methylethyl)-5-methylcyclohexan-1-one)
Marine pollutant: Marine pollutant

IATA

UN number: 2810 Class: 6.1 Packing group: III
Proper shipping name: Toxic liquid, organic, n.o.s. (2-(1-Mercapto-1-methylethyl)-5-methylcyclohexan-1-one)

13. REGULATORY INFORMATION:

Carcinogenicity

NTP	NO
OSHA	NO
IARC MONOGRAPH	NO
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED

Acute Toxicity Data

ORAL LD50	NOT ESTABLISHED
DERMAL LD50	NOT ESTABLISHED
INHALATION LC50	NOT ESTABLISHED

Health Hazards (Acute and Chronic)

SKIN CONTACT	MAY CAUSE IRRITATION
INHALATION	NOT ESTABLISHED
EYE CONTACT	MAY CAUSE IRRITATION
INGESTION	NOT ESTABLISHED

Other Effects

THE HEALTH HAZARD INFORMATION IS BASED ON LABORATORY ANIMAL TEST DATA FOR INDIVIDUAL COMPONENTS OF THIS PRODUCT IN THEIR PURE FORM AS PROVIDED UNDER 29 CFR 1910.1200 (d)(5)(ii)

THE USER SHOULD CONSIDER THE RELEVANCY OF THIS INFORMATION IN A MANNER CONSISTENT WITH ITS PARTICULAR PURPOSE

US FEDERAL

HMIS III	PHYSICAL
HAZARD	0
HEALTH	1
FLAMMABILITY	1

REACTIVITY 0
PERSONAL PROTECTION X

TSCA

CAS# 38462-22-5 IS LISTED ON THE TSCA INVENTORY

HEALTH & SAFETY REPORTING LIST

NONE OF THE CHEMICALS ARE ON THE HEALTH & SAFETY REPORTING LIST

CHEMICAL TEST RULES

NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER A CHEMICAL TEST RULE

SECTION 12B

NONE OF THE CHEMICALS ARE LISTED UNDER TSCA SECTION 12B

TSCA SIGNIFICANT NEW USE RULE

NONE OF THE CHEMICALS IN THIS MATERIAL HAVE A SNUR UNDER TSCA

CERCLA HAZARDOUS SUBSTANCES AND CORRESPONDING RQS

NONE OF THE CHEMICALS IN THIS MATERIAL HAVE AN RQ

SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES

NONE OF THE CHEMICALS IN THIS PRODUCT HAVE A TPQ

SECTION 313

THIS MATERIAL CONTAINS WATER (LISTED AS WATER DISSOCIABLE NITRATE COMPOUNDS), BALANCE%, (CAS# 7732-18-5) WHICH IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III AND 40 CFR PART 373

CLEAN AIR ACT

THIS MATERIAL DOES NOT CONTAIN ANY HAZARDOUS AIR POLLUTANTS
THIS MATERIAL DOES NOT CONTAIN ANY CLASS 1 OZONE DEPLETORS
THIS MATERIAL DOES NOT CONTAIN ANY CLASS 2 OZONE DEPLETORS

CLEAN WATER ACT

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

OSHA

NONE OF THE CHEMICALS IN THIS PRODUCT ARE CONSIDERED HIGHLY HAZARDOUS BY OSHA

STATE

CAS# 38462-22-5 IS NOT PRESENT ON STATE LISTS FROM CA, PA, MN, MA, FL, OR NJ

CALIFORNIA PROP 65

CALIFORNIA NO SIGNIFICANT RISK LEVEL: NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED

EUROPEAN/INTERNATIONAL REGULATIONS

EUROPEAN LABELING IN ACCORDANCE WITH EC DIRECTIVES

HAZARD SYMBOLS

NOT AVAILABLE.

RISK PHRASES

R 36/38 IRRITATING TO SKIN AND EYES

SAFETY PHRASES

S 24/25 AVOID CONTACT WITH SKIN AND EYES
S 37 WEAR SUITABLE GLOVES
S 45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE)
S 28A AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER

WGK (WATER DANGER/PROTECTION)

CAS# 38462-22-5: NO INFORMATION AVAILABLE

CANADA - DSL/NDSL

CAS# 38462-22-5 IS LISTED ON CANADA'S DSL LIST

CANADA - WHMIS

WHMIS: NOT AVAILABLE.

CANADIAN INGREDIENT DISCLOSURE LIST

CAS# 7732-18-5 IS NOT LISTED ON THE CANADIAN INGREDIENT DISCLOSURE LIST.

14. OTHER INFORMATION:

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM CURRENT AND RELIABLE SOURCES. HOWEVER, THE DATA IS PROVIDED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, REGARDING ITS CORRECTNESS OR ACCURACY. SINCE

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