

ProGibb 4%

ISSUED 04/09/01

-----  
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  
-----

MATERIAL NAME: ProGibb 4%  
ABG-3067  
EPA Reg. No. 73049-15

MANUFACTURER: Valent BioSciences Corporation  
870 Technology Way, Suite 100  
Libertyville, Illinois 60048

## EMERGENCY TELEPHONE NUMBERS

Emergency Health or Spill:

Outside the United States: 651-632-6184  
Within the United States: 877-315-9819

2. COMPOSITION/INFORMATION ON INGREDIENTS  
-----

INGREDIENT NAME: Proprietary Ingredient\* - identity withheld as a  
Trade Secret

OSHA-PEL 8HR TWA: N/L  
STEL: N/L  
CEILING: N/L

ACGIH-TLV 8HR TWA: N/L  
STEL: N/L  
CEILING: N/L

OTHER 8HR TWA: 10 mg/m3 (Valent BioSciences Corporation)  
LIMITS STEL: N/A  
CEILING: N/A

\* Hazardous per OSHA criteria

INGREDIENT NAME: Isopropanol \*  
CAS/RTECS NUMBERS: 67-63-0 / NT8050000  
OSHA-PEL 8HR TWA: 400 ppm  
STEL: N/L  
CEILING: N/L  
ACGIH-TLV 8HR TWA: 400 ppm  
STEL: 500 ppm  
CEILING: N/L  
OTHER 8HR TWA: N/A  
LIMITS STEL: N/A  
CEILING: N/A

\*Hazardous per OSHA criteria.

ProGibb 4%

ISSUED 04/09/01

-----  
3. HAZARDS INFORMATION  
-----

EMERGENCY OVERVIEW: Flammable Liquid. This material is an eye and skin irritant.

ROUTE(S) OF ENTRY:           Skin: No  
                                  Inhalation: Yes  
                                  Ingestion: No

INGESTION RATING: None

SKIN ABSORPTION RATING: None

INHALATION RATING: None

CORROSIVENESS RATING: None

SKIN CONTACT RATING: None

SKIN SENSITIZATION RATING: None

EYE CONTACT RATING: Irritant

TARGET ORGANS: Eyes, central nervous system, reproductive system,  
possibly skin

CARCINOGENICITY RATING: NTP: NL   IARC: NL   OSHA: NL  
ACGIH: NL  
None.

SIGNS AND SYMPTOMS: N/D. Overexposure to the alcohol by inhalation or ingestion can cause flushing, headache, dizziness, mental depression, nausea, vomiting, drowsiness, anesthesia and coma. Vapor levels at or above 400 ppm for 3-5 minutes cause mild irritation to eyes, nose, and throat. Dryness or cracking of skin may occur after prolonged or repeated contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/D. Pre-existing eye, skin, or respiratory disease.

ProGibb 4%

ISSUED 04/09/01

---

#### 4. FIRST AID MEASURES

---

EYES: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

SKIN: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

INGESTION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

#### 5. FIRE FIGHTING PROCEDURES

---

FLASH POINT: 53 F (for Isopropanol)

FLASH POINT METHOD: Closed Cup

LOWER EXPLOSIVE LIMIT(%): 2.0% (for Isopropanol)

UPPER EXPLOSIVE LIMIT(%): 8.0% (for Isopropanol)

AUTOIGNITION TEMPERATURE: 750 F (for Isopropanol)

FIRE & EXPLOSION HAZARDS: Flammable liquid. Keep away from heat, sparks and flame.

EXTINGUISHING MEDIA: Use "alcohol" foam, carbon dioxide or dry chemical. Water may be ineffective.

FIRE FIGHTING INSTRUCTIONS: Wear protective clothing and self-contained breathing apparatus.

ProGibb 4%

ISSUED 04/09/01

-----  
6. ACCIDENTAL RELEASE MEASURES  
-----

SPILL OR RELEASE PROCEDURES: Recover product and place in appropriate container for disposal. Ventilate and wash area.

7. HANDLING AND STORAGE  
-----

HANDLING: N/D.

STORAGE: Keep containers tightly closed when not in use. Keep away from heat and open flame.

SPECIAL PRECAUTIONS: Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION  
-----

ENGINEERING CONTROLS: Use local exhaust.

RESPIRATORY PROTECTION: Air purifying respirator with organic vapor filter.

SKIN PROTECTION: Butyl or nitrile rubber.

EYE PROTECTION: Full-face respirator.

OTHER PROTECTION: Wear saranex tyvek coveralls if contact may occur.

9. PHYSICAL AND CHEMICAL PROPERTIES  
-----

APPEARANCE/PHYSICAL STATE: Colorless to light yellow liquid

ODOR: Rubbing alcohol

BOILING POINT: 82.5 C (for Isopropanol)

MELTING/FREEZING POINT: -92.8 C

VAPOR PRESSURE (mm Hg): 33 mmHg @ 20C (for Isopropanol)

VAPOR DENSITY (Air=1): 2.07 (for Isopropanol)

EVAPORATION RATE: N/D

BULK DENSITY: N/D

ProGibb 4%

ISSUED 04/09/01

-----  
SPECIFIC GRAVITY: 0.79  
SOLUBILITY: Miscible with water and most solvents  
pH: 3-4  
VISCOSITY: N/D

#### 10. STABILITY AND REACTIVITY

-----

CHEMICAL STABILITY: N/D

INCOMPATIBILITIES: Oxidizing materials and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: N/D.

HAZARDOUS POLYMERIZATION: N/D.

#### 11. TOXICOLOGICAL INFORMATION

-----

ORAL TOXICITY: LD50 > 5,000 mg/kg in rats.

DERMAL TOXICITY: LD50 > 2,000 mg/kg in rabbits.

INHALATION TOXICITY: Not lethal in an inhalation study with rats at an aerosol concentration of 5.67 mg/L/4 hours.

CORROSIVENESS: N/D

DERMAL IRRITATION: Animals exhibited mild to moderate redness that recovered in 10 days in a skin irritation test in rabbits. The primary irritation index was 1.6 on a scale of 0 to 8.

OCULAR IRRITATION: Produced mild to moderate corneal opacity, mild iritis and mild to severe conjunctival redness, swelling and discharge recovering in 28 days in an eye irritation test in rabbits. Superficial corneal vascularization developed in one animal. The maximum total irritation score was 28.3 on a scale of 0-110.

DERMAL SENSITIZATION: Did not produce a sensitization response in the Buehler assay in guinea pigs at a challenge concentration of 10% in water.

ProGibb 4%

ISSUED 04/09/01

-----

SPECIAL TARGET ORGAN EFFECTS: N/D. The active, proprietary ingredient has been reported to have estrogenic and androgenic activity in animals. In reproduction studies in rats, no maternal or fetal toxicity, or other adverse effects to the fetus were noted following large dosages (1000 mg/kg/day) of this ingredient. The primary component is a central nervous system depressant. Repeated exposure at high concentrations (2.5% or greater in drinking water) produced a variety of reproductive, fertility and developmental effects in rats.

CARCINOGENICITY INFORMATION: N/D

## 12. ECOLOGICAL INFORMATION

-----

ECOLOGICAL INFORMATION: N/D

## 13. DISPOSAL CONSIDERATIONS

-----

WASTE DISPOSAL METHODS: Dispose of product in accordance with federal, state, and local regulations.

## 14. TRANSPORTATION INFORMATION

-----

DOT STATUS: Regulated  
PROPER SHIPPING NAME: Isopropanol Solution, 3, UN1219, II  
HAZARD CLASS: 3  
UN NUMBER: UN1219  
PACKING GROUP: II  
REPORTABLE QUANTITY: N/A  
IATA/ICAO STATUS: Regulated  
PROPER SHIPPING NAME: Isopropanol Solution  
HAZARD CLASS: 3  
UN NUMBER: UN1219  
PACKING GROUP: II  
REPORTABLE QUANTITY: N/A

IMO STATUS: Regulated  
PROPER SHIPPING NAME: Isopropanol Solution  
HAZARD CLASS: Class 3.2  
UN NUMBER: UN1219  
PACKING GROUP: II  
REPORTABLE QUANTITY: N/A  
FLASH POINT: 53 F (for Isopropanol)

ProGibb 4%

ISSUED 04/09/01

-----  
15. REGULATORY INFORMATION  
-----

TSCA STATUS: Exempt

CERCLA STATUS: N/D

SARA STATUS: N/D

RCRA STATUS: N/D

PROP 65 (CA): N/D

16. OTHER INFORMATION  
-----

LEGEND: N/A = Not Applicable

N/D = Not Determined

N/L = Not Listed

L = Listed

C = Ceiling

S = Short-term

(R) = Registered Trademark of Valent BioSciences Corporation

(TM) = Registered Trademark of Valent BioSciences Corporation

The information and recommendations contained herein are based upon tests believed to be reliable. However, Valent BioSciences Corporation does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform with actual conditions of usage may be required. Valent BioSciences Corporation assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of these data. No freedom from infringement of any patent, copyright or trademark is to be inferred.

APPROVED BY: RHW