



## MATERIAL SAFETY DATA SHEET BAC ISOPROPYL ALCOHOL, NON AEROSOL

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**PRODUCT NAME** BAC ISOPROPYL ALCOHOL, NON AEROSOL  
**PRODUCT NO.** MCC-BACG  
**SYNONYMS, TRADE NAMES** BACG, BACP, BACD, 4722, 4724, 4725  
**PRODUCT USE** Cleaning agent.  
**SUPPLIER** MICROCARE CORPORATION  
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United States of America  
CAGE: OATV9  
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techsupport@microcare.com  
**EMERGENCY TELEPHONE** CHEMTREC (800) 424-9300  
**IDENTIFICATION No.** UN1219

### 2 HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

FLAMMABLE. Colourless liquid. Prolonged or repeated contact leads to drying of skin. The liquid may irritate the skin, the eyes and the respiratory tract. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an ember. No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation. Keep out of the reach of children.

#### PHYSICAL AND CHEMICAL HAZARDS

The product is highly flammable, and explosive vapors/air mixtures may be formed even at normal room temperatures.

#### POTENTIAL HEALTH EFFECTS

##### INHALATION

May cause irritation to the respiratory system. Vapors may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.

##### INGESTION

Substance may be harmful if swallowed. May cause nausea, headache, dizziness and intoxication. May irritate and cause stomach pain, vomiting and diarrhea.

##### SKIN CONTACT

Product has a defatting effect on skin. May cause skin irritation/eczema.

##### EYE CONTACT

Irritating to eyes. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

##### HEALTH WARNINGS

Keep out of the reach of children.

##### CARCINOGENICITY

This substance has no evidence of carcinogenic properties.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %
PROPAN-2-OL	200-661-7	67-63-0	90-100%

### 4 FIRST-AID MEASURES

## BAC ISOPROPYL ALCOHOL, NON AEROSOL

### GENERAL INFORMATION

FLAMMABLE. CAUTION! First aid personnel must be aware of own risk during rescue! Move the exposed person to fresh air at once. Place unconscious person on the side in the recovery position and ensure breathing can take place. Get medical attention if any discomfort continues.

### NOTES TO THE PHYSICIAN

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

### INHALATION

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

### INGESTION

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if he is unconscious. Consult a physician for specific advice.

### SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

## 5 FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

### SPECIAL FIRE FIGHTING PROCEDURES

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapors.

### UNUSUAL FIRE & EXPLOSION HAZARDS

Vapors are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

### SPECIFIC HAZARDS

The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures.

### PROTECTIVE MEASURES IN FIRE

Use protective equipment appropriate for surrounding materials.

**FLAMMABILITY LIMIT - LOWER(%)** 2.0

**FLAMMABILITY LIMIT - UPPER(%)** 12.0

**FLASH POINT (°C)** 12 C / 54 F TCC (Tag closed cup).

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Use protective gloves, goggles and suitable protective clothing. Do not smoke, use open fire or other sources of ignition. Provide adequate ventilation.

### ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

### SPILL CLEAN UP METHODS

Warn everybody of potential hazards and evacuate if necessary. If leakage cannot be stopped, evacuate area. Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Dam and absorb spillages with sand, earth or other non-combustible material. Collect in containers and seal securely.

## 7 HANDLING AND STORAGE

### HANDLING

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Storage tanks and other containers must be grounded. Ground and bond containers when transferring material. Static electricity and formation of sparks must be prevented.

### USAGE DESCRIPTION

Cleaning agent.

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### STORAGE

Store in closed original container in a dry place. Ground container and transfer equipment to eliminate static electric sparks. Do not store near heat sources or expose to high temperatures.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

### PROTECTIVE EQUIPMENT



### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

### RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

### HAND PROTECTION

Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

### EYE PROTECTION

Use eye protection. Wear approved, tight fitting safety glasses where splashing is probable.

### OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

### HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

### SKIN PROTECTION

Not relevant considering the small amounts used. Wear apron or protective clothing in case of splashes.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear liquid.
COLOR	Colourless.
ODOR	Characteristic. Odor of alcohol.
VOLATILITY DESCRIPTION	Volatile Emits vapors, especially during heating.
SOLUBILITY	Completely soluble in water
BOILING POINT (°C)	82-83 C / 179 - 182 F
RELATIVE DENSITY	0.785 g/cm <sup>3</sup> 20 C
VAPOR DENSITY (air=1)	1.82
VAPOR PRESSURE	41 hPa 20 C / 70 F
VOLATILE BY VOL. (%)	100
VISCOSITY	2.43 mPas
FLASH POINT (°C)	12 C / 54 F TCC (Tag closed cup).
VOLATILE ORGANIC CONTENT	785 g/litre

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions.

### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidizing agents. Strong alkalis. Strong mineral acids.

### HAZARDOUS POLYMERISATION

Will not polymerise.

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### MATERIALS TO AVOID

Strong oxidizing substances.

### HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Vapors/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

## 11 TOXICOLOGICAL INFORMATION

<b>Name</b>	PROPAN-2-OL
<b>Toxic Dose 1 - LD 50</b>	5045 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	3600 mg/kg (oral-mouse)
<b>Toxic Conc. - LC 50</b>	16,000 ppm/1h (inh-rat)

## 12 ECOLOGICAL INFORMATION

### MOBILITY

The product is soluble in water.

### BIOACCUMULATION

The product does not contain any substances expected to be bio-accumulating.

### DEGRADABILITY

The product is easily biodegradable.

<b>Name</b>	PROPAN-2-OL
<b>LC 50, 96 Hrs, Fish mg/l</b>	9,640
<b>EC 50, 48 Hrs, Daphnia, mg/l</b>	5102
<b>IC 50, 72 Hrs, Algae, mg/l</b>	>2,000

## 13 DISPOSAL CONSIDERATIONS

### WASTE MANAGEMENT

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Waste is suitable for incineration. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

## 14 TRANSPORT INFORMATION



<b>DOT PROPER SHIPPING NAME</b>	ISOPROPANOL
<b>TDG SHIPPING NAME</b>	ISOPROPANOL
<b>ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT</b>	No.
<b>IDENTIFICATION No.</b>	UN1219
<b>DOT HAZARD CLASS</b>	3
<b>DOT PACKING GROUP</b>	II
<b>U.S DOT HAZARD LABEL</b>	Flammable Liquid
<b>MARKINGS</b>	Overpack
<b>UN NO. SEA</b>	UN1219
<b>IMDG CLASS</b>	3
<b>IMDG PACK GR.</b>	II
<b>EMS</b>	F-E, S-D

## BAC ISOPROPYL ALCOHOL, NON AEROSOL

UN NO. AIR UN1219  
 AIR CLASS 3  
 AIR PACK GR. II  
 TDG PACKING GROUP II

### 15 REGULATORY INFORMATION

#### INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
PROPAN-2-OL	DSL	Yes.						

#### SARA (311/312) HAZARD CATEGORIES

Acute Chronic Fire

#### REGULATORY STATUS (US)

SECTION 313: This product is a toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and reauthorization Act of 1986 and 40 CFR Part 372. TSCA: The ingredients of this product are on the TSCA Inventory. PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity and for which warnings are now required. This Product is Hazardous under the OSHA Hazard Communication Standard.

#### REGULATORY REFERENCES

NFPA30 Flammable and Combustible Liquids Code. 29 CFR 1910.1010 Federal Regulations (OSHA Standard).

### WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM -WHMIS

#### LABEL(S) FOR SUPPLY



Flammable Liquid.



Materials Causing Other Toxic Effects.

#### CONTROLLED PRODUCT CLASSIFICATION

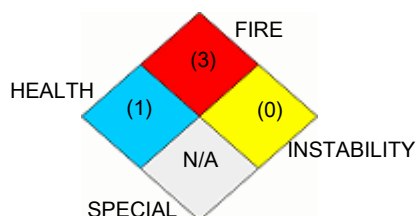
WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION (33)) This product has been classified according to the hazard criteria of the Controlled Product Regulations, and the MSDS contains all required information. Canadian WHMIS Classification B2 D2B

### 16 OTHER INFORMATION

#### HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH	1
FLAMMABILITY	3
PHYSICAL	0
PERSONAL PROTECTION	upervisor

#### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



#### REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

REVISION DATE

09/01/2011

## BAC ISOPROPYL ALCOHOL, NON AEROSOL

**VERSION No.**

6

**SAFETY DATA SHEET STATUS**

Approved.

**DATE**

26, September 2011

### DISCLAIMER

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