

## SAFETY DATA SHEET BAC ISOCLEAN, AEROSOL

According to Regulation (EU) No 453/2010  
According to Regulation (EC) No 1907/2006

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

**Product name** BAC ISOCLEAN, AEROSOL  
**Product No.** MCC-BAC, MCC-BAC101

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Cleaning agent.

#### 1.3. Details of the supplier of the safety data sheet

**Manufacturer** MICROCARE CORPORATION  
595 John Downey Drive  
New Britain, CT 06051  
United States of America  
CAGE: OATV9  
Tel: +1 860-827-0626  
Fax: +1 860-827-8105  
techsupport@microcare.com

#### 1.4. Emergency telephone number

0032-2-251-95-05 (9 AM - 5 PM, Mon- Fri)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Aerosol 1 - H222
Human health	Eye Irrit. 2 - H319; STOT Single 3 - H336
Environment	Not classified.

##### Classification (1999/45/EEC)

Xi; R36. F; R11. R67.

##### Human health

See section 11 for additional information on health hazards.

##### Environment

The product contains volatile, organic compounds which have a photochemical ozone creation potential.

##### Physical and Chemical Hazards

The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures. Aerosol containers can explode when heated, due to excessive pressure build-up.

#### 2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



##### Signal Word

Danger

##### Hazard Statements

H222	Extremely flammable aerosol.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

**BAC ISOCLEAN, AEROSOL****Precautionary Statements**

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/attention.
P501	Dispose of contents/container to ...

**Supplementary Precautionary Statements**

P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P337	If eye irritation persists:
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122° F.

**2.3. Other hazards****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

<b>PROPAN-2-OL</b>	<b>60-90%</b>
<b>CAS-No.: 67-63-0</b>	<b>EC No.: 200-661-7</b>
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 2 - H225	F;R11
Eye Irrit. 2 - H319	Xi;R36
STOT Single 3 - H336	R67

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition Comments**

The data shown are in accordance with the latest EC Directives.

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures****General information**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**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! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if he is unconscious. Get medical attention immediately!

**Skin contact**

Promptly wash contaminated skin with water. Promptly remove clothing if soaked through and wash the skin with water. Contact physician if irritation 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.

**4.2. Most important symptoms and effects, both acute and delayed**

## BAC ISOCLEAN, AEROSOL

### General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

#### Inhalation.

Vapours may cause headache, fatigue, dizziness and nausea.

#### Ingestion

May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.

#### Skin contact

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

#### Eye contact

Irritating and may cause redness and pain. Irritation and redness followed by blurred vision.

### **4.3. Indication of any immediate medical attention and special treatment needed**

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!

## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

#### Extinguishing media

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

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

### **5.2. Special hazards arising from the substance or mixture**

#### Hazardous combustion products

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

#### Unusual Fire & Explosion Hazards

Aerosol cans may explode in a fire.

#### Specific hazards

Aerosol containers can explode when heated, due to excessive pressure build-up. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

### **5.3. Advice for firefighters**

#### 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 vapours.

#### Protective equipment for fire-fighters

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear approved, tight fitting safety glasses where splashing is probable. Follow precautions for safe handling described in this safety data sheet. For personal protection, see section 8.

### **6.2. Environmental precautions**

Do not discharge into drains, water courses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

Wear necessary protective equipment. If leakage cannot be stopped, evacuate area. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

### **6.4. Reference to other sections**

For personal protection, see section 8. See section 11 for additional information on health hazards.

## SECTION 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Keep away from heat, sparks and open flame. Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Keep out of the reach of children.

### **7.2. Conditions for safe storage, including any incompatibilities**

**BAC ISOCLEAN, AEROSOL**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep upright.

**7.3. Specific end use(s)**

Cleaning agent.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3	

WEL = Workplace Exposure Limit.

**Ingredient Comments**

WEL = Workplace Exposure Limits

**8.2. Exposure controls****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**

For prolonged or repeated skin contact use suitable protective gloves. Gloves of nitrile rubber, PVA or Viton are recommended.

**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 vapour 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.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic. Odour of alcohol.
<b>Solubility</b>	Soluble in water.
<b>Initial boiling point and boiling range</b>	82 - 83 C / 173 - 174 F
<b>Melting point (°C)</b>	Not applicable.
<b>Bulk Density</b>	0.785 g/cm3
<b>Vapour density (air=1)</b>	1.82
<b>Vapour pressure</b>	41 hPa 20 C / 70 F
<b>Viscosity</b>	2.43 mPas 20 C / 70 F
<b>Odour Threshold, Lower</b>	Not determined.
<b>Flash point (°C)</b>	12 C / 53 F TCC (Tag closed cup).
<b>Auto Ignition Temperature (°C)</b>	425 C / 797 F
<b>Flammability Limit - Lower(%)</b>	2.0

**BAC ISOCLEAN, AEROSOL****Flammability Limit - Upper(%)** 12.0**Explosive properties**

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

**Comments** Aerosol.**9.2. Other information****Volatility Description** Volatile Emits vapours, especially during heating.**Volatile By Vol. (%)** 100**Volatile Organic Compound (VOC)** 785 g/litre**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

The product may form explosive vapours/air mixtures even at normal room temperatures.

**10.2. Chemical stability**

Stable under normal temperature conditions.

**10.3. Possibility of hazardous reactions****Hazardous Polymerisation**

Will not polymerise.

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials****Materials To Avoid**

Strong oxidising substances.

**10.6. Hazardous decomposition products**Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Other Health Effects**

This substance has no evidence of carcinogenic properties.

**General information**

No specific health warnings noted.

**Inhalation**

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

**Ingestion**

May cause stomach pain or vomiting.

**Skin contact**

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

**Eye contact**

Irritating to eyes.

<b>Name</b>	<b>PROPAN-2-OL</b>
<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)
<b>Name</b>	<b>HFC-134a Tetrafluoroethane</b>
<b>Toxic Dose 1 - LD 50</b>	>2085 mg/kg (oral rat)
<b>Other Health Effects</b>	

This substance has no evidence of carcinogenic properties.

**SECTION 12: ECOLOGICAL INFORMATION**

**BAC ISOCLEAN, AEROSOL****Ecotoxicity**

The product contains volatile, organic compounds which have a photochemical ozone creation potential.

**12.1. Toxicity****12.2. Persistence and degradability****Degradability**

The product is easily biodegradable.

**12.3. Bioaccumulative potential****Bioaccumulative potential**

The product does not contain any substances expected to be bioaccumulating.

**12.4. Mobility in soil****Mobility:**

Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

None known.

<b>Name</b>	<b>PROPAN-2-OL</b>
LC 50, 96 Hrs, Fish mg/l	9,640
EC 50, 48 Hrs, Daphnia, mg/l	5102
IC 50, 72 Hrs, Algae, mg/l	>2,000
<b>Name</b>	<b>HFC-134a Tetrafluoroethane</b>
LC 50, 96 Hrs, Fish mg/l	450
EC 50, 48 Hrs, Daphnia, mg/l	980

**SECTION 13: DISPOSAL CONSIDERATIONS****General information**

Recover and reclaim or recycle, if practical.

**13.1. Waste treatment methods**

Empty containers must not be burned because of explosion hazard. Recover and reclaim or recycle, if practical. Dispose of waste and residues in accordance with local authority requirements.

**SECTION 14: TRANSPORT INFORMATION****14.1. UN number**

UN No. (ADR/RID/ADN)	UN1950
UN No. (IMDG)	UN1950
UN No. (ICAO)	UN1950

**14.2. UN proper shipping name**

Proper Shipping Name	Consumer Commodity ORM-D (IN USA Only)
Proper Shipping Name	AEROSOLS

**14.3. Transport hazard class(es)**

ADR/RID/ADN Class	Class 2.1: Flammable gases.
ADR Label No.	2
IMDG Class	2.1
ICAO Class/Division	2.1
ICAO Subsidiary risk	N/A

Transport Labels

**BAC ISOCLEAN, AEROSOL****14.4. Packing group**

Not applicable.

IMDG Packing group N/A

ICAO Packing group N/A

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

No.

**14.6. Special precautions for user**

EMS F-D, S-U

Emergency Action Code N/A

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable. No information required.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Approved Code Of Practice**

Classification and Labelling of Substances and Preparations Dangerous for Supply.

**Guidance Notes**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

**EU Legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**National Regulations**

The Aerosol Dispensers (EEC Requirements)(Amendment) Regulations 1996 (S.I 1996 No. 2421).

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION****Revision Comments**

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

Revision Date 07/02/2012

Revision 6

Supersedes date 10/01/2012

Safety Data Sheet Status Approved.

Date 23, January 2012

**Risk Phrases In Full**

R11 Highly flammable

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

## BAC ISOCLEAN, AEROSOL

### Hazard Statements In Full

H319	Causes serious eye irritation.
H225	Highly flammable liquid and vapour.
H336	May cause drowsiness or dizziness.

### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.