

Revision Date 07/31/2013
Revision 10
Supersedes Date 07/26/2013



SAFETY DATA SHEET

BAC IPA-BASED FLUX REMOVER-ISOCLEAN, BULK

1. IDENTIFICATION

Product Name	BAC IPA-BASED FLUX REMOVER-ISOCLEAN, BULK
Product No.	MCC-BACG
Synonyms, Trade Names	BACG, BACP, BACD, 4722, 4724, 4725, BAC-ISOPROPYL ALCOHOL, BULK
Identification No.	UN1219
Identified uses	Cleaning agent.
Supplier	MicroCare Corporation 595 John Downey Drive New Britain, CT 06019 United States of America Toll Free: 1-800-638-0125 Tel: 1-860-827-0626 Web: www.MicroCare.com email: techsupport@microcare.com
Emergency Telephone	CHEMTREC (800) 424-9300

2. HAZARD(S) 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.

Appearance	Clear liquid.
Color	Colourless.
Odor	Characteristic. Odor of alcohol.

GHS Pictogram



Signal Word Danger

Hazard Statements

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

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P271	Use only outdoors or in a well-ventilated area.
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 in accordance with local regulations.

GHS Classification

Physical and Chemical Hazards Flam. Liq. 2 - H225

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Human health
Environment

Eye Irrit. 2 - H319; STOT SE 3 - H336
Not classified.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label



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

OSHA Regulatory Status

This Product is Hazardous under the OSHA Hazard Communication Standard.

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.

Other Health Effects

This substance has no evidence of carcinogenic properties.

Physical And Chemical Hazards

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

PROPAN-2-OL	90-100%
CAS No.: 67-63-0	EC No.: 200-661-7
GHS Classification Flam. Liq. 2 - H225; Eye Irrit. 2 - H319; STOT SE 3 - H336	

4. FIRST-AID MEASURES

Description of first aid measures

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.

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.

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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.

Most important symptoms and effects, both acute and delayed

General Information

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

Inhalation

Vapors may cause drowsiness and dizziness. Headache. Irritation of nose, throat and airway.

Ingestion

Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication.

Skin Contact

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

Eye Contact

May cause temporary eye irritation. Irritating and may cause redness and pain.

Indication of any immediate medical attention and special treatment needed

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!

5. FIRE-FIGHTING MEASURES

Flammability Limit - Lower(%)	2.0
Flammability Limit - Upper(%)	12.0
Flash point (°C)	12 C / 54 F TCC (Tag closed cup).

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.

Hazardous combustion products

During fire, toxic gases (CO, CO₂) are formed.

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.

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.

Protective Equipment For Fire-Fighters

Use protective equipment appropriate for surrounding materials.

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.

Reference to other sections

For personal protection, see section 8. See section 11 for more detailed information on health effects and symptoms.

7. HANDLING AND STORAGE

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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.

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.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

Cleaning agent.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
PROPAN-2-OL	ACGIH	200 ppm		400 ppm		A4
PROPAN-2-OL	PEL	400 ppm	980 mg/m3			
COMPONENT						IDLH
PROPAN-2-OL						2000 ppm

ACGIH=American Conference of Governmental Industrial Hygienists.

A4: Not Classifiable as a Human Carcinogen.

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 hands 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.
Solubility	Completely soluble in water
Initial boiling point and boiling range	82-83 C / 179 - 182 F

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Melting point (°C)	Not relevant
Relative density	0.785 g/cm ³ 20 C
Vapor density (air=1)	1.82
Vapor pressure	41 hPa 20 C / 70 F
Viscosity	2.43 mPas
Odour Threshold, Lower	No information available.
Flash point	12 C / 54 F TCC (Tag closed cup).
Flammability Limit - Lower(%)	2.0
Flammability Limit - Upper(%)	12.0
Volatility Description	Volatile Emits vapors, especially during heating.
Volatile By Vol. (%)	100
Volatile Organic Compound (VOC)	785 g/litre

10. STABILITY AND REACTIVITY

Reactivity

No specific reactivity hazards associated with this product.

Stability

Stable under normal temperature conditions.

Hazardous Polymerisation

Will not polymerise.

Conditions To Avoid

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

Materials To Avoid

Strong oxidizing substances.

Hazardous Decomposition Products

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

11. TOXICOLOGICAL INFORMATION

Other Health Effects

This substance has no evidence of carcinogenic properties.

Toxicological Information on Ingredients:

PROPAN-2-OL (CAS: 67-63-0)

Toxic Dose 1 - LD 50

5045 mg/kg (oral rat)

Toxic Dose 2 - LD 50

3600 mg/kg (oral-mouse)

Toxic Conc. - LC 50

16,000 ppm/1h (inh-rat)

12. ECOLOGICAL INFORMATION

Ecotoxicity

There are no data on the ecotoxicity of this product.

Degradability

The product is easily biodegradable.

Bioaccumulative potential

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

Mobility:

The product is soluble in water.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

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

BAC IPA-BASED FLUX REMOVER-ISOCLEAN, BULKEcological Information on Ingredients:PROPAN-2-OL (CAS: 67-63-0)

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

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

UN No. (DOT/TDG)	UN1219
UN No. (IMDG)	UN1219
UN No. (ICAO)	UN1219
DOT Proper Shipping Name	ISOPROPANOL
TDG Proper Shipping Name	ISOPROPANOL

DOT Hazard Class

3

DOT Hazard Label

Flammable Liquid

IMDG Class	3
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ICAO Class	3
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Transport Labels

DOT Pack Group	II
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IMDG Pack Group	II
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Air Pack Group	II
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Environmentally Hazardous Substance/Marine Pollutant

No.

EMS	F-E, S-D
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Markings

Overpack

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes

Not relevant No information required.

15. REGULATORY INFORMATION

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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).

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

SARA (311/312) Hazard Categories

Acute Chronic Fire

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-I)

All ingredients are listed.

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

Massachusetts "Right To Know" List

All ingredients are listed.

Rhode Island "Right To Know" List

All ingredients are listed.

Minnesota "Right To Know" List

All ingredients are listed.

New Jersey "Right To Know" List

All ingredients are listed.

Pennsylvania "Right To Know" List

All ingredients are listed.

International Inventories

Canada – DSL/NDSL

All ingredients are listed or exempt.

US - TSCA

All ingredients are listed or exempt.

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

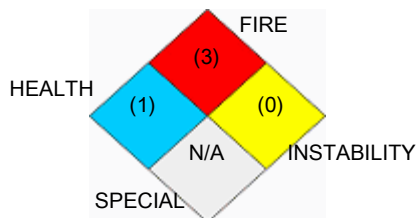
16. OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH		1
FLAMMABILITY		3
PHYSICAL		0
PERSONAL PROTECTION		A

BAC IPA-BASED FLUX REMOVER-ISOCLEAN, BULK

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



Revision Comments

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

Revision Date 07/31/2013

Revision 10

Supersedes Date 07/26/2013

Sds No. BULK_BAC

Material Safety Data Sheet Status Approved.

Date 24 July 2013

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.