

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

HMIS NFPA

### PRODUCT IDENTIFICATION

Brand Name: **BAC OFF**  
SDS #: 753  
Chemical Name: Mixture  
Empirical Formula: N/A  
Product Use: Hand sanitizer  
Use of the Substance/Preparation: Mixture

HEALTH	1	1
FLAMMABILITY	0	0
REACTIVITY	0	0
HMIS PPE	B	
HAZARD RATINGS: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Insignificant PERSONAL PROTECTIVE EQUIPMENT (PPE): B=Safety Glasses, Gloves		

PREPARER  
Wayne Concept  
5005 Speedway Dr.  
Fort Wayne, IN 46825  
Phone: (260) 482-8615

EMERGENCY TELEPHONE NUMBER  
INFOTRAC 1-800-535-5053

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Clear liquid with pleasant odor.

**Signal Word:** WARNING

**Repeated/prolonged contact may cause eye and skin irritation. Inhalation may cause mucous membrane irritation. Ingestion may cause gastrointestinal discomfort including irritation, nausea and diarrhea.**

This product is not combustible.

Use extinguishing media suitable for the materials that are burning.

**GHS Classification:** Skin: Category 2

Serious Eye Damage/Irritation: Category 2A



### POTENTIAL HEALTH EFFECTS

#### PRIMARY ROUTE(S) OF ENTRY

Eye contact; Inhalation, Ingestion

#### SYMPTOMS OF EXPOSURE

Eye contact: Direct contact can cause pain and irritation

Skin contact: Short periods of contact are not usually associated with skin irritation. Repeated direct contact can result in moderate irritation. Prolonged contact can result in moderate skin irritation.

Inhalation: Direct contact or exposure to high concentration of mists or vapors may cause irritation.

Ingestion: Direct contact or exposure may cause irritation. Ingestion of large amounts may cause gastrointestinal discomfort including irritation, nausea and diarrhea.

Chronic effects: No adverse effects are expected.

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None known

#### REPORTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

Not Applicable

OSHA

National Toxicology Program (NTP)

International Agency for Research on Cancer (IARC)

## 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	%	CAS#	EINECS#	Symbols	EU Classification*
Benzalkonium Chloride	< 1	8001-54-5	263-080-8	C, N	R21/22, 34, 50

\*See Section 16 for the full text of the Classification Phrases declared.

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

[This product is not regulated under OSHA 29CFR1910.1200]

(Note: See Section 8 of this MSDS for Exposure Guidelines)

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#### 4. FIRST AID MEASURES

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##### EYE CONTACT

Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.

##### SKIN CONTACT

Wash affected areas with plenty of water, and soap if available, for several minutes. Seek medical attention if irritation develops or persists.

##### INHALATION

Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

##### INGESTION

Give 3-4 glasses of water, but **DO NOT** induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

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#### 5. FIRE FIGHTING MEASURES

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Flash Point and Method: >200°F (Setaflash CC)

##### GENERAL HAZARD

This product is not combustible.

##### EXTINGUISHING MEDIA

Use media suitable for the material that is burning.

##### SPECIAL FIRE FIGHTING INSTRUCTIONS

Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side.

##### FIRE FIGHTING EQUIPMENT

As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.

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#### 6. ACCIDENTAL RELEASE MEASURES

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Spill area will be slippery. Wear appropriate protective equipment (See Section 8).

Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread.

Prevent liquid from entering sewers or waterways.

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#### 7. HANDLING AND STORAGE

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##### HANDLING

Wear appropriate protective equipment (See Section 8).

##### STORAGE

Keep container tightly closed. Keep away from heat, and sunlight. Storage temperature range: 20-30°C. If material freezes, separates or becomes hazy, gently thaw at about 40°C prior to use. Mild agitation may be required.

##### STORAGE STABILITY

2 Years from date of manufacture.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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##### ENGINEERING CONTROLS

In applications where the product will be exposed to elevated temperatures, use local ventilation to remove potential decomposition products.

##### PERSONAL PROTECTION FOR BULK HANDLING

Respirator:	In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.
Eye Protection:	Wear safety glasses with side shields or goggles.
Gloves:	Wear natural rubber gloves.
Clothing:	Normal working clothing is generally adequate.
Other:	Eye wash; safety shower.

##### EXPOSURE LIMITS

No limits established for this product

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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State..... Liquid solution  
Viscosity..... Low viscosity  
Color ..... Clear  
Odor ..... Pleasant  
Melting Point, °C..... NA  
Freezing Point, °C ..... ND  
Boiling Point, °C ..... 212°F  
Weight per Gallon..... 8.32 lb/gal  
Specific Gravity @20°C ..... 1.00 ±0.005  
Water Solubility ..... Soluble  
pH ..... 7.0 ±0.5  
Vapor Density..... Equivalent to water  
Vapor Pressure..... Equivalent to water

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**10. STABILITY AND REACTIVITY**

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REACTIVITY Stable  
INCOMPATIBILITIES  
None known.  
HAZARDOUS DECOMPOSITION PRODUCTS  
Oxides of Carbon and Nitrogen on combustion.  
CONDITIONS TO AVOID  
Avoid contact with heat.

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**11. TOXICOLOGICAL INFORMATION**

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Toxicity testing information as required by FDA Regulation:

Oral LD<sub>50</sub> (*Rat*-OPPTS 870.1100)..... >2,000 mg/kg  
Dermal LD<sub>50</sub> (*Rat*-OPPTS 870.1200) ..... >5,000 mg/kg  
Inhalation LC<sub>50</sub>..... No data

Primary skin irritation (*Rabbit*-OPPTS 870.2500)..... Mildly irritating  
Primary eye irritation (*Rabbit*-OPPTS 870.2400) ..... Severely irritating  
Sensitization (*Guinea pig*-OPPTS 870.2600 Buehler protocol) ..... Not a sensitizer

The toxicity information provided below is for components of this material as required by Regulation:

ACUTE

For Benzalkonium chloride:

- Oral LD<sub>50</sub> (*rat*): 295 mg/kg
- Dermal LD<sub>50</sub> (*rabbit*): 3000 mg/kg
- Eye irritation (*rabbit*): Mild to moderate irritant (<1% active)
- Skin irritation (*rabbit*): Severe irritant
- Skin corrosivity (*rabbit*-DOT method): Corrosive
- Skin sensitization (*guinea pig*-Magnusson-Kligman Maximization): Not a sensitizer
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GENOTOXICITY/MUTAGENICITY

For Benzalkonium chloride:

- Ames test (*Salmonella sp.*): Not mutagenic with or without metabolic activation.

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**12. ECOLOGICAL INFORMATION**

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EC<sub>50</sub> (Bacterium toxicity)..... No data  
LC<sub>50</sub> (*Daphnia*) ..... No data

BOD ..... No data  
COD ..... No data

Heavy metals ..... No data

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**13. DISPOSAL CONSIDERATIONS**

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RCRA Waste Code: Not regulated under RCRA, 40 CFR 261  
Products: Keep away from natural water sources. Observe all applicable federal, state, and local regulations.  
Empty packaging: Remove all residue when emptying.

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**14. TRANSPORTATION INFORMATION**

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**DOT/IMDG/IATA Hazard Classification:** Non-Hazardous, not regulated  
**Hazardous:** N  
**Shipping Name:** LIQUID CLEANING COMPOUNDS  
**Freight Class:** 55

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**15. REGULATORY INFORMATION**

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**(Not meant to be all-inclusive, selected regulations represented)**

**OSHA HAZARD COMMUNICATION STANDARD (26 CFR 1910.1200)**

Hazardous       Non-Hazardous

**CERCLA/SUPERFUND (40 CFR 117, 302)**

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

**SARA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355)**

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

**SARA HAZARD CATEGORIES (40 CFR 370)**

Acute       Chronic       Fire       Pressure       Reactive       None

**SARA TOXIC SUBSTANCES (40 CFR 372)**

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

**TOXIC SUBSTANCES CONTROL ACT**

All known components comply with the requirements of the following chemical inventories: US (TSCA), Canada (DSL), European Communities (EINECS, REACH Status: pre-registered), Australia (AICS), China (IECSC), Japan (ENCS), Korea (ECL), New Zealand (NZIoC), Philippines (PICCS).

**STATE REGULATIONS**

None listed.

**HARMONIZED TARIFF SCHEDULE CODES**

US Census Bureau Schedule B 2008: 3402.90.1000

Departmental Consolidation of the *Customs Tariff* 2008 (Canada): 3402.90.9000

EC Community Tariff (TARIC): 3402.90.1000

**EC-DIRECTIVE-MARKINGS**

R-phrases:	R36:	Irritating to eyes
S-phrases:	S25:	Avoid contact with eyes
	S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36:	Wear suitable protective clothing
EU directive	Classification and labeling have been performed according to EU directive 67/548/EEC. 1999/46/EC	

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**16. OTHER INFORMATION**

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**ABBREVIATIONS**

C:	Ceiling limit	N/A:	Not Applicable	N/D:	Not determined
N/E:	Not established	N/K:	Not known	RQ:	Reportable quantity

**Explanations to R-phrases in section 2:**

R21/22:	Harmful in contact with skin and if swallowed	R50:	Very toxic to aquatic organisms
R34:	Causes burns		

**Date Prepared:** April 15, 2014

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