

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 1.3

### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture
Product name : AC Fresh
Product code : 94584

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : HVAC system air freshener

### 1.3. Supplier

Bardahl Pro 1400 NW 52nd Street Seattle, 98107 - USA T 206-783-4851 - F 206-784-3219 www.bardahl.com Contact:Jackie Leung

### 1.4. Emergency telephone number

Emergency number : 800-424-9300

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Flammable aerosols, Category 2
Gases under pressure : Liquefied gas

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2A

Flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.
Causes serious eye irritation.

## 2.2. GHS Label elements, including precautionary statements

### **GHS US labelling**

Hazard pictograms (GHS US)







Signal word (GHS US) : Warning

Hazard statements (GHS US) : Flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.
Causes serious eye irritation.

Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. heat, sparks, open flames

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use. Wash hands thoroughly after handling.

Wear eye protection, protective clothing, protective gloves.

If on skin: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Protect from sunlight. Store in a well-ventilated place.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

01/29/2020 EN (English) Page 1

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 3: Composition/information on ingredients**

#### **Substances**

Not applicable

#### 3.2. **Mixtures**

Name	Product identifier	%	GHS-US classification
Isopropyl Alcohol	(CAS-No.) 67-63-0	30 – 80	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Propane/n-Butane	(CAS-No.) 68476-86-8	10 – 40	Flam. Gas 1, H220 Muta. 1B, H340 Carc. 1A, H350

Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

### **Description of first aid measures**

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you First-aid measures after ingestion

feel unwell.

#### Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation. Symptoms/effects after eye contact : Eye irritation.

#### Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Flammable aerosol.

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

#### Special protective equipment and precautions for fire-fighters 5.3.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

## **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Ventilate spillage area. Evacuate area. No open flames, no sparks, and no smoking. Avoid

contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### **Environmental precautions**

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

### Reference to other sections

For further information refer to section 13.

01/29/2020 EN (English) 2/7

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin and eyes. Wear personal

protective equipment.

Handling temperature : ≤ 50 °C

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

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

Storage conditions : Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures

exceeding 50 °C/ 122 °F. Keep cool.

Storage temperature : ≤ 54 °C

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

AC Fresh		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (ppm)	200 ppm Isopropyl alcohol	
ACGIH Ceiling (ppm)	1000 ppm Propane/n-butane	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (STEL) (ppm)	400 Isopropyl alcohol	
OSHA PEL (Ceiling) (ppm)	1000 ppm Propane/n-butane	
Propane/n-Butane (68476-86-8)		
No additional information available		
Isopropyl Alcohol (67-63-0)		
USA - ACGIH - Occupational Exposure Limits		
Local name	2-Propanol	
ACGIH TWA (ppm)	200 ppm	
ACGIH STEL (ppm)	400 ppm	
Remark (ACGIH)	Eye & URT irr; CNS impair	
USA - OSHA - Occupational Exposure Limits		
Local name	Isopropyl alcohol	
OSHA PEL (TWA) (mg/m³)	980 mg/m³	
OSHA PEL (TWA) (ppm)	400 ppm	

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

## 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Protective clothing. Gloves. Safety glasses.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

01/29/2020 EN (English) 3/7

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Personal protective equipment symbol(s):









#### Other information:

Do not eat, drink or smoke when using this product.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : clear
Odour : Mild odour
Odour threshold : No data available

pH : 10

Melting point : No data available Freezing point : No data available

Boiling point : 76.66 °C

Flash point : No data available

Relative evaporation rate (butylacetate=1) : > 1
Relative evaporation rate (ether=1) : > 1

Flammability (solid, gas)

Vapour pressure

Relative vapour density at 20 °C

Relative density

Relative gas density

Solubility

Partition coefficient is extended water. (Leg Row)

Restriction coefficient is extended water. (Leg Row)

Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature No data available Decomposition temperature : No data available Viscosity, kinematic No data available Viscosity, dynamic No data available : No data available **Explosive limits** Explosive properties No data available : No data available Oxidising properties

### 9.2. Other information

VOC content : 60 %

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Flammable aerosol.

## 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

01/29/2020 EN (English) 4/7

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **Hazardous decomposition products**

No additional information available

### **SECTION 11: Toxicological information**

### Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Isopropyl Alcohol (67-63-0)	
LD50 oral rat	5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	16400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (ppm)	> 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	5840 mg/kg bodyweight
ATE US (dermal)	16400 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.

pH: 10

Serious eye damage/irritation : Causes serious eye irritation.

pH: 10

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

Isopropyl Alcohol (67-63-0)		
	STOT-single exposure	May cause drowsiness or dizziness.
	STOT-repeated exposure	: Not classified

STOT-repeated exposure

: Not classified Aspiration hazard Viscosity, kinematic : No data available

Symptoms/effects after skin contact : Irritation. Symptoms/effects after eye contact : Eye irritation.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse Ecology - general effects in the environment.

AC Fresh	
LC50 fish 1	100000 ppm Isopropyl Alcohol - 96 hr - Fathead Minnow
Isopropyl Alcohol (67-63-0)	

Isopropyl Alcohol (67-63-0)	
LC50 fish 1	9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)

#### Persistence and degradability 12.2.

Isopropyl Alcohol (67-63-0)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.19 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.23 g O <sub>2</sub> /g substance
ThOD	2.4 g O <sub>2</sub> /g substance

01/29/2020 EN (English) 5/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 12.3. Bioaccumulative potential

Isopropyl Alcohol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0.05 (Weight of evidence approach, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

### 12.4. Mobility in soil

Isopropyl Alcohol (67-63-0)	
Surface tension	0.021 N/m (25 °C)
Partition coefficient n-octanol/water (Log Koc)	0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

## **Transportation of Dangerous Goods**

### Transport by sea

Transport document description (IMDG) : UN 1950 AEROSOLS (PROPANE/N-BUTANE), 2.1

UN-No. (IMDG) : 1950
Proper Shipping Name (IMDG) : AEROSOLS
Class (IMDG) : 2 - Gases
Limited quantities (IMDG) : SP277

Air transport

## **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

### Isopropyl Alcohol (67-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

### 15.2. International regulations

### **CANADA**

## **EU-Regulations**

### **National regulations**

No additional information available

### 15.3. US State regulations

01/29/2020 EN (English) 6/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Component	State or local regulations
Isopropyl Alcohol(67-63-0)	U.S New Jersey - Right to Know Hazardous Substance List

## **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 01/29/2020

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause

significant irritation.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to

relatively high ambient temperatures before ignition can

occur.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can

become unstable at elevated temperatures and pressures.



Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient

temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F

but below 200 F. (Classes II & IIIA)

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high

temperatures and pressures. Materials may react non-violently with water or undergo hazardous

polymerization in the absence of inhibitors.

Personal protection :

C - Safety glasses, Gloves, Synthetic apron

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

01/29/2020 EN (English) 7/7