



## 1 Identification

### GHS Product Identifier

Product form: Mixture  
Trade Name: Blow Off Electronics Cleaner with Foaming Action  
Product code: EC-222-222

### Recommended use of the chemical and restriction on use

Recommended Use: Electronics Surface Cleaner

### Supplier's details

Max Pro  
P.O. Box 9962  
Ft. Lauderdale, FL 33310 USA

Tel.: 954-972-3338

### Emergency phone number

CHEMTREC 24 Hour Emergency Response  
USA & Canada 800-424-9300

## 2 Hazard(s) identification

### Classification of the substance or mixture

Criteria	Category	Signal Word	Pictograms
Gases Under Pressure; Compressed Gas	1	Warning	Gas Cylinder

### GHS label elements



Contains gas under pressure; may explode if heated

Protect from sunlight. Store in a well-ventilated place.

### Other hazards which do not result in classification

#### Unknown acute toxicity

9.5 % of the mixture consists of ingredient(s) of unknown toxicity  
7 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
7 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
2.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
9.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

*Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements above. The labeling above applies to industrial/professional products.*

### 3 Composition/information on ingredients

Description	CAS Number	%	Note
Isobutane	75-28-5	3.15	
2-Propanol	67-63-0	2.5	
Propane	74-98-6	1.96	
n-Butane	106-97-8	1.89	
Water	7732-18-5	90.5	

### 4 First-aid measures

#### Description of necessary first-aid measures

Inhalation:	Remove to fresh air.
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact:	In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
Ingestion:	Clean mouth with water and drink afterwards plenty of water.

#### Most important symptoms/effects, acute and delayed

Symptoms:	No information available.
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#### Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians:	Treat symptomatically.
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### 5 Fire-fighting measures

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Specific hazards arising from the chemical

Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by a specialist. Hazardous Combustion Products: Carbon oxides.

#### Explosion Data

Sensitivity to Mechanical Impact:	Yes.
Sensitivity to Static Discharge:	None.

#### Special protective actions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### 6 Accidental release measures

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

Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

#### Methods and materials for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so.
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Methods for cleaning up:

Pick up and transfer to properly labeled containers.

## 7 Handling and storage

### Precautions for safe handling

Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.

## 8 Exposure controls/personal protection

### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isobutane 75-28-5	STEL: 1000 ppm	N/A	N/A
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>
Butane 106-97-8	STEL: 1000 ppm	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>

Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Isobutane 75-28-5		TWA: 1000 ppm	TWA: 800 ppm TWA: 1000 ppm STEL: 1000 ppm	
Isopropyl alcohol 67-63-0	TWA: 200 ppm TWA: 492 mg/m <sup>3</sup> STEL: 400 ppm STEL: 984 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 400 ppm	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 985 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1230 mg/m <sup>3</sup>
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>
Butane 106-97-8	TWA: 1000 ppm	TWA: 600 ppm TWA: 1000 ppm STEL: 750 ppm	TWA: 800 ppm TWA: 1000 ppm STEL: 1000 ppm	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>

### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).  
See section 15 for national exposure control parameters.

### Appropriate engineering controls

Showers; Eyewash stations; Ventilation systems.

### Individual protection measures

Eye/face protection: No special protective equipment required.

Skin and body protection:	No special protective equipment required.
Respiratory protection:	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

## 9 Physical and chemical properties

### Physical and chemical properties

#### Physical and Chemical Properties

Physical state	Liquid spray; Aerosol
Appearance	Clear
Odor	Fragranced
Color	No information available
Odor Threshold	Not applicable
pH	7
Melting / freezing point	No data available
Boiling point / boiling range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper flammability limit	No data available
Lower flammability limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	0.95
Water Solubility	Soluble in water
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	Not applicable
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available

## 10 Stability and reactivity

### Reactivity

No information available.

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal processing

### Conditions to avoid

Excessive heat.

### Incompatible materials

None known based on information supplied.

### Hazardous decomposition products

Carbon oxides.

## 11 Toxicological information

### Information on the likely routes of exposure

Inhalation: Specific test data for the substance or mixture is not available.

Eye contact: Specific test data for the substance or mixture is not available.

Skin contact: Specific test data for the substance or mixture is not available.

Ingestion: Specific test data for the substance or mixture is not available.

### Symptoms related to the physical, chemical and toxicological characteristics

No information available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

Skin corrosion/irritation: No information available.

Serious eye damage/eye irritation: No information available.

Respiratory or skin sensitization: No information available.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0	-	Group 3	-	X

Reproductive toxicity: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Aspiration hazard: No information available.

### Numerical measures of toxicity (such as acute toxicity estimates)

#### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	74,800.00 mg/kg
ATEmix (inhalation-gas)	4,241,063.19 mg/L
ATEmix (inhalation-dust/mist)	2,904.00 mg/L

#### Unknown acute toxicity

9.5 % of the mixture consists of ingredient(s) of unknown toxicity

7 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

7 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

2.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

9.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isobutane	-	-	= 658 mg/L (Rat) 4 h
Isopropyl alcohol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m <sup>3</sup> (Rat) 4 h
Propane	-	-	= 658 mg/L (Rat) 4 h
Butane	-	-	= 658 g/m <sup>3</sup> (Rat) 4 h

## 12 Ecological information

### Toxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Isopropyl Alcohol	96h EC50: > 1000 mg/L (Desmodesmus subspicatus) 72h EC50: > 1000 mg/L (Desmodesmus subspicatus)	96h LC50: > 1400000 µg/L (Lepomis macrochrisu) 96 h LC50: = 11130 mg/L (Pimephales promelas) 96h LC50: = 9640 mg/L (Pimephales promelas)	-	48h EC50: 13299 mg/L

### Persistence and degradability

No information available.

### Bioaccumulative potential

Chemical Name	Log Pow
Isobutane	2.88
Isopropyl alcohol	0.05
Propane	2.3
Butane	2.89

### Mobility in soil

No information available.

### Other adverse effects

No information available.

## 13 Disposal considerations

### Disposal methods

#### Water treatment methods

Waste from residues / unused products:

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging:

Do not reuse empty containers.

US EPA Waste Number:

D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste
Isopropyl alcohol 67-63-0	Toxic Ignitable

## 14 Transport information

### UN Number

UN1950

### UN Proper Shipping Name

Aerosols, 2.2 Limited Quantity  
Consumer Commodity, ORM-D

### Transport hazard class(es)

2.2

## 15 Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### International Regulations

Ozone-depleting substances (ODS): Not applicable

Persistent Organic Pollutants: Not applicable

Export Notification requirements: Not applicable

#### International Inventories

TSCA:	Contact supplier for inventory compliance status.
DSL/NDSL:	Contact supplier for inventory compliance status.
EINECS/ELINCS:	Contact supplier for inventory compliance status.
ENCS:	Contact supplier for inventory compliance status.
KECL:	Contact supplier for inventory compliance status.
PICCS:	Contact supplier for inventory compliance status.
AICS:	Contact supplier for inventory compliance status.

#### Legend

TSCA:	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL:	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS:	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS:	Japan Existing and New Chemical Substances
KECL:	Korean Existing and Evaluated Chemical Substances
PICCS:	Philippines Inventory of Chemicals and Chemical Substances
AICS:	Australian Inventory of Chemical Substances

### US Federal Regulations

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Percent	SARA 313 - Threshold Values %
Isopropyl alcohol - 67-63-0	67-63-0	2.5	1.0

Acute Health Hazard: No  
Chronic Health Hazard: No  
Fire Hazard: No  
Sudden release of pressure hazard: Yes  
Reactive Hazard: No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### US State Regulations

#### California Proposition 65

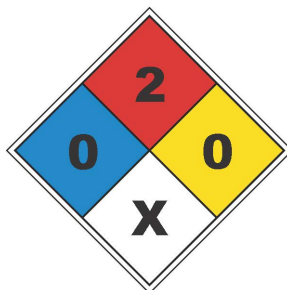
This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Isobutane 75-28-5	X	X	X		
Isopropyl alcohol 67-63-0	X	X	X	X	
Propane 74-98-6	X	X	X		
Butane 106-97-8	X	X	X		

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	-





### Other information

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.