



1 Identification

GHS Product Identifier

Product Name: Blow Off Electronics Cleaner with Foaming Action

Other means of identification

Product Number: EC-222-222

Recommended use of the chemical and restriction on use

Recommended Use: Electronic Cleaner

Restrictions on use: No information available

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	%
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

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.
Indication of immediate medical attention and special treatment needed, if necessary	
Note to physicians	Treat symptomatically.

5 Fire-fighting measures

Suitable extinguishing media

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

Unsuitable extinguishing media DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

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

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

Methods and materials for containment and cleaning up

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

Methods for cleaning up Pick up and transfer to properly labeled containers.

7 Handling and storage

Precautions for safe handling

Advice on safe handling Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

Conditions for safe storage, including any incompatibilities

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

8 Exposure controls/personal protection

Control parameters

Exposure Limits

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 ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m ³ TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m ³
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³
Butane 106-97-8	STEL: 1000 ppm	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m ³	TWA: 800 ppm TWA: 1900 mg/m ³

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 ³ STEL: 400 ppm STEL: 984 mg/m ³	TWA: 200 ppm STEL: 400 ppm	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 985 mg/m ³ STEL: 500 ppm STEL: 1230 mg/m ³
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³
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 ³

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**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

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	7	
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	0.95	
Water Solubility	Soluble in water	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water	Not applicable	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other Information

Explosive properties No information available
Oxidizing properties No information available
Softening Point No information available
Molecular Weight No information available
VOC Content (%) No information available
Liquid Density No information available

Bulk Density	No information available
Particle Size	No information available
Particle Size Distribution	No information 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

Product Information

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

Legend

IARC (International Agency for Research on Cancer)

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 ³ (Rat) 4 h
Propane	-	-	= 658 mg/L (Rat) 4 h
Butane	-	-	= 658 g/m ³ (Rat) 4 h

12 Ecological information

Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated.

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

California Hazardous Waste Codes 331

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

Special precautions for user

DOT

UN No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
Description UN1950, AEROSOLS, 2.2
Emergency Response Guide Number 126

TDG

UN No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
Description UN1950, AEROSOLS, 2.2

MEX

UN No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
Description UN1950, AEROSOLS, 2.2

ICAO

UN No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
Description UN1950, AEROSOLS, 2.2

IATA

UN No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
ERG Code 2L
Description UN1950, AEROSOLS, NON-FLAMMABLE, 2.2

IMDG/IMO

UN No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
EmS-No. F-D, S-U
Description UN1950, AEROSOLS, 2.2

RID

UN No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
Classification Code 5A
Description UN1950, AEROSOLS, 2.2
ADR/RID-Labels 2.2

ADR

UN No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
Classification Code 5A
Tunnel restriction code (E)
Description UN1950, AEROSOLS, 2.2

ADN

UN No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
Classification Code 5A
Special Provisions 190, 327, 344, 625
Description UN1950, AEROSOLS, 2.2
Hazard Labels 2.2
Limited Quantity 1 L
Ventilation VE04

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		

16 Other information

Other information

<u>NFPA</u>	Health Hazards 2	Flammability 0	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health Hazards 2	Flammability 0	Physical hazards 0	Personal Protection X