SECTION 1: Identification and Supplier/Manufacturer's Information

1.1. Product identifier

Product form: Mixture

Product name: Freeze Off Gum Remover

Product code: MB183-12

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Gum Remover

1.3. Details of the supplier of the safety data sheet

Pioneer Chemical
13717 S. Normandie Ave.
Gardena, CA 90249 - USA

T 310-366-7393
F 310-366-7193
www.pioneerchem.com

1.4. Emergency telephone number

Emergency number: INFOTRAC: 800-535-5053

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flammable aerosols Category 1

2.2. Label elements

GHS-US labeling

Hazard pictograms:

Signal word: Danger

Hazard statements: Extremely flammable aerosol.

Precautionary statements: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Wash hands after handling.

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

Dispose of waste and residues in accordance with local authority requirements.

2.3. Hazard not otherwise classified (HNOC)

None known.

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%
Butane	(CAS No) 106-97-8	60 - 80
Propane	(CAS No) 74-98-6	20 - 40

Ethyl Alcohol	(CAS No) 64-17-5	2.5 - 10
Other components below reportable levels		0.01 - 0.1

#: This substance has workplace exposure limit(s).

***Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Move to fresh air. Get medical attention if symptoms persist.

First-aid measures after skin contact: Rinse skin with water/shower.

First-aid measures after eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do.

First-aid measures after ingestion: Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

Dizziness. Direct contact with eyes may cause temporary irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water fog. Dry chemical powder. Carbon dioxide (CO_2)

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Contents under pressure.

Reactivity: Pressurized container may explode when exposed to heat or flame.

5.3. Advice for firefighters

Firefighting instructions: Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Cool containers exposed to fames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumems.

Protection during firefighting: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

General fire hazards Extremely flammable aerosol.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in

immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not re-use empty containers. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Pressure container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethyl Alcohol (CAS 64-17-5)		
USA ACGIH	ACGIH Ceiling (mg/m³)	1000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m^3 1000 ppm
Propane (CAS 74-98-6)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	1800 mg/m^3 1000 ppm
Butane (CAS 106-97-8)		
USA ACGIH	ACGIH Ceiling (mg/m³)	1000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m^3 800 ppm

8.2. Exposure controls

Personal protective equipment:	Avoid all unnecessary exposure.
Hand protection:	Wear appropriate chemical resistant gloves.
Eye protection:	Wear safety glasses with side shields (or goggles).
Skin and body protection:	Wear appropriate chemical resistant clothing.
Respiratory protection:	If permissable levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
Thermal hazards:	Wear appropriate thermal protective clothing, when necessary.
Appropriate engineering controls:	Explosion-proof general and local exhaust ventilation.
General hygiene considerations:	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Gas	Relative evaporation rate (butyl acetate=1):	Not available
Form:	Aerosol		
Color:	clear colorless	Partition Coefficient n-Octanol-Water:	Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	4.3% estimated
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.

Odor:	fruity	Flammability (solid, gas):	Not available
Odor threshold:	Not available	Vapor pressure:	60 - 70 psig @ 70°F estimated
pH:	Not applicable estimated	Vapor density:	Not available
Melting point:	Not available	Specific Gravity @ 77º F:	0.57 estimated
Freezing point:	Not available	Solubility:	Not available
Boiling point:	8.82°F (-12.88°C) estimated	Flash point:	- 156.0° F (-104.4°C) Propellant estimated
Explosive limits:	Not available	Auto-ignition temperature:	699.8°F (371°C) estimated
Viscosity:	Not available	Decomposition temperature:	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials

Fluorine. Chlorine. Nitrates.

10.6. Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Freeze Off Gum Remover (CAS Mixture)	
LC50 Rat (Inhalation)	489mg/l/4h
LD50 Rat (Oral)	489mg/l/4h
Butane (106-97-8)	
LC50 Mouse (Inhalation)	1237 mg/l, 120 Minutes 52 %, 120 Minutes
LC50 Rat (Inhalation)	1355 mg/l
Ethyl Alcohol (64-17-5)	

LC50 Cat (Inhalation)	85.41 mg/l, 4.5 Hours 43.68 mg/l, 6 Hours
LC50 Mouse (Inhalation)	> 60000 ppm 79.43 mg/l, 134 Minutes
LC50 Rat (Inhalation)	> 115.9 mg/l, 4 Hours 51.3 mg/l, 6 Hours
LD50 Monkey (Oral)	6000 mg/kg
LD50 Mouse (Oral)	10500 ml/kg
LD50 Rat (Oral)	7800 ml/kg 7060 mg/kg

Propane (74-98-6)

LC50 Mouse (Inhalation)	1237 mg/l, 120 Minutes 52 %, 120 Minutes
LC50 Rat (Inhalation)	1355 mg/l 658 mg/l/4h

* Estimates for product may be based on additional componenet data not shown.

Germ cell mutagenicity: No data available to indicate product or any componenets present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Not listed.

Reproductive toxicity: Not available.

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not likely due to the form of the product.

Symptoms/injuries after skin contact: No adverse effects due to skin contact are expected.

Symptoms/injuries after eye contact: Direct contact with eyes may cause temporary irritation.

Symptoms/injuries after ingestion: Expected to be a low ingestion hazard.

Symptoms/injuries after inhalation: No adverse effects due to inhalation are expected.

Symptoms related to the physical, chemical and toxicological characteristics: Dizziness. Direct contact with eyes may cause temporary irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ethyl Alcohol (64-17-5)

EC50 Crustacea	7700 - 11200 mg/l, 48 hours (Water flea (Daphnia magna))
LC50 Fish	> 100.1 mg/l, 96 hours (Fathead minnow (Pimephales promelas))

* Estimates for product may be based on additional componenet data not shown.

12.2. Persistence and degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

No data available.

Partition coefficient n-octanol / water (log Kow)

Butane 2.89

Ethyl Alcohol	-0.31
Propane	2.36

12.4. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, edocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be dipsosed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or unused container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations:	Dispose in accordance with all applicable regulations.
Hazardous waste code:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

SECTION 14: Transport information

14.1. UN Number

UN-No.(DOT): UN1950

14.2. UN proper shipping name

DOT Proper Shipping Name: Aerosols, flammable

Hazard labels (DOT):

Transport hazard class(es):

Class:	2.1
Subsidiary risk:	-
Label(s)	None

Packing group: Not applicable

Special precautions for user:	Read safety instructions, SDS and emergency procedures before handling.
Special provisions:	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk:	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

SECTION 15: Regulatory information

15.1. US Federal regulations

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

All comonents are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 302 Extremely hazardous substance

Not listed.

SARA 311-312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA)

Not regulated.

15.2. International regulations

International Inventories

Country(s) or region	Inventory name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Exisitng and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates that all components of this product comply with the inventory requirements adminstered by the governing country(s)

A " No" indicates that one or more components of the product are not listed or exempt from listing on the inventory adminstered by the

governing country(s)

15.2.2. National regulations

15.3. US State regulations

This product does not contain any substances known to the state of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8)

Ethyl Alcohol (CAS 64-17-5)

Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8)

Ethyl Alcohol (CAS 64-17-5)

Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8)

Ethyl Alcohol (CAS 64-17-5)

Propane (CAS 74-98-6)

US. Rhode Island RTK

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

SECTION 16: Other information

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