# SAFETY DATA SHEET

## 1. Product and Company Identification

Product number

1000003819

Material name

10 OZ CARPETAID 10% EB CARPET CLNR FR/EN

Company information

PLZ Aeroscience Corporation

1000 Integram Drive

Pacific, MO 63069 United States
General Assistance 1-636-334-9100

Company phone Emergency telephone US

1-866-836-8855

Emergency telephone outside

1-952-852-4646

US

Version #

01

Expiry Date Product use 29-Jun-2018

Cleaner

#### 2. Hazards Identification

**Emergency overview** 

WARNING

Flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame. Yields a flame projection at full valve opening or a flashback at any degree of valve opening. Will be easily ignited by heat, spark or flames. Harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin.

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Potential health effects

Routes of exposure

Inhalation. Ingestion. Skin contact. Eye contact.

Eyes

Irritating to eyes.

Skin

Ingestion

Harmful if absorbed through skin. Irritating to skin.

Inhalation Harmful by inhalation. Intentional misuse by concentrating and inhaling the product can be harmful

or fatal. May cause irritation of respiratory tract. Prolonged inhalation may be harmful.

Exposure by ingestion of an aerosol is unlikely. Harmful if swallowed. Irritating. May cause nausea, stomach pain and vomiting.

**Target organs** 

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans.

Chronic effects

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms

Irritating to eyes and skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Potential environmental effects

May cause long-term adverse effects in the environment.

# 3. Composition / Information on Ingredients

Components	CAS#	7 - 13	
Ethylene Glycol Monobutyl Ether	111-76-2		
Diethylene Glycol Monobutyl Ether	112-34-5	5 - 10	
Butane	106-97-8	1 - 5	
Propane	74-98-6	1 - 5	
Sodium Tetraborate	1303-96-4	0.1 - 1	
Other components below reportable levels		60 - 100	

#### 4. First Aid Measures

First aid procedures

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

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Skin contact Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes.

Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading

material on unaffected skin. Wash clothing separately before reuse.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a physician if symptoms develop or persist.

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth thoroughly. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Never give anything by mouth to a victim who is unconscious or is having convulsions.

Notes to physician
General advice

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show

this safety data sheet to the doctor in attendance.

#### 5. Fire Fighting Measures

Flammable properties

Pressurized container may explode when exposed to heat or flame. Ruptured cylinders may rocket. Vapors may travel considerable distance to a source of ignition and flash back.

Extinguishing media

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting

equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Specific methods

In the event of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers exposed to flames with water until well after the fire is out.

**Explosion data** 

Sensitivity to static discharge

Not available.

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Sensitivity to mechanical

impact

Not available.

Hazardous combustion

products

Carbon oxides.

## 6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. 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. For personal protection, see section 8 of the MSDS.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

Ventilate the contaminated area. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.

Other information

Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

#### Handling

Do not handle or store near an open flame, heat or other sources of ignition. 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. Pressurized container: Do not pierce or burn, even after use. 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. Do not re-use empty containers. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. Avoid release to the environment.

#### Storage

Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. 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. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the MSDS).

# 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

Components	Type	Value	Form
Butane (CAS 106-97-8)	STEL	1000 ppm	
Diethylene Glycol	TWA	10 ppm	Inhalable fraction and
Monobutyl Ether (CAS			vapor.
112-34-5) Ethylene Glycol Monobutyl	TWA	20 ppm	
Ether (CAS 111-76-2)	1 * * *	20 ββΙΙΙ	
Sodium Tetraborate (CAS	STEL	6 mg/m3	Inhalable fraction.
1303-96-4)			
	TWA	2 mg/m3	Inhalable fraction.
Canada. Alberta OELs (Occupation			
Components	Type	Value	
Butane (CAS 106-97-8)	TWA	1000 ppm	
Ethylene Glycol Monobutyl	TWA	97 mg/m3	
Ether (CAS 111-76-2)			
	77.4.4	20 ppm	
Propane (CAS 74-98-6)	TWA	1000 ppm	
Canada. British Columbia OELs. ( Safety Regulation 296/97, as amer		its for Chemical Substances, O	ccupational Health and
Components	Туре	Value	Form
Butane (CAS 106-97-8)	STEL	750 ppm	
\$	TWA	600 ppm	
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	20 ppm	
Sodium Tetraborate (CAS 1303-96-4)	STEL	6 mg/m3	Inhalable
1300-30-4)	TWA	2 mg/m3	Inhalable
Canada. Manitoba OELs (Reg. 217	//2006, The Workplace Safet	y And Health Act)	
Components	Type	Value	Form
Butane (CAS 106-97-8)	STEL	1000 ppm	
Diethylene Glycol	TWA	10 ppm	Inhalable fraction and
Monobutyl Ether (CAS 112-34-5)			vapor.
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	20 ppm	
Sodium Tetraborate (CAS 1303-96-4)	STEL	6 mg/m3	Inhalable fraction.
',			

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Canada. Ontario OELs	(Control of Exposure to Biological or Chemical Agents)
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Components	Type	Value
Butane (CAS 106-97-8)	TWA	800 ppm
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	20 ppm
Canada. Quebec OELs. (Ministry of	Labor - Regulation Respec	ting the Quality of the Work Environment)
Components	Туре	Value
Butane (CAS 106-97-8)	TWA	1900 mg/m3
		800 ppm
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	97 mg/m3
		20 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m3
		1000 ppm
Sodium Tetraborate (CAS 1303-96-4)	TWA	5 mg/m3
US. OSHA Table Z-1 Limits for Air (	Contaminants (29 CFR 1910.	1000)
Components	Type	Value
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	PEL	240 mg/m3
		50 ppm
Propane (CAS 74-98-6)	PEL	1800 mg/m3
		1000 ppm

#### Biological limit values

<b>ACGIH Biological E</b>	xposure Indices
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Components	Value	Determinant	Specimen	Sampling Time
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

## Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation. or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

## Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Wear chemical protective equipment that is specifically recommended by the manufacturer. It may

provide little or no thermal protection.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Hand protection

Wear protective gloves.

# 9. Physical & Chemical Properties

#### Appearance

Physical state Liquid. Form Aerosol. Color Not available. Odor Not available. Odor threshold Not available. Not available. Vapor pressure 55 psig @20C estimated

Vapor density Not available.

**Boiling point** 232.87 °F (111.59 °C) estimated

Melting point/Freezing point Not available.

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Solubility (water)

Not available.

Specific gravity

0.957 estimated

Relative density Flash point

Not available. -156.0 °F (-104.4 °C) Propellant estimated

Flammability limits in air,

upper, % by volume

9.5 % estimated

Flammability limits in air,

lower, % by volume

1.9 % estimated

Auto-ignition temperature

446 °F (230 °C) estimated

**Evaporation rate** 

Not available.

Percent volatile

98.96 % estimated

Partition coefficient

Not available.

(n-octanol/water)

Other data

Heat of combustion (NFPA

7.45 kJ/g estimated

# 10. Chemical Stability & Reactivity Information

Chemical stability

Material is stable under normal conditions.

Conditions to avoid

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

Incompatible materials

Strong oxidizing agents. Do not mix with other chemicals.

Hazardous decomposition

products

No hazardous decomposition products are known.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

## 11. Toxicological Information

Toxicological data

Product		Species	Test Results
10 OZ CARPETAID	10% EB CA	ARPET CLNR FR/EN (CAS Mixture)	
Acute	E.		
Dermal			
LD50	16	Rat	2316 mg/kg
Inhalation			
LC50	1 ;	Rat	21 mg/l/4h
Components		Species	Test Results
Butane (CAS 106-97	-8)		
Acute			
Inhalation			
LC50		Mouse	1237 mg/l, 120 Minutes
			52 %, 120 Minutes
		Rat	1355 mg/l
Diethylene Glycol Mc	nobutyl Et	her (CAS 112-34-5)	
Acute		, and the second of the second	
Dermal	i v sui		
LD50	1	Guinea pig	2 ml/kg, 2 Days
	131	Rabbit	2764 mg/kg, 24 Hours
Oral			3, 2,
LD100	2 .	Rabbit	4000 mg/kg
LD50		Guinea pig	2000 mg/kg
		Mouse	
			2410 mg/kg
		Rabbit	2500 - 3000 mg/kg

Components	1.92	Species	Test Results	
		Rat	3306 mg/kg	
Ethylene Glycol Monob	outyl Ether	(CAS 111-76-2)		
Acute				
Dermal				
LD50		Guinea pig	230 ml/kg, 24 Hours	
			7.3 ml/kg, 4 Days	
		Rabbit	450 ml/kg, 24 Hours	
			435 mg/kg, 24 Hours	
			0.63 ml/kg	
		Rat	> 2000 mg/kg, 24 Hours	
Inhalation				
LC50	1.4	Rabbit	400 ppm, 7 Hours	
		Rat	450 ppm, 4 Hours	
Oral				
LD100		Rabbit	695 mg/kg	
LD50		Dog	> 695 mg/kg	
		Guinea pig	1200 mg/kg	
		Rat	530 - 2800 mg/kg	
Propane (CAS 74-98-6	)			
Acute				
Inhalation				
LC50		Mouse	1237 mg/l, 120 Minutes	
			52 %, 120 Minutes	
		Rat	1355 mg/l	
			658 mg/l/4h	
Acute effects		Harmful if swallowed, in co	ntact with skin or if inhaled.	
Sensitization			d to cause skin sensitization. Not a respiratory sensitizer.	
Chronic effects			osorbed through the skin in toxic amounts if contact is repeated and	
		prolonged. These effects h	ave not been observed in humans.	
Carcinogenicity		Not expected to be hazard	ous by WHMIS criteria.	
ACGIH Carcinoge	ens	The court of the control of the cont		
Ethylene Glyc	ol Monobu	utyl Ether (CAS 111-76-2)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
	s. Overall	Evaluation of Carcinogenic	A4 Not classifiable as a human carcinogen.  ty	
Ethylene Glyc	ol Monobu	ıtyl Ether (CAS 111-76-2)	3 Not classifiable as to carcinogenicity to humans.	
Skin corrosion/irritati		Irritating to skin.		
Serious eye damage/i	irritation	Irritating to eyes.		
Mutagenicity		mutagenic or genotoxic.	e product or any components present at greater than 0.1% are	
Reproductive effects			d to cause reproductive or developmental effects.	
Teratogenicity		No data available to indicate product or any components present at greater than 0.1% may cause birth defects.		
Synergistic materials	1.5	Not available.		
	2.7			

## 12. Ecological Information

Ecotoxicological data

Product Species **Test Results** 

10 OZ CARPETAID 10% EB CARPET CLNR FR/EN (CAS Mixture)

Aquatic

Crustacea

EC50

Daphnia

Species

17895 mg/L, 48 Hours

Fish

LC50

Fish

1880 mg/L, 96 Hours

**Test Results** 

Diethylene Glycol Monobutyl Ether (CAS 112-34-5)

Aquatic

Fish

Components

LC50

Bluegill (Lepomis macrochirus)

1300 mg/l, 96 hours

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

Aquatic

Fish

LC50

Inland silverside (Menidia beryllina)

1250 mg/l, 96 hours

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

**Environmental effects** 

Aquatic toxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability Not available.

Partition coefficient

Butane Diethylene Glycol Monobutyl Ether

Ethylene Glycol Monobutyl Ether Propane

2.89

0.56 0.83 2.36

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into

sewers/water supplies. Dispose in accordance with all applicable regulations.

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.

14. Transport Information

TDG

UN number

UN1950

UN proper shipping name

AEROSOLS, flammable

Transport hazard class(es)

Class Subsidiary risk 2.1

Packing group

Not applicable.

**Environmental hazards** 

D

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

IATA

**UN** number

UN1950

UN proper shipping name

Aerosols, flammable

Transport hazard class(es)

Class

2.1

Subsidiary risk Label(s)

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Packing group

Environmental hazards

Not applicable. No.

**ERG** Code

10L

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Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, MSDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed.

aircraft

Cargo aircraft only

Allowed.

IMDG

**UN** number UN proper shipping name

UN1950 **AEROSOLS** 

Transport hazard class(es)

2.1

Subsidiary risk

Label(s)

None

Packing group

Class

Not applicable.

**Environmental hazards** 

Marine pollutant

No.

EmS

F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, MSDS and emergency procedures before handling.

## IATA; IMDG; TDG



# 15. Regulatory Information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status

Controlled

WHMIS classification

A - Compressed Gas B3 - Combustible Liquids

D1A - Immediate/Serious-VERY TOXIC

D2B - Other Toxic Effects-TOXIC

# WHMIS labeling







#### International Inventories

Country(s) or re	gion	Inventory name	On inventory (yes/no)*
Australia		Australian Inventory of Chemical Substances (AICS)	No
Canada		Domestic Substances List (DSL)	Yes
Canada		Non-Domestic Substances List (NDSL)	No
China		Inventory of Existing Chemical Substances in China (IECSC)	No
Europe		European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe		European List of Notified Chemical Substances (ELINCS)	No
Japan		Inventory of Existing and New Chemical Substances (ENCS)	No
Korea		Existing Chemicals List (ECL)	No
New Zealand		New Zealand Inventory	No

Country(s) or region

Inventory name

On inventory (yes/no)\*

Philippines

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico

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Toxic Substances Control Act (TSCA) Inventory

Yes

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

## 16. Other Information

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Plaze cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Prepared by

This data sheet contains changes from the previous version in section(s):

Not available.

Product and Company Identification: Product Review Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Transport Information: Proper Shipping Name/Packing Group

Regulatory Information: United States

HazReg Data: North America

GHS: Classification

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