Material Safety Data Sheet

Ignition and Battery Terminal Sealer (Aerosol) **MSDS ID: 490**

* * * Section 1 - Chemical Product and Company Identification * * *

Part Number: 490
Product Use: Sealing Ignition and Battery Cables
Manufacturer Information

BG Products Inc.
701 S. Wichita Street
Wichita, KS 67213

Phone: (316) 265-2686
Fax: (316) 265-0718
Emergency # 1-800-424-9300 (CHEMTREC)

* * * Section 2 - Hazards Identification * * *

Emergency Overview

DANGER

- CONTENTS UNDER PRESSURE.
- EXTREMELY FLAMMABLE. Vapors may cause flash fire or explosion. Do not use or store near flames, sparks, or hot surfaces.
- HARMFUL OR FATAL IF SWALLOWED.
- VAPOR HARMFUL. Avoid prolonged breathing of fumes. Use with adequate ventilation.
- EYE AND SKIN IRRITANT. This product is irritating to the eyes, respiratory system and skin. Avoid contact with eyes, skin, and clothing. Prolonged or repeated contact may result in defatting and drying of the skin, which may result in skin irritation or dermatitis (rash).

HMIS Ratings: Health: 2 **Fire:** 4 **Physical Hazard:** 0 **Pers. Prot.:** B
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
108-88-3	Toluene	75
68476-85-7	Propane/n-Isobutane	20

Component Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). This product is considered a controlled product under the Canadian Controlled Products Regulations (CPR).

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

First Aid: Skin

For skin contact flush with large amounts of water while removing contaminated clothing. If irritation persists, get medical attention.

First Aid: Ingestion

If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel.

First Aid: Inhalation

Move person to non-contaminated air. Give artificial respiration if not breathing. Call a physician if symptoms develop or persist.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.
Keep away from heat, sparks, or open flame.

Hazardous Combustion Products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Dry chemical, foam, carbon dioxide.

Fire Fighting Equipment/Instructions

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

NFPA Ratings: Health: 2 **Fire:** 4 **Reactivity:** 0 **Other:** 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

* * * Section 6 - Accidental Release Measures * * *

Containment Procedures

Contain the discharged material. Remove sources of ignition.

Clean-Up Procedures

Wear appropriate protective equipment and clothing during clean-up. Absorb spill with inert material. Shovel material into appropriate container for disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away. In case of large spills, follow all facility emergency response procedures.

Special Procedures

Wear appropriate personal protective equipment.

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Avoid getting this material into contact with your skin and eyes. Wash thoroughly after handling. Use this product with adequate ventilation. Keep container closed.

Storage Procedures

Do not store this material in open or unlabeled containers. Store this product in air-tight containers away from sources of heat and light.

* * * Section 8 - Exposure Controls / Personal Protection * * *

A: Component Exposure Limits

Toluene (108-88-3)

ACGIH:	20 ppm TWA
OSHA:	100 ppm TWA; 375 mg/m3 TWA
	150 ppm STEL; 560 mg/m3 STEL
NIOSH:	100 ppm TWA; 375 mg/m3 TWA
	150 ppm STEL; 560 mg/m3 STEL

Propane/n-Isobutane (68476-85-7)

ACGIH:	1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)
OSHA:	1000 ppm TWA; 1800 mg/m3 TWA
NIOSH:	1000 ppm TWA; 1800 mg/m3 TWA

B: Canadian Provincial Exposure Limits

Toluene (108-88-3)

Alberta:	50 ppm TWA; 188 mg/m3 TWA Substance may be readily absorbed through intact skin
British Columbia:	50 ppm TWA Skin notation
Manitoba:	100 ppm TWA; 375 mg/m3 TWA 150 ppm STEL; 560 mg/m3 STEL
New Brunswick:	50 ppm TWA; 188 mg/m3 TWA Skin - potential for cutaneous absorption
NW Territories:	100 ppm TWA; 375 mg/m3 TWA 150 ppm STEL; 560 mg/m3 STEL Skin notation
Nova Scotia:	50 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route
Nunavut:	100 ppm TWA; 375 mg/m3 TWA 150 ppm STEL; 560 mg/m3 STEL Skin notation
Ontario:	50 ppm TWAEV
Quebec:	150 ppm STEV; 565 mg/m3 STEV 100 ppm TWAEV; 377 mg/m3 TWAEV
Saskatchewan:	188 mg/m3 TWA; 50 ppm TWA 235 mg/m3 STEL; 60 ppm STEL
Yukon:	100 ppm TWA; 375 mg/m3 TWA 150 ppm STEL; 560 mg/m3 STEL Skin notation

Propane/n-Isobutane (68476-85-7)

Alberta:	1000 ppm TWA; 1800 mg/m3 TWA 1500 ppm STEL; 2700 mg/m3 STEL
British Columbia:	1000 ppm TWA 1250 ppm STEL
Manitoba:	1000 ppm TWA; 1800 mg/m3 TWA
New Brunswick:	1000 ppm TWA; 1800 mg/m3 TWA
NW Territories:	1000 ppm TWA; 1800 mg/m3 TWA 1250 ppm STEL; 2250 mg/m3 STEL
Nova Scotia:	1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)
Nunavut:	1000 ppm TWA; 1800 mg/m3 TWA 1250 ppm STEL; 2250 mg/m3 STEL
Ontario:	1000 ppm TWAEV
Quebec:	1000 ppm TWAEV; 1800 mg/m3 TWAEV
Saskatchewan:	1800 mg/m3 TWA; 1000 ppm TWA 2250 mg/m3 STEL; 1250 ppm STEL
Yukon:	1000 ppm TWA; 1800 mg/m3 TWA 1250 ppm STEL; 2250 mg/m3 STEL

Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles (if splashing is possible).

Personal Protective Equipment: Skin
Use appropriate hand protection.

Personal Protective Equipment: Respiratory
Use NIOSH approved respirator with cartridge, air line, or SCBA as appropriate based on workplace exposure evaluations.

Personal Protective Equipment: General
Use good industrial hygiene practices in handling this material.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Clear	**Odor:**	Solvent
Physical State:	Liquid	**Flash Point:**	7°C (45°F)
Flash Point Method:	TCC	**Boiling Point:**	110°C (230°F)
Melting Point:	Not Determined	**Pour Point**	Not Determined
Specific Gravity:	0.90	**Bulk Density:**	7.5109
Solubility (H2O):	Insoluble	**Vapor Pressure:**	38 mm Hg
Vapor Density:	Not Available	**Auto Ignition:**	Not Available
Lower Flammability Limit:	Not Available	**Upper Flammability Limit:**	Not Available
pH:	Not Available		

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability
Stable under normal conditions.

Chemical Stability: Conditions to Avoid
Keep away from heat, ignition sources and incompatible materials. Avoid strong oxidizing agents.

Incompatibility
This product may react with oxidizing agents. Strong oxidizing agents (peroxides, chlorine, strong acids).

Hazardous Decomposition
Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of Hazardous Reactions
Will not occur.

* * * Section 11 - Toxicological Information * * *

Acute Dose Effects
A: General Product Information

An LD50 value for this product has not been determined.

B: Component Analysis - LD50/LC50

Toluene (108-88-3)

Inhalation LC50 Rat: 12.5 mg/L/4H; Inhalation LC50 Rat: >26700 ppm/1H; Oral LD50 Rat: 636 mg/kg; Dermal LD50 Rabbit: 8390 mg/kg

Carcinogenicity
A: General Product Information

No carcinogenicity data available for this product.

B: Component Carcinogenicity

Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen
IARC: Monograph 71 [1999], Monograph 47 [1989] (Group 3 (not classifiable))

* * * Section 12 - Ecological Information * * *

Ecotoxicity

No information available for the product.

* * * Section 13 - Disposal Considerations * * *

Waste Disposal Instructions

Dispose of in accordance with all applicable Federal, State, Provincial, and local regulations.

* * * Section 14 - Transportation Information * * *

US DOT Information

Shipping Name: Consumer Commodity, ORM-D

IMDG Information

Shipping Name: Aerosol, Flammable **UN #:** 1950
Hazard Class: 2.1 **Required Label(s):** Limited Quantity

IATA Information

Shipping Name: Aerosol, Flammable **UN #:** 1950
Hazard Class: 2.1 **Required Label(s):** Limited Quantity

* * * Section 15 - Regulatory Information * * *

US Federal Regulations

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are exempt from listing (i.e. as polymers) or are listed on the confidential inventory as declared by the supplier.

A: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Toluene (108-88-3)

SARA 313: 1.0 % de minimis concentration
CERCLA: 1000 lb final RQ; 454 kg final RQ

B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Toluene	108-88-3	Yes	DSL	EINECS
Propane/n-Isobutane	68476-85-7	Yes	DSL	EINECS

State Regulations

Other state regulations may apply. Check individual state requirements.

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes	Yes
Propane/n-Isobutane	68476-85-7	No	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Toluene	108-88-3	1 %

* * * Section 16 - Other Information * * *

Other Information

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use. You must notify each person to whom this mixture or trade name product is sold. This statement must not be detached. Any copy or redistribution of the Material Safety Data Sheet shall include this statement.

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstract Services; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Product Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; HMIS = Hazardous Materials Information System; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IDL = Ingredient Disclosure List; IMDG = International Maritime Dangerous Goods; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Agency; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SARA = Superfund Amendments and Reauthorization Act; SCBA = Self Contained Breathing Apparatus; TSCA = Toxic Substance Control Act; WHMIS = Workplace Hazardous Materials Information System.

End of MSDS 490