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# MATERIAL SAFETY DATA SHEET

## BLAST OUT

### SECTION 1 MATERIAL IDENTIFICATION

WHMIS CLASSIFICATION  
HMIS

WHMIS CLASS A, B5, D2B  
HEALTH 2, FLAMMABILITY 4, REACTIVITY 1,  
PERSONAL PROTECTION B  
MIXTURE  
NOT APPLICABLE  
CARPET STAIN REMOVER

CHEMICAL FORMULA  
MOLECULAR WEIGHT  
MATERIAL USE

### SECTION 2 HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENT  
APPROX. CONCENTRATION %  
CAS  
EXPOSURE LIMITS  
LD50/LC50/SPECIES/ROUTE

2-BUTOXYETHANOL  
15-25  
111-76-2  
TWA: 50 CEIL: 150 (PPM) TWA: 240 CEIL: 720 (MG/M<sup>3</sup>)  
ORAL (LD50): ACUTE: 470 MG/KG (RAT) DERMAL (LD50)  
ACUTE 220 MG/KG (RABBIT)

HAZARDOUS INGREDIENT  
APPROX. CONCENTRATION %  
CAS  
EXPOSURE LIMITS  
LD50/LC50/SPECIES/ROUTE

LIQUEFIED PETROLEUM GAS  
5-15  
68476-85-7  
TWA: 1000 CEIL: 1250 (PPM) TWA: 1800 CEIL: 2250 (MG/M<sup>3</sup>)  
NOT AVAILABLE

### SECTION 3 PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE  
ODOUR AND APPEARANCE  
ODOUR THRESHOLD (PPM)  
SPECIFIC GRAVITY  
VAPOUR PRESSURE (MM)  
VAPOUR DENSITY (AIR =1)  
EVAPORATION RATE  
BOILING POINT (°C)  
FREEZING POINT (°C)  
SOLUBILITY IN WATER (20°C)  
% VOLATILE (BY VOL.)  
PH

AEROSOL  
CHARACTERISTIC ODOUR, CLEAR LIQUID  
NOT AVAILABLE  
0.978  
THE HIGHEST KNOWN VALUE IS 212 MM OF HG  
(@20°C) 2-BUTOXYETHANOL  
71  
0.06  
100°C (212°F)  
NOT DETERMINED  
SOLUBLE  
99  
NEUTRAL

**SECTION 4 FIRE AND EXPLOSION DATA**

FLAMMABILITY	FLAMMABLE
MEANS OF EXTINCTION	FLAMMABLE LIQUID, SOLUBLE OR DISPERSED IN WATER. SMALL FIRE: USE DRY CHEMICALS, CO <sub>2</sub> , ALCOHOL FOAM OR WATER SPRAY. LARGE FIRE: USE ALCOHOL FOAM, WATER SPRAY OR FOG. COOL CONTAINING VESSELS WITH WATER JET IN ORDER TO PREVENT PRESSURE BUILD-UP, AUTOIGNITION OR EXPLOSION.
SPECIAL PROCEDURES	NOT AVAILABLE
FLASHPOINT (°C) AND METHOD	THE LOWEST KNOWN VALUE IS CLOSED CUP: 65.6°C (150.1°F). OPEN CUP: 69.4°C (156.9°F) (CLEVELAND) 2-BUTOXYETHANOL
UPPER EXPLOSION LIMIT (% BY VOL.)	10.6 (2-BUTOXYETHANOL)
LOWER EXPLOSION LIMIT (% BY VOL.)	1.1
HAZARDOUS COMBUSTION PRODUCTS	THESE PRODUCTS ARE CARBON OXIDES (CO, CO <sub>2</sub> ), NITROGEN OXIDES (NO, NO <sub>2</sub> ...) AND OTHER IRRITATING GASES.
EXPLOSION SENSITIVITY TO CHEM. IMPACT	RISKS OF EXPLOSION OF THE PRODUCT IN PRESENCE OF MECHANICAL IMPACT.

**SECTION 5 REACTIVITY DATA**

CHEMICAL STABILITY	STABLE
INCOMPATIBILITY? TO WHAT?	AVOID CONTACT WITH STRONG OXIDIZING AGENTS, HEAT, OPEN FLAME AND ALL POSSIBLE IGNITION SOURCES.
HAZARDOUS DECOMPOSITION PRODUCTS	NOT AVAILABLE

**SECTION 6 TOXICOLOGICAL PROPERTIES**

ROUTE OF ENTRY SKIN CONTACT Y/N	Y
ROUTE OF ENTRY SKIN ABSORPTION Y/N	N
ROUTE OF ENTRY EYE CONTACT Y/N	Y
ROUTE OF ENTRY INHALATION ACUTE Y/N	Y
ROUTE OF ENTRY INHALATION CHRONIC Y/N	N
ROUTE OF ENTRY INGESTION Y/N	Y
EFFECTS OF ACUTE EXPOSURE	EYE CONTACT: MAY CAUSE IRRITATION, REDNESS, ITCHING AND TEARING. SKIN CONTACT: MAY CAUSE IRRITATION, DEFATTING, DRYING AND CRACKING OF SKIN. INHALATION: EXCESSIVE INHALATION OF VAPOURS MAY CAUSE NASAL AND RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE AND POSSIBLE UNCONSCIOUSNESS. INGESTION: MAY CAUSE BURNS TO THE MOUTH, THROAT AND STOMACH. CAN BE FATAL IF INHALED OR INGESTED.
EFFECTS OF CHRONIC EXPOSURE	REPEATED EXPOSURE TO A HIGHLY TOXIC MATERIAL MAY PRODUCE GENERAL DETERIORATION OF HEALTH BY AN ACCUMULATION IN ONE OR MORE HUMAN ORGANS.
SYNERGISTIC MATERIALS	NOT AVAILABLE
CARCINOGENICITY Y/N	N
REPRODUCTIVE EFFECTS Y/N	N
TERATOGENICITY Y/N	N
MUTAGENICITY Y/N	N

## SECTION 7 PREVENTIVE MEASURES

GLOVES	IMPERVIOUS GLOVES
EYEWEAR	SAFETY GLASSES
FOOTWEAR	AS REQUIRED BY EMPLOYER CODE
CLOTHING	AS REQUIRED BY EMPLOYER CODE
ENGINEERING CONTROLS	GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS.
LEAK AND SPILL PROCEDURE	NOT APPLICABLE
WASTE DISPOSAL	CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.
STORAGE REQUIREMENTS	KEEP IN A COOL WELL-VENTILATED PLACE. KEEP AWAY FROM HEAT, SPARKS AND FLAME. DO NOT PUNCTURE, INCINERATE, STORE THE CONTAINER AT TEMPERATURES ABOVE 49°C (120°F) OR IN DIRECT SUNLIGHT.

## SECTION 8 FIRST AID MEASURES

SKIN	WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. COMPLETELY DECONTAMINATE CLOTHING, SHOES AND LEATHER GOODS BEFORE REUSE OR DISCARD.
EYE	IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.
INHALATION	REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, CALL A PHYSICIAN.
INGESTION	DO NOT INDUCE VOMITING. HAVE CONSCIOUS PERSON DRINK SEVERAL GLASSES OF WATER OR MILK. NEVER GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS, IS RAPIDLY LOSING CONSCIOUSNESS OR IS CONVULSING. SEEK IMMEDIATE MEDICAL ATTENTION.

*VALIDATED BY YORK CHEMICAL TECHNOLOGIES INC  
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