SAFETY DATA SHEET

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HARBOR FREIGHT TOOLS HFT-65931 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 12/24/2015 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: EXTRA LARGE GRADE ARMEX® BLAST MEDIA 12 Chemical Name: Sodium Bicarbonate 1.3 Synonyms P/N 65931 14 Trade Names Armex® 1.5 Product Uses & Restrictions: Blast media 1.6 Distributor's Name: Harbor Freight Tools USA, Inc. 1.7 Distributor's Address: 26541 Agoura Road, Calabasas, CA 91302 USA 1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687) 1.9 Business Phone / Fax: +1 (805) 388-1000 2. HAZARDS IDENTIFICATION Hazard Identification: This product is classified as a HAZARDOUS SUBSTANCE or as DANGEROUS GOODS according 2.1 to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). WARNING! MAY CAUSE RESPIRATORY IRRITATION. Classification: STOT SE 3 Hazard Statements (H): H335 - May cause respiratory irritation. Precautionary Statements (P): P261 - Avoid breathing dust. P271 - Use only outdoors or in a well-ventilated area. P304+P340 - IF IHNALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER/doctor if you feel unwell. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/ container to an approved waste disposal plant. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC ppm ppm ppm ES-ES-CAS No. STEL STEL IDI H CHEMICAL NAME(S) RTECS No. **EINECS No** TLV PEL OTHER TWΔ STEL PEAK NA NA NA 60-100 NA NA NF NF NF NA NA NA SODIUM BICARBONATE MIXTURE VZ0950000 144-55-8 205-633-8 60-100 NA NA NF NF NF NA NA NA SODIUM BICARBONATE 4. FIRST AID MEASURES First Aid: If ingested, do not induce vomiting. Contact the nearest Poison Control Center or local emergency Ingestion: number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. If product is in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and Eyes: close eyelid(s) to ensure thorough irrigation. If problem persists, consult a physician. If redness, dryness or other signs of irritation to the skin develop, wash affected skin areas with plenty of Skin: warm water and soap. If irritation persists, consult a physician. Inhalation: Remove victim to fresh air at once. 4.2 Effects of Exposure: If product is swallowed (1-2 tablespoon full) may cause nausea and abdominal discomfort. Ingestion of Ingestion: large amounts may cause severe irritation of mouth, throat, esophagus, and stomach. Eyes: Slightly irritating to the eyes. May be irritating to skin in some sensitive individuals, especially after prolonged contact. Skin:

Inhalation:

Skin, respiratory system

4.3

4.5

4.6

4.7

Symptoms of Overexposure:

Acute Health Effects

Chronic Health Effects:

Aggravated by Exposure:

Target Organs:

Medical Conditions

individuals

soreness in throat, nose and respiratory tract.

Pre-existing dermatitis, other skin conditions.

Symptoms of overexposure may include redness, itching, and irritation.

Non-irritating when used as directed. Moderate irritation to eyes and skin near affected areas.

Non-irritating when used as directed. Possible allergic dermatitis in some sensitive individuals

Inhalation is unlikely; however, vapors of this product may be slightly irritating to some sensitive

HEALTH

SKIN

FLAMMABILITY

PHYSICAL HAZARDS

PROTECTIVE EQUIPMENT

LUNGS

concentrations of dust can cause coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or

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SDS Revision Date: 12/24/2015

		5 FIDEFICITING MEASURES							
5.1	Fire & Explosion Hazards:	5. FIREFIGHTING MEASURES This product is non-flammable. When exposed to high temperatures, may produce hazardous							
J. I	THE & EXPLOSION Flazards.	decomposition products such as oxides of carbon (e.g., CO, CO ₂) and nitrogen (e.g., NO _x) and smoke.							
5.2	Extinguishing Methods:	Water, Foam, CO ₂ , Dry Chemical							
5.3	Firefighting Procedures:	rst responders should wear eye protection. Structural fire fighters must wear full protective uipment and MSHA/NIOSH-approved self-contained breathing apparatus. If possible, prevent noff water from entering storm drains, bodies of water, or other environmentally sensitive areas. If							
		necessary, rinse contaminated equipment with soapy water before returning to service.							
		6. ACCIDENTAL RELEASE MEASURES							
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protect Equipment. For small-spills (e.g., <1 gallon) wear appropriate personal protective equipment (e.g., goggles, gloves). Maxim ventilation (open doors and windows). Remove spilled material with absorbent material and place into appropriate personal protective equipment.							
		losed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all iffected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and vash thoroughly before reuse. or large spills ≥ 1 gallon, deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand							
		or earth. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for pro- disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills a cleaning runoffs out of drains, municipal sewers and open bodies of water.							
		7. HANDLING & STORAGE INFORMATION							
7.1	Work & Hygiene Practices:	Avoid eve contact.							
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Do not store in damaged unmarked containers or storage devices. Keep containers securely closed when not in use.							
7.3	Special Precautions:	Spilled material may present a slipping hazard if left unattended. Clean all spills promptly.							
		0 EVECULE CONTROL C 0 REDCONAL PROTECTION							
0.4	Te	8. EXPOSURE CONTROLS & PERSONAL PROTECTION ACGIH NOHSC OSHA OTHER							
8.1	Exposure Limits: ppm (mg/m³)	ACGIH NOHSC OSHA OTHER							
		NA NA NA NF NF NF NA NA NA							
8.2	Ventilation & Engineering Controls:	The use of mechanical dilution ventilation is recommended to maintain airborne concentrations below the recommend occupational exposure limits, whenever this material is used in a confined space, is heated above normal temperatu (up to 38°C) or is agitated. When heated above 150 °C (300 °F) in the presence of air, product can form formaldehy vapors							
8.3	Respiratory Protection:	No special respiratory protection is required under typical circumstances of use or handling. In instances where dust or vapors of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.							
8.4	Eye Protection:	Safety glasses equipped with side shields should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125 °F (51 °C). Have suitable eye wash water available.							
8.5	Hand Protection:	Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected.							
8.6	Body Protection:	Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection.							
		9. PHYSICAL & CHEMICAL PROPERTIES							
	Appearance:	White crystalline powder							
9.1		·							
9.1	Odor:	None							
9.2	Odor Threshold:	NA NA							
9.2 9.3 9.4	Odor Threshold: pH:	NA 8.2 (1% solution v/v)							
9.2 9.3 9.4 9.5	Odor Threshold: pH: Melting Point/Freezing Point:	NA 8.2 (1% solution v/v) NA							
9.2 9.3 9.4	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range:	NA 8.2 (1% solution v/v) NA NA							
9.2 9.3 9.4 9.5 9.6	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling	NA 8.2 (1% solution v/v) NA NA NA							
9.2 9.3 9.4 9.5 9.6	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint:	NA 8.2 (1% solution v/v) NA NA NA NA NA							
9.2 9.3 9.4 9.5 9.6 9.7	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits:	NA 8.2 (1% solution v/v) NA NA NA							

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 12/24/2015 9. PHYSICAL & CHEMICAL PROPERTIES - cont'd 9.12 Solubility 8.6 g/100 ml @ 68 °F 9.13 Partition Coefficient (log Pow): NA 9.14 Autoignition Temperature NA 9.15 Decomposition Temperature: NA Viscosity NΑ Other Information: 9.17 NΑ 10. STABILITY & REACTIVITY This product is stable 10.1 Stability: 10.2 Hazardous Decomposition Oxides of carbon and nitrogen. Products: 10.3 Hazardous Polymerization: Will not occur. Open flames, sparks, high heat and direct sunlight. 10.4 Conditions to Avoid: 10.5 Incompatible Substances: None known. 11. TOXICOLOGICAL INFORMATION Absorption: YES Ingestion: YES Routes of Entry Inhalation: NO 11.1 11.2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product but is not presented in this document. 11.3 Acute Toxicity: See section 4.4 11.4 Chronic Toxicity: See section 4.5 11.5 Suspected Carcinogen: No. 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. Mutagenicity This product is not reported to produce mutagenic effects in humans. Embryotoxicity This product is not reported to produce embryotoxic effects in humans. Teratogenicity This product is not reported to produce teratogenic effects in humans. Reproductive Toxicity: This product is not reported to produce reproductive effects in humans. 117 Irritancy of Product: See section 4.3 11.8 Biological Exposure Indices: ΝE Physician Recommendations: 11.9 Treat symptomatically 12. ECOLOGICAL INFORMATION Environmental Stability: There are no specific data available for this product 12.1 There are no specific data available for this product 122 Effects on Plants & Animals: Effects on Aquatic Life: There are no specific data available for this product. 12.3 13. DISPOSAL CONSIDERATIONS Waste Disposal Dispose of in accordance with federal, state, provincial & local regulations. 13.1 13.2 Special Considerations 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 14.1 49 CFR (GND): **NOT REGULATED** 14.2 IATA (AIR): **NOT REGULATED** 14.3 IMDG (OCN): **NOT REGULATED** 14.4 TDGR (Canadian GND): **NOT REGULATED** ADR/RID (EU): 14.5 NOT REGULATED 14.6 SCT (MEXICO): NOT REGULATED 14.7 ADGR (AUS): NOT REGULATED

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 12/24/2015 15. REGULATORY INFORMATION 15.1 SARA Reporting This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. Requirements 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity: TSCA Inventory Status: 15.3 The components of this product are listed on the TSCA Inventory. **CERCLA Reportable Quantity** 15.4 NA (RQ): 15.5 Other Federal Requirements: This product contains petroleum distillates and may be subject to regulation by CWA 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. 15.7 State Regulatory Information: No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). 15.8 Other Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC: Irritant (Xi). Risk Phrases (R):43 - May cause sensitization by skin contact. Safety Phrases (S): 2-25 -26 -37- Keep out of reach of children. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 16. OTHER INFORMATION Other Information: WARNING! MAY CAUSE RESPIRATORY IRRITATION. Avoid breathing dust. Use only outdoors or in a wellventilated area. IF IHNALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. Store locked up. KEEP OUT OF REACH OF CHILDREN. 16.2 Terms & Definitions See last page of this Safety Data Sheet. This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910,1200. Other 16.3 Disclaimer government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Harbor Freight Tools USA, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition. 16.4 Prepared for: Harbor Freight Tools USA, Inc. 26541 Agoura Road HARBOR FREIGHT TOOLS

Quality Tools at Ridiculously Low Prices Calabasas, CA 91302 USA Tel: +1 (805) 388-1000 http://www.harborfreight.com 16.5 Prepared by: ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com

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SDS Revision Date: 12/24/2015

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number					
EXPOSURE LIMITS IN AIR:						
ACGIH American Conference on Governmental Industrial Hygienists						
С	Ceiling Limit					
ES Exposure Standard (Australia)						
IDLH	Immediately Dangerous to Life and Health					
OSHA	U.S. Occupational Safety and Health Administration					
PEL	Permissible Exposure Limit					
STEL	Short-Term Exposure Limit					
TLV	Threshold Limit Value					
TWA Time Weighted Average						

FIRST AID MEASURES:

CPR Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body

HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard			
1	1 Slight Hazard			
2	2 Moderate Hazard			
3	Severe Hazard			
4	Extreme Hazard			



PERSONAL PROTECTION RATINGS:

PERSONAL PROTECTION RATINGS.							
Α							
В							
С							
D							
Е							
F							











Synthetic Apron

Protective Clothing & Full Suit

Dust Respirator

Full Face Respirator

Dust & Vapor Half-Mask Respirator

Full Face

Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

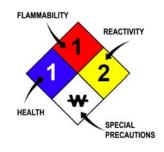
ML	Maximum Limit		
mg/m3	milligrams per cubic meter		
NA Not Available			
ND Not Determined			
NE Not Established			
NF Not Found			
NR	No Results		
ppm parts per million			
SCBA Self-Contained Breathing Apparatus			

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:						
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition					
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source					
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source					

HAZARD RATINGS:

TITALITATION .			
0	Minimal Hazard		
1	Slight Hazard		
2	Moderate Hazard		
3	Severe Hazard		
4	Extreme Hazard		
ACD	Acidic		
ALK	Alkaline		
COR	Corrosive		
₩	Use No Water		
ОХ	Oxidizer		
TREFOIL	Radioactive		



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s			
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal			
ppm	Concentration expressed in parts of material per million parts			
TD _{lo}	Lowest dose to cause a symptom			
TCLo	Lowest concentration to cause a symptom			
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TC _o , LC _{lo} , & LC _o				
IARC	International Agency for Research on Cancer			
NTP	National Toxicology Program			
RTECS	Registry of Toxic Effects of Chemical Substances			
BCF	Bioconcentration Factor			
TL _m	Median threshold limit			
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution			

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System	
DOT	U.S. Department of Transportation	
TC	Transport Canada	
EPA	U.S. Environmental Protection Agency	
DSL	Canadian Domestic Substance List	
NOHSC National Occupational Health and Safety Commission (Australia)		
NDSL Canadian Non-Domestic Substance List		
PSL	Canadian Priority Substances List	
TSCA	U.S. Toxic Substance Control Act	
EU	European Union (European Union Directive 67/548/EEC)	
WGK	Wassergefährdungsklassen (German Water Hazard Class)	
HMIS-III	National Paint & Coatings Association Hazardous Materials Identification System	

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

************	WORKE ENGLISHED COO MINTERNALO IDENTIFICATION (WILLIAM) CTOTEMI.								
	((2)	(3)	\odot	(18)				
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F		
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive		

EC (67/548/EEC) INFORMATION:

		M	*			X	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond			\Diamond		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment