

MSDS 860, 861, 865-5, 8630-30, 8655-55

H1DGL0860-1 BROTHERS RESEARCH CORPORATION  
D1 ACID CLEANER/PHOSPHORIC ACID/AMMONIUM BIFLUORIDE/SURFACTANTS

D1=====

D1 MATERIAL SAFETY DATA SHEET  
D1 EFFECTIVE DATE: 3/01/09 CODE: DGL0860-1

D1=====

D1 PHOSPHORIC ACID/AMMONIUM BIFLUORIDE/SURFACTANTS  
D1 SECTION 1 - PRODUCT AND COMPANY INFORMATION

D1=====

D1 PRODUCT NAME:  
D1 PHOSPHORIC ACID/AMMONIUM BIFLORIDE SURFACTANTS  
D1 COMMON NAME:  
D1 DURAGLOSS ALUMINUM CLEANER & BRIGHTNER #860,32oz  
D1 DURAGLOSS ALUMINUM CLEANER & BRIGHTNER #861,GAL  
D1 DURAGLOSS ALUMINUM CLEANER & BRIGHTNER #865,5 GAL  
D1 DURAGLOSS ALUMINUM CLEANER & BRIGHTNER #8630,30 GAL  
D1 DURAGLOSS ALUMINUM CLEANER & BRIGHTNER #8655,55 GAL  
D1 MANUFACTURER'S NAME: BROTHERS RESEARCH CORPORATION  
D1 2245 AIR PARK DRIVE  
D1 BURLINGTON, NORTH CAROLINA 27216-0317  
D1 EMERGENCY TELEPHONE NUMBERS: 1-336-229-6480  
D1 1-800-638-7245  
D1 CHEMTREC 1-800-424-9300  
D1 REVISION DATE 3/01/09

D1=====

D1 SECTION 2 - HAZARDOUS INGREDIENTS

CAS NO.	INGREDIENT	% BY WT.	V.P.
111-76-2	2 BUTOXYETHANOL	1 - 2%	0.6 mmHg 68 F
7664-38-2	PHOSPHORIC ACID	15-25%	6.0 mmHg 104.0 F
1341-49-7	AMMONIUM BIFLORIDE	3 - 5%	NOT DETERMINED

D1=====

D1 SECTION 3 - HAZARDS IDENTIFICATION  
D1 \*\*\*\*\*EMERGENCY OVERVIEW\*\*\*\*\*  
D1 \* CAUSES EYE IRRITATION. CLEAR LIQUID SUBSTANCE WITH ACID \*  
D1 \* ODOR. \*

D1 \*\*\*\*\*  
D1 CHRONIC CANCER INFORMATION: NO DATA  
D1 TERATOLOGY (BIRTH DEFECT) INFORMATION: NO DATA  
D1 REPRODUCTION INFORMATION: NOT LISTED

D1=====

D1 SECTION 4 - FIRST AID MEASURES  
D1 EYES - MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR.  
D1 FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.  
D1 SEEK MEDICAL ATTENTION.  
D1 SKIN - REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER.  
D1 RINSE SKIN FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF  
D1 IRRITATION DEVELOPS. LAUNDRER CLOTHING BEFORE USE.  
D1 INGESTION - DO NOT INDUCE VOMITING. CONTACT POISON CONTROL CENTER  
D1 OR PHYSICIAN IMMEDIATELY.  
D1 INHALATION - REMOVE TO FRESH AIR. IF NOT BREATHING GIVE  
D1 ARTIFICIAL RESPIRATION. SEEK IMMEDIATE MEDICAL  
D1 ATTENTION.

D1=====

D1 SECTION 5 - FIREFIGHTING MEASURES

D1 FLAMMABLE PROPERTIES:

D1 FLASH POINT : >200 DEG F

D1 FLAMMABLE LIMITS:

D1 LOWER FLAMMABLE LIMIT: NA

D1 UPPER FLAMMABLE LIMIT: NA

D1 HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON  
D1 MONOXIDE.

D1 EXTINGUISHING MEDIA: REGULAR FOAM, CARBON DIOXIDE, AND  
D1 DRY CHEMICAL.

D1 FIREFIGHTING INSTRUCTIONS: WATER CAN BE USED TO KEEP  
D1 EXPOSED CONTAINERS COOL, TO PROTECT.

D1 FIREFIGHTERS SHOULD WEAR NORMAL PROTECTIVE EQUIPMENT (FULL  
D1 BUNKER GEAR) AND POSITIVE-PRESSURE SELF CONTAINED BREATHING  
D1 APPARATUS.

D1=====

D1 SECTION 6 - ENVIRONMENTAL RELEASE MEASURES

D1 SMALL SPILL: ABSORB SPILL ON VERMICULITE FLOOR ABSORBENT  
D1 OR OTHER ABSORBENT MATERIAL.

D1 LARGE SPILL: PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD  
D1 BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN UP  
D1 HAS BEEN COMPLETED. STOP AT SPILL SOURCE  
D1 PREVENT FROM SPREADING. IF RUNOFF OCCURS,  
D1 NOTIFY AUTHORITIES AS REQUIRED. PUMP OR  
D1 VACUUM TRANSFER SPILLED PRODUCT TO CLEAN  
D1 CONTAINERS FOR RECOVERY. ABSORB  
D1 UNRECOVERABLE PRODUCT. TRANSFER CONTAMINATED  
D1 ABSORBENT, SOIL AND OTHER MATERIAL TO  
D1 CONTAINERS FOR DISPOSAL. CLOSE CONTAINER  
D1 TIGHTLY AND DISPOSE OF PROPERLY.

D1=====

D1 SECTION 7 - HANDLING AND STORAGE

D1 HANDLING: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS  
D1 WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN  
D1 PRODUCT RESIDUES, ALL HAZARD PRECAUTIONS GIVEN  
D1 IN THE DATA SHEET SHOULD BE OBSERVED.

D1 STORAGE: STORE IN WELL VENTILATED AREA. KEEP AWAY FROM  
D1 HEAT, SPARKS AND FLAMES. EMPTIED CONTAINERS  
D1 MAY RETAIN PRODUCT RESIDUES. PRECAUTIONS APPLY  
D1 TO EMPTIED CONTAINERS.

D1=====

D1 SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

D1 ENGINEERING CONTROLS: USE ONLY WITH ADEQUATE VENTILATION.

D1 RESPIRATORY PROTECTION: WHEN RESPIRATORY PROTECTION IS  
D1 REQUIRED, OR CONCENTRATIONS ARE UNKNOWN USE  
D1 NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR  
D1 EQUIPPED WITH ORGANIC VAPOR CARTRIDGES OR  
D1 CANISTERS. FOR EMERGENCY AND OTHER CONDITIONS  
D1 WHERE EXPOSURE LIMIT MAY BE GREATLY EXCEEDED,  
D1 USE AN APPROVED POSITIVE PRESSURE SELF CONTAINED  
D1 BREATHING APPARATUS OR POSITIVE PRESSURE AIRLINE  
D1 WITH AUXILIARY SELF CONTAINED AIR SUPPLY.

D1 SKIN PROTECTION: FOR BREIF CONTACT, NO PRECAUTIONS OTHER  
D1 THAN CLEAN BODY-COVERING SHOULD BE NEEDED. USE  
D1 IMPERVIOUS GLOVES SUCH AS NEOPRENE.

D1 EYE PROTECTION: USE CHEMICAL GOGGLES IN COMPLIANCE WITH

D1 OSHA REGULATIONS.  
D1=====

D1 SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES  
D1 BOILING POINT: 212 F  
D1 MELTING POINT: NO DATA  
D1 VAPOR PRESSURE: 140 @ 130 F  
D1 SOLUBILITY IN WATER: COMPLETE  
D1 SPECIFIC GRAVITY: H2O= >1  
D1 pH: 1 - 2  
D1 ODOR: BUTYL  
D1 APPEARANCE: CLEAR LIQUID  
D1=====

D1 SECTION 10 - STABILITY AND REACTIVITY  
D1 CHEMICAL STABILITY: STABLE  
D1 INCOMPATIBILITY: AVOID CONTACT WITH:  
D1 STRONG OXIDIZING AGENTS, HEAT AND OPEN FLAME.  
D1 HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND CARBON DIOXIDE  
D1 HAZARDOUS POLYMERIZATION: NO DATA  
D1=====

D1 SECTION 11 - TOXICOLOGICAL INFORMATION  
D1 NO DATA  
D1=====

D1 SECTION 12- - ECOLOGICAL INFORMATION  
D1 NO DATA  
D1=====

D1 SECTION 13 - DISPOSAL CONSIDERATIONS  
D1 WASTE MANAGEMENT INFORMATION: DISPOSE OF IN ACCORDANCE  
D1 WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL  
D1 REGULATIONS.  
D1=====

D1 SECTION 14 -TRANSPORT INFORMATION  
D1 DOT INFORMATION - 49 CFR 172.101  
D1 DOT DESCRIPTION:  
D1 CONSUMER COMMODITY HAZARD CLASS: ORM-D  
D1 CONTAINER/MODE: 55 GAL DRUM/TRUCK PACKAGE  
D1 NOS COMPONENT: NONE  
D1 RQ (REPORTABLE QUANTITY) - 49 CFR 172.101  
D1 NOT APPLICABLE  
D1=====

D1 SECTION 15 - REGULATORY INFORMATION  
D1 US FEDERAL REGULATIONS:  
D1 TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS  
D1 TSCA (UNITED STATES) THE INTENTIONAL INGREDIENTS OF  
D1 THIS PRODUCT ARE LISTED.  
D1 CERCLA RQ - 40 CFR 302.4  
D1 NONE LISTED  
D1 SARA 302 COMPONENTS - 40 CFR 355 APPENDIX A  
D1 NONE  
D1 SECTION 311/312 HAZARD CLASS - 40 CFR 370.2  
D1 IMMEDIATE(X) DELAYED(X) FIRE( ) REACTIVE( ) SUDDEN( )  
D1 RELEASE OF PRESSURE  
D1 SARA 313 COMPONENTS - 40 CFR 372.65  
D1 NONE  
D1 STATE AND LOCAL REGULATIONS  
D1 CALIFORNIA PROPOSITION 65  
D1 NONE  
D1=====

D1 SECTION 16 - OTHER INFORMATION  
D1 THE INFORMATION HEREING IS GIVEN IN GOOD FAITH, BUT NO  
D1 WARRANTY, EXPRESS OR IMPLIED, IS MADE. CONSULT CHEMTREC  
D1 AT 1-800-424-9300 FOR FURTHER INFORMATION.  
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