

H1DGL0551-1 BROTHERS RESEARCH CORPORATION
D1 PHOSPHORIC ACID/AMMONIUM BIFLORIDE/SURFACTANTS

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D1 MATERIAL SAFETY DATA SHEET
D1 EFFECTIVE DATE: 1/1/13 CODE: DGL0551-1

D1=====

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

D1=====

D1 PRODUCT NAME:
D1 PHOSPHORIC ACID/AMMONIUM BIFLORIDE/SURFACTANTS
D1 COMMON NAME: DURAGLOSS ALUMINUM CLEANER & BRIGHTNER # 551, 22oz
D1 DURAGLOSS ALUMINUM CLEANER & BRIGHTNER # 552, 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 1/1/13

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	6-10%	6.0 mmHg 104.0 F
1341-49-7	AMMONIUM BIFLORIDE	1-2%	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: NO DATA AVAILABE

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 LOCAL POISON 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 AUTOIGNITION TEMPERATURE: 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: 212.0 F
D1 MELTING POINT: NO DATA

D1 VAPOR PRESSURE: 140 @ 130 DEG 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 & 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.

