

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

**PRODUCT IDENTITY – SECTION I**

PRODUCT NAME: Brill Part 2 (C)	EMERGENCY PHONE: Chem Trec / 800-424 -9300
CAS #: See Below	REVISION DATE: May 6, 2008
MANUFACTURER: Arcal Chemicals, Inc.	OTHER PHONE: 301-336-9300
ADDRESS: 223 West Hampton Avenue Capitol Heights, MD 20743	FAX: 301-336-6597

HAZARDOUS INGREDIENTS / OTHER COMPONENTS – SECTION II

MATERIAL / CAS #	%	ACGIH (TLV – TWA)	OSHA (PEL -TWA)
Nitric Acid Solution/ CAS # 7697-37-2		2 ppm	2 ppm

PHYSICAL DATA – SECTION III

APPEARANCE Clear Solution	ODOR Acid Odor	MELT POINT N/A	SPECIFIC GRAVITY 1.36
VAPOR DENSITY N/A	% VOLATILE BY VOLUME 100 %	BULK DENSITY 11.3 LB/Gal	BOILING POINT 110 C
VAPOR PRESSURE mmHg °f N/A	% SOLUBILITY (H2O) Complete	PH of 1% SOLUTION = 1 - 2	

FIRE AND EXPLOSION HAZARD DATA – SECTION IV

FLASH POINT & METHOD: None	<table border="1"> <thead> <tr> <th colspan="2">NFPA FIRE HAZARDS</th> </tr> </thead> <tbody> <tr> <td>HEALTH</td> <td style="text-align: center;">4</td> </tr> <tr> <td>FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td>REACTIVITY</td> <td style="text-align: center;">3</td> </tr> <tr> <td>SPECIFIC</td> <td style="text-align: center;">0</td> </tr> </tbody> </table>	NFPA FIRE HAZARDS		HEALTH	4	FLAMMABILITY	0	REACTIVITY	3	SPECIFIC	0
NFPA FIRE HAZARDS											
HEALTH		4									
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SPECIFIC	0										
FLAMMABLE LIMITS: N/A											
EXTINGUISHING MEDIA: Water, dry chemicals, foam											
SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus.											
UNUSUAL FIRE AND EXPLOSION HAZARDS: Acid Vapor is highly toxic DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: Hydrogen Fluoride & Oxides of Nitrogen EMPTY CONTAINER: Residue is harmful, rinse completely with alkaline detergent and water before disposal.	4 = EXTREME 3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICANT										

REACTIVITY DATA – SECTION V

BRILL C (Cont.)

Stability: Stable **Conditions to avoid:** Incompatibilities**Incompatibility (Material to avoid):** Avoid contact with easily oxidizable materials like alcohols & alkaline material.**Hazardous decomposition by-products:****Hazardous Polymerization:** **Conditions to avoid:****HEALTH HAZARD DATA – SECTION VI****Route(s) of Entry:** **Inhalation?** X **Skin?** X **Ingestion?** Unlikely**Health Hazards (Acute and Chronic):**Severe burns on skin and eyes; irritation of respiratory track;
Chronic exposure could result in skin irritation and/or lung problems**Carcinogenicity:** NTP? -- **IARC Monographs?** -- **OSHA?** --**Medical conditions generally aggravated by exposure:****EMERGENCY AND FIRST AID PROCEDURES****EYE CONTACT:** Flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.**SKIN CONTACT:** Remove any contaminated clothing and wash skin thoroughly with soap & water.**INHALATION:** If over come by vapor, remove from exposure.**INGESTION:** If ingested, DO NOT INDUCE VOMITING. Call a physician immediately.**PRECAUTIONS FOR SAFE HANDLING AND USE – SECTION VII****Steps to be taken in case material is released or spilled:** Collect with inert material. Flush area with plenty of water.**Waste Disposal Method:** Dilute with plenty of water and neutralize with caustic soda solution. Dispose in accordance with local, state, and federal regulations.**Precautions to be taken in handling and storing:** Keep containers and storage containers closed when not in use.**CONTROL MEASURES – SECTION VIII****Respiratory or breathing apparatus:** Use supplied-air respiratory protection in confined or enclosed spaces.**Ventilation:** **Local Exhaust:** Yes **Special:**
Mechanical: **Other:****Protective Gloves:** Chemical resistant gloves. **Eye Protection:** Use goggles or face shield.**Other Protective Clothing or Equipment:** Chemical resistant clothing to avoid contamination of regular clothing.**TRANSPORTATION INFORMATION****Proper Shipping Name:** Nitric Acid Solution / 8 (Corrosive Material) / UN 2031/ PG : II