



| I - PRODUCT IDENTIFICATION AND USE                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |                                                                                      | MSDS ID: 0827          |  |
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| <b>PRODUCT NAME: BRILL SHEEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |                                                                                      |                        |  |
| <b>USE:</b> Acid Circulation Cleaner                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |              |                                                                                      |                        |  |
| <b>SUPPLIER:</b><br>JohnsonDiversey Canada, Inc.<br>2401 Bristol Circle<br>Oakville Ontario, L6H 6P1, Canada                                                                                                                                                                                                                                                                                                                                                                                             |              |              | <b>EMERGENCY PHONE:</b><br><br><b>1-800-668-7171</b>                                 |                        |  |
| <b>WHMIS CLASSIFICATION:</b> E<br><b>CHEMICAL FAMILY:</b> mineral acid                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              | <b>TRADE NAME / SYNONYMS:</b> not applicable<br><b>CHEMICAL NAME:</b> not applicable |                        |  |
| <b>II - HAZARDOUS INGREDIENTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |              |                                                                                      |                        |  |
| <b>HAZARDOUS INGREDIENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>% w/w</b> | <b>CAS #</b> | <b>LD50 / LC50</b>                                                                   | <b>Route / Species</b> |  |
| Sulphuric acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1-5          | 007664-93-9  | LD50 2140 mg/kg                                                                      | oral/rat               |  |
| Phosphoric acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10-30        | 007664-38-2  | LD50 1530 mg/kg                                                                      | oral/rat               |  |
| <b>III - HANDLING AND DISPOSAL PROCEDURES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |                                                                                      |                        |  |
| <b>PERSONAL PROTECTIVE EQUIPMENT:</b><br><b>Gloves:</b> Neoprene, Nitrile <b>Eye:</b> safety goggles <b>Footwear:</b> not normally required<br><b>Respiratory:</b> If mists are generated, use NIOSH approved mask <b>Other:</b> Rubber apron                                                                                                                                                                                                                                                            |              |              |                                                                                      |                        |  |
| <b>SPECIAL HANDLING PROCEDURES AND EQUIPMENT:</b> Do not breathe mist, spray or vapours. Avoid eye and skin contact.                                                                                                                                                                                                                                                                                                                                                                                     |              |              |                                                                                      |                        |  |
| <b>VENTILATION REQUIREMENTS:</b> mechanical exhaust                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |              |                                                                                      |                        |  |
| <b>INCOMPATIBILITY (Material to Avoid):</b> Alkaline and chlorinated materials. Organic materials.                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |                                                                                      |                        |  |
| <b>SPILL PROCEDURES:</b> Contain the spill. Do not allow the spilled product to go to drain. Mop up or soak up with absorbent clay for disposal. Wash spill area with large volumes of water.                                                                                                                                                                                                                                                                                                            |              |              |                                                                                      |                        |  |
| <b>WASTE DISPOSAL:</b> Dispose according to municipal, provincial, and federal regulations.                                                                                                                                                                                                                                                                                                                                                                                                              |              |              |                                                                                      |                        |  |
| <b>STORAGE / SHIPPING REQUIREMENT:</b> Store in a cool dry area in a closed container. UN1760                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |                                                                                      |                        |  |
| <b>IV - PHYSICAL PROPERTIES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |              |                                                                                      |                        |  |
| <b>APPEARANCE / ODOUR:</b> Clear, red liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |              |                                                                                      |                        |  |
| <b>S.G. / BULK DENSITY(g/cc):</b> 1.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              | <b>pH:</b> < 1.0                                                                     |                        |  |
| <b>VAPOUR PRESSURE (mmHg):</b> not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              | <b>VAPOUR DENSITY (air=1):</b> not applicable                                        |                        |  |
| <b>ODOUR THRESHOLD:</b> not available                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |              | <b>BOILING POINT:</b> 100°C                                                          |                        |  |
| <b>FREEZING POINT:</b> not available                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |              | <b>PERCENT VOLATILE:</b> 80%                                                         |                        |  |
| <b>SOLUBILITY IN WATER:</b> soluble                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |              | <b>EVAPORATION RATE (water=1):</b> not applicable                                    |                        |  |
| <b>V - TOXICOLOGICAL PROPERTIES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |              |                                                                                      |                        |  |
| <b>EFFECTS OF ACUTE EXPOSURE TO MATERIAL:</b><br><b>EYES:</b> Corrosive. May cause severe irritation. May cause permanent damage if not treated promptly.<br><b>SKIN:</b> Corrosive. May cause severe irritation. May cause temporary or permanent damage if not treated promptly.<br><b>INGESTION:</b> Corrosive. May cause severe irritation of the digestive tract. May cause temporary or permanent damage if not treated promptly.<br><b>INHALATION:</b> May cause irritation of respiratory tract. |              |              |                                                                                      |                        |  |
| <b>LD50 (calculated):</b> 8100 mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |              | <b>LC50 (calculated):</b> not available                                              |                        |  |

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| <b>OTHER TOXIC EFFECTS:</b> TLV-TWA 1 mg/m3 as Sulphuric Acid. IARC has classified "occupational exposure to strong acid mists containing sulphuric acid" as being carcinogenic to humans. The route of entry is inhalation of these mists resulting in respiratory (laryngeal) cancers. There is no evidence that the liquid is in any way a carcinogen.                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                |
| <b>EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:</b> not available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                |
| <b>VI - FIRST AID MEASURES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                |
| <b>EYES:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician immediately.                     |
| <b>SKIN:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Flush affected area thoroughly with water. If irritation develops, contact a physician.                                                        |
| <b>INGESTION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Drink large volumes of water. Never give anything by mouth to an unconscious patient. Do not induce vomiting. Contact a physician immediately. |
| <b>INHALATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remove patient to fresh air. Get medical attention for any breathing difficulty.                                                               |
| <b>VII - FIRE AND EXPLOSION DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                |
| <b>FLAMMABLE:</b> No. Will generate explosive hydrogen gas on contact with metals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |
| <b>FLASH POINT, °C:</b> not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>AUTO IGNITION TEMPERATURE, °C:</b> N/Ap                                                                                                     |
| <b>EXTINGUISHING MEDIA:</b> Water [x] Dry Chemical [x] Carbon Dioxide [x] Foam [x] Other [ ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                |
| <b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Wear self-contained breathing apparatus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                |
| <b>HAZARDOUS COMBUSTION PRODUCTS:</b> not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                |
| <b>EXPLOSIVE SENSITIVITY TO:</b> not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                |
| <b>VIII - REACTIVITY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                |
| <b>STABILITY:</b> Stable [x] Unstable [ ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                |
| <b>CONDITIONS TO AVOID:</b> not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                |
| <b>INCOMPATIBILITY (Material to Avoid) :</b> Alkaline and chlorinated materials. Aluminium, brass, copper, iron, mild steel. Organic materials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Contact with chlorinated materials will release chlorine gas. Contact with alkali will generate heat. Contact with soft metals forms flammable hydrogen gas. Contact with organic materials will generate heat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |
| <b>REACTIVITY:</b> not dangerously reactive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                |
| <b>IX - MSDS PREPARATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                |
| <b>SOURCES USED:</b> RTECS, Industrial Chemicals Safety Manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>PREPARED BY:</b> JohnsonDiversey Canada, Inc.<br>Regulatory Department<br>Food Division<br>Phone (905) 829-1200                             |
| <b>PREPARATION DATE:</b> April 15, 2003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |
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