



## I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 2918430

**PRODUCT NAME:** TAR AND ASPHALT CLEANER 150**USE:** Tar and asphalt cleaner**SUPPLIER:**JohnsonDiversey Canada, Inc.  
2401 Bristol Circle  
Oakville Ontario, L6H 6P1, Canada**EMERGENCY PHONE:****1-800-668-7171****WHMIS CLASSIFICATION:** B3 D2B E**CHEMICAL FAMILY:** surfactant caustic alkali**TRADE NAME / SYNONYMS:** not applicable**CHEMICAL NAME:** not applicable

## II - HAZARDOUS INGREDIENTS

| HAZARDOUS INGREDIENT             | % w/w    | CAS #       | LD50 / LC50     | Route / Species |
|----------------------------------|----------|-------------|-----------------|-----------------|
| Cyclohexanol                     | 3-7      | 000108-93-0 | LD50 2060 mg/kg | oral/rat        |
| Alcohol ethoxylated              | 3-7      | 068002-97-1 | LD50 2750 mg/kg | oral/rat        |
| Potassium hydroxide              | 0.5- 1.5 | 001310-58-3 | LD50 273 mg/kg  | oral/rat        |
| Naphtha petroleum                | 30-60    | 064742-94-8 | LD50 3000 mg/kg | oral/rat        |
| Sodium dodecylbenzene sulphonate | 3-7      | 025155-30-0 | LD50 1260 mg/kg | oral/rat        |
| Pine oil                         | 3-7      | 008002-09-3 | LD50 3200mg/kg  | oral/rat        |

## III - HANDLING AND DISPOSAL PROCEDURES

**PERSONAL PROTECTIVE EQUIPMENT:****Gloves:** Impermeable gloves**Eye:** Safety goggles**Footwear:** Not required**Respiratory:** If mists are generated, use NIOSH approved mask**Other:** Not required**SPECIAL HANDLING PROCEDURES AND EQUIPMENT:** Do not breathe mist, spray or vapours . Avoid eye and skin contact.**VENTILATION REQUIREMENTS:** general ventilation**INCOMPATIBILITY (Material to Avoid):** Strong oxidizers**SPILL PROCEDURES:** Wear protective clothing. Contain the spill. Do not allow the spilled product to go to drain. Mop up or soak up with absorbent clay for disposal.**WASTE DISPOSAL:** Dispose according to municipal, provincial, and federal regulations. Wash spill area with large volumes of water.**STORAGE / SHIPPING REQUIREMENT:** Store in a cool dry area in a closed container.

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## IV - PHYSICAL PROPERTIES

**APPEARANCE / ODOUR:** Clear amber liquid**S.G. / BULK DENSITY(g/cc):** 0.95**pH:** (Conc.) 12.7 - 13.5**VAPOUR PRESSURE (mmHg):** not available**VAPOUR DENSITY (air=1):** not applicable**ODOUR THRESHOLD:** not available**BOILING POINT:** approx. 100°C**FREEZING POINT:** -4°C**PERCENT VOLATILE:** 75%**SOLUBILITY IN WATER:** soluble**EVAPORATION RATE (water=1):** less than 1

## V - TOXICOLOGICAL PROPERTIES

**EFFECTS OF ACUTE EXPOSURE TO MATERIAL:****EYES:** Corrosive. May cause severe irritation. May cause permanent damage if not treated promptly.**SKIN:** Corrosive. May cause severe irritation.

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| <b>INGESTION:</b> Harmful or fatal if swallowed. May cause severe irritation of the digestive tract. May cause temporary or permanent damage if not treated promptly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                          |
| <b>INHALATION:</b> Breathing spray or mist may cause respiratory irritation. Aspiration into the lungs may cause chemical pneumonitis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                          |
| <b>LD50 (calculated):</b> 3300 mg/kg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>LC50 (calculated):</b> Not available                                                                                  |
| <b>OTHER TOXIC EFFECTS:</b> None known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                          |
| <b>EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:</b> None known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                          |
| <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> Yes, combustible if heated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                          |
| <b>FLASH POINT, °C:</b> 68°C (Pensky-Martens)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>AUTO IGNITION TEMPERATURE, °C:</b> N/A                                                                                |
| <b>EXTINGUISHING MEDIA:</b> Water [X] Dry Chemical [X] Carbon Dioxide [X] Foam [X] Other [ ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                          |
| <b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Use water to extinguish only if large volumes are available to flood area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                          |
| <b>HAZARDOUS COMBUSTION PRODUCTS:</b> Oxides of carbon.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                          |
| <b>EXPLOSIVE SENSITIVITY TO:</b> not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                          |
| <b>VIII - REACTIVITY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                          |
| <b>STABILITY:</b> Stable [X] Unstable [ ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                          |
| <b>CONDITIONS TO AVOID:</b> high temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                          |
| <b>INCOMPATIBILITY (Material to Avoid) :</b> Strong oxidizers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                          |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Carbon monoxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                          |
| <b>REACTIVITY:</b> not dangerously reactive.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                          |
| <b>IX - MSDS PREPARATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                          |
| <b>SOURCES USED:</b> RTECS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>PREPARED BY:</b> JohnsonDiversey Canada, Inc.<br>Regulatory Department<br>Industrial Division<br>Phone (905) 829-1200 |
| <b>PREPARATION DATE:</b> April 15, 2003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                          |
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