



MATERIAL SAFETY DATA SHEET

in accordance with 1907/2006/EC

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: 803 Industrial & Marine Solvent II

Date of Preparation: 6 July 2007

MSDS No. 281-9

Hazardous according to criteria of Worksafe Australia.

Company:

A.W. CHESTERTON COMPANY
860 Salem Street
Groveland, MA 01834-1507, USA
Tel.: +1 978-469-6446 Fax: +1 978-469-6785
(Mon. - Fri. 8:30 - 5:00 PM EST)
E-mail (questions): ProductMSDSs@chesterton.com
MSDS requests: www.chesterton.com

Supplier:

For Chemical Emergency:

24 hours per day, 7 days per week

Call Infotrac: 1-800-535-5053

Outside N. America: +1 352-323-3500 (collect)

Use: A high performance water based alkaline cleaner.

2. HAZARDS IDENTIFICATION

Causes burns. The principal safety hazard associated with this product is its high alkaline content (pH 13.1-13.7). If ingested in large quantities, this product could cause internal damage to the body. Wash immediately after any contact.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Ingredients ¹ | % Wt. | CAS No. | EC No. | Symbol | R-phrases |
|------------------------------------|-------|-----------|-----------|--------|-----------|
| Potassium Hydroxide | 1-2 | 1310-58-3 | 215-181-3 | C | 22-35 |
| Sodium Carbonate | 1-5 | 497-19-8 | 207-838-8 | Xi | 36 |

See section 15 for text of R-phrases on the label and section 16 for others.

4. FIRST AID MEASURES

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| Inhalation: | not applicable |
| Skin Contact: | Wash skin with soap and water. Wash clothing before reuse. Contact physician. |
| Eye Contact: | Flush eyes for at least 30 minutes with large amounts of water. Contact physician. |
| Ingestion: | Do not induce vomiting. If conscious, drink large quantities of water. Contact physician immediately. |
| Advice to Physician: | Treat symptoms. |

5. FIRE-FIGHTING MEASURES

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| Extinguishing Methods: | Carbon Dioxide, dry chemical, foam or water fog. |
| Unusual Fire and Explosion Hazards: | none |
| Special Fire Fighting Measures: | Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus. |
| Flammability Classification: | — |
| HAZCHEM Emergency Action Code: | 2 Z |

6. ACCIDENTAL RELEASE MEASURES

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| Personal Precautions: | Utilize exposure controls and personal protection as specified in Section 8. |
| Environmental Precautions: | No special requirements. |
| Methods of Clean Up: | Contain spill to a small area. Pick up with absorbent material (sand, sawdust, clay, etc.) and place in a suitable container for disposal. |

7. HANDLING AND STORAGE

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| Handling: | Keep container closed when not in use. Take off immediately all contaminated clothing. Alkaline materials sometimes exhibit delayed effects. Wash immediately after any contact. |
| Storage: | Store in a cool, dry area. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Hazardous Ingredients | OSHA | | ACGIH TLV | | AUSTRALIA | |
|-----------------------|------|-------------------|-----------|-------------------|-----------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ | ppm | mg/m ³ |
| Potassium Hydroxide | — | — | — | (ceiling) 2 | — | (ceiling) 2 |
| Sodium Carbonate | — | — | — | — | — | — |

| | |
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| Respiratory Protection: | Not normally needed. If exposure limits are exceeded, use an approved organic/acid/base vapor respirator. |
| Ventilation: | Use only in well-ventilated areas. If exposure limits are exceeded, provide adequate ventilation. |
| Protective Gloves: | Waterproof gloves (e.g., rubber, latex, plastic) |
| Eye Protection: | Safety goggles. |
| Other: | Impervious clothing as necessary to prevent skin contact. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------------|----------------|--------------------------------------|----------------|
| Physical state | clear liquid | Odour | mild odor |
| Colour | red | Vapour pressure @ 20°C | not determined |
| Initial boiling point | 100°C (212°F) | % Aromatics by weight | 0 |
| Melting point | 0°C (32°F) | pH | 13.1 – 13.7 |
| % Volatile (by volume) | 89% | Density | 1,06 kg/l |
| Flash point | none | Weight per volume | 8.9 lbs/gal |
| Method | PM Closed Cup | Coefficient (water/oil) | > 1 |
| Viscosity | ≤ 5 cps @ 25°C | Vapour density (air=1) | > 1 |
| Autoignition temp. | not applicable | Rate of evaporation (ether=1) | < 1 |
| Explosion limits | not determined | Solubility in water | complete |
| | | Other | none |

10. STABILITY AND REACTIVITY

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| Stability: | Stable |
| Hazardous Polymerization: | Will not occur. |
| Hazardous Decomposition Products: | Carbon Monoxide, Nitrous Oxide and other toxic fumes. |
| Conditions to Avoid: | none |
| Materials to Avoid: | Aluminum, Zinc and Tin; alloys of Aluminum, Zinc and Tin and strong oxidizers like liquid Chlorine and concentrated Oxygen. |

11. TOXICOLOGICAL INFORMATION

| Primary Route of Exposure Under Normal Use: | Skin and eye contact. | | | | | | | | | | | | |
|--|--|------------------|------|--------|---------------------|----------------|-----------|------------------|----------------------|------------------|------------------|----------------|------------|
| Acute Effects: | Direct contact causes eye, skin and mucous membrane burns. | | | | | | | | | | | | |
| | <table><tr><th>Substance</th><th>Test</th><th>Result</th></tr><tr><td>Potassium Hydroxide</td><td>LD50 oral, rat</td><td>365 mg/kg</td></tr><tr><td>Sodium Carbonate</td><td>LC50 inhalation, rat</td><td>2.3 mg/l/2 hours</td></tr><tr><td>Sodium Carbonate</td><td>LD50 oral, rat</td><td>4090 mg/kg</td></tr></table> | Substance | Test | Result | Potassium Hydroxide | LD50 oral, rat | 365 mg/kg | Sodium Carbonate | LC50 inhalation, rat | 2.3 mg/l/2 hours | Sodium Carbonate | LD50 oral, rat | 4090 mg/kg |
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| Sodium Carbonate | LD50 oral, rat | 4090 mg/kg | | | | | | | | | | | |
| Chronic Effects: | none | | | | | | | | | | | | |
| Other Information: | As per 29 CFR 1910.1200 (Hazard Communication), this product contains no carcinogens as listed in the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or the Occupational Safety and Health Administration (OSHA). | | | | | | | | | | | | |

12. ECOLOGICAL INFORMATION

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| Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances. | |
| Mobility: | Liquid. Soluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). |
| Degradability: | OECD 301E (Dissolved Organic Carbon - DOC): 83% Biodegradability. |
| Accumulation: | not determined |
| Ecotoxicity: | Many aquatic species are intolerant of pH levels in excess of 10. |

13. DISPOSAL CONSIDERATIONS

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| Incinerate or landfill absorbed material. Liquids may be amenable for water treatment with absorption of organics after neutralization. Check local, state and national/federal regulations and comply with the most stringent requirement. | |
| EWC-code: | 20 01 29 |

14. TRANSPORT INFORMATION

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| TDG: | POTASSIUM HYDROXIDE SOLUTION, 8, UN1814, II, ERG NO. 154 | U.S. DOT : | Shipping Name: POTASSIUM HYDROXIDE SOLUTION |
| IMDG: | POTASSIUM HYDROXIDE SOLUTION, 8, UN1814, II, ERG NO. 154, Ems No F-A, S-B | | Hazard Class: 8 |
| IATA/ICAO: | POTASSIUM HYDROXIDE SOLUTION, 8, UN1814, II | | UN/NA #: UN1814 |
| ADR/RID: | 1814, POTASSIUM HYDROXIDE SOLUTION, 8, II, ADR | | Packaging Group #: II |
| | | | Emergency Response Guide Book No. 154 |
| | | | NOTE: Shipped as Consumer Commodity ORM-D in packaging having a rated capacity gross weight of 66 lb. or less and 1 Liter or less. (49 CFR 173.150(c)). |

15. REGULATORY INFORMATION

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| European Classification¹: | C - Corrosive |
| R-Phrase(s): | R34 Causes burns. |
| S-Phrase(s): | S23C Do not breathe vapour/spray. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S51 Use only in well-ventilated areas. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S28A After contact with skin, wash immediately with plenty of soap and water. |
| Name of the substances on the label: | Potassium Hydroxide |
| Other information: | none |

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| Canadian Classification¹: | E: Corrosive materials |
| Risk Phrase(s): | Causes burns. |
| Precautionary and First Aid Measure(s): | Do not breathe vapour/spray. Wear suitable protective clothing, gloves and eye/face protection. Use only in well-ventilated areas. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). After contact with skin, wash immediately with plenty of soap and water. |
| Other Information: | none |

16. OTHER INFORMATION

| | | | | | | | | | |
|--------------------------------|--|---------------|----------|---------------------|----------|-------------------|----------|----------------------------|----------|
| US EPA SARA TITLE III | Hazardous Materials Identification System (HMIS) | | | | | | | | |
| 312 Hazards : Immediate | <div> <div> <div>313 Chemicals : none</div> </div> <div> 4 = Severe Hazard 3 = Serious Hazard 2 = Moderate Hazard 1 = Slight Hazard 0 = Minimal Hazard * = See Section 8 </div> </div> <table> <tr> <td>HEALTH</td><td>3</td></tr> <tr> <td>FLAMMABILITY</td><td>0</td></tr> <tr> <td>REACTIVITY</td><td>1</td></tr> <tr> <td>Personal Protection</td><td>*</td></tr> </table> | HEALTH | 3 | FLAMMABILITY | 0 | REACTIVITY | 1 | Personal Protection | * |
| HEALTH | 3 | | | | | | | | |
| FLAMMABILITY | 0 | | | | | | | | |
| REACTIVITY | 1 | | | | | | | | |
| Personal Protection | * | | | | | | | | |

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|-------------------|----------------------------|-----------------------------|
| JAPAN PRTR | Class I Chemicals : | Class II Chemicals : |
| | none | none |

| | |
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| Risk phrases in section 3: | R22: Harmful if swallowed. R35: Causes severe burns. R36: Irritating to eyes. |
| Changes to the MSDS in this revision: | section 1; updated to new format. |

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the accuracy of the data or the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.