

**SAFETY DATA SHEET**

in accordance with 29 CFR 1910.1200 / WHMIS 2015 / GHS

**Revision date:** 17 June 2019

**Initial date of issue:** 6 July 2007

**SDS No.** 281-15

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

803 Industrial & Marine Solvent II

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

A high performance water based alkaline cleaner.

**1.3. Details of the supplier of the safety data sheet**

**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)  
SDS requests: www.chesterton.com  
E-mail (SDS questions): ProductMSDSs@chesterton.com  
E-mail: customer.service@chesterton.com

**Supplier:**

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive,  
Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055

**1.4. Emergency telephone number**

24 hours per day, 7 days per week  
Call Infotrac: 1-800-535-5053  
Outside N. America: +1 352-323-3500 (collect)  
NSW Poisons Information Centre (Australia): 13 11 26

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**2.1.1. Classification according to 29 CFR 1910.1200 / WHMIS 2015 / GHS**

Skin corrosion, Category 1B, H314  
Reproductive toxicity, Category 1B, H360D

**2.1.2. Australian statement of hazardous nature**

Hazardous according to criteria of Safe Work Australia.

**2.1.3. Additional information**

For full text of H-statements: see SECTIONS 2.2 and 16.

**2.2. Label elements**

**Labeling according to 29 CFR 1910.1200 / WHMIS 2015 / GHS**

**Hazard pictograms:**



**Signal word:**

Danger

**Hazard statements:**

H314 Causes severe skin burns and eye damage.  
H360D May damage the unborn child.

<b>Precautionary statements:</b>	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P260	Do not breathe mist/spray.
	P264	Wash hands, face and any exposed skin thoroughly after handling.
	P280	Wear protective gloves/clothing and eye/face protection.
	P303/361/353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P304/340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P301/330/331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P310	Immediately call a POISON CENTER or doctor.
	P308/313	IF exposed or concerned: Get medical advice/attention.
	P363	Wash contaminated clothing before reuse.
	P405	Store locked up.
	P501	Dispose of contents/container to an approved waste disposal plant.

**Supplemental information:** None

### 2.3. Other hazards

None known

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Hazardous Ingredients <sup>1</sup>	% Wt.	CAS No./	GHS Classification
Sodium carbonate	1-5	497-19-8	Eye Irrit. 2, H319
Hexyl D-glucoside	1-5	54549-24-5	Eye Dam. 1, H318
Potassium hydroxide	1-2	1310-58-3	Acute Tox. 4, H302 Skin Corr. 1A, H314 Met. Corr. 1, H290
N-methyl-2-pyrrolidone*	0.1-1	872-50-4	Repr. 1B, H360D Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

\*Included on the EU Candidate List of substances of very high concern for Authorisation.  
For full text of H-statements: see SECTION 16.

<sup>1</sup> Classified according to: • 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F)  
• WHMIS 2015, Safe Work Australia, GHS

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>Inhalation:</b>	Remove to fresh air. If not breathing, administer artificial respiration. Contact physician immediately.
<b>Skin contact:</b>	Flood area with water while removing contaminated clothing. Wash clothing before reuse. Wash skin with soap and water. Contact physician immediately.
<b>Eye contact:</b>	Flush eyes for at least 15 minutes with large amounts of water. Contact physician immediately.
<b>Ingestion:</b>	Do not induce vomiting. If conscious, drink large quantities of water. Contact physician immediately.
<b>Protection of first-aiders:</b>	No action shall be taken involving any personal risk or without suitable training. Avoid contact with the product while providing aid to the victim. Do not breathe mist. See section 8.2.2 for recommendations on personal protective equipment.

### 4.2. Most important symptoms and effects, both acute and delayed

Direct contact can cause severe eye and skin irritation; possibly burns. Repeated or prolonged exposures to skin that cause irritation may cause a chronic dermatitis.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

**SECTION 5: FIRE-FIGHTING MEASURES****5.1. Extinguishing media**

**Suitable extinguishing media:** Nonflammable. Use extinguisher appropriate to the surrounding fire.

**Unsuitable extinguishing media:** None

**5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products may include: Carbon Monoxide, Carbon Dioxide and other toxic fumes.

**5.3. Advice for firefighters**

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

**Flammability Classification:** –

**HAZCHEM Emergency Action Code:** 2 Z

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Utilize exposure controls and personal protection as specified in Section 8.

**6.2. Environmental Precautions**

No special requirements.

**6.3. Methods and material for containment and cleaning up**

Contain spill to a small area. Pick up with absorbent material (sand, sawdust, clay, etc.) and place in a suitable container for disposal.

**6.4. Reference to other sections**

Refer to section 13 for disposal advice.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe 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.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, dry area.

**7.3. Specific end use(s)**

No special precautions.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limit values**

Ingredients	OSHA PEL <sup>1</sup>		ACGIH TLV <sup>2</sup>		AUSTRALIA ES <sup>3</sup>	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Potassium hydroxide	–	–	–	(Ceiling) 2	–	(Ceiling) 2
Hexyl D-glucoside	–	–	–	–	–	–
Sodium carbonate	–	–	–	–	–	–
N-methyl-2-pyrrolidone*	–	–	–	–	25	103
					STEL:	STEL:
					75	309

\*Chesterton recommended limit: 100 ppm.

<sup>1</sup> United States Occupational Health & Safety Administration permissible exposure limits

<sup>2</sup> American Conference of Governmental Industrial Hygienists threshold limit values

<sup>3</sup> Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

**Biological limit values**

N-methyl-2-pyrrolidone:

Control parameter	Biological specimen	Sampling Time	Limit value	Basis	Notes
5-Hydroxy-N-methyl-2-pyrrolidone	Urine	End of shift	100 mg/l	ACGIH	–

**8.2. Exposure controls****8.2.1. Engineering measures**

Use only in well-ventilated areas. If exposure limits are exceeded, supplement with local mechanical exhaust.

**8.2.2. Individual protection measures**

**Respiratory protection:** Not normally needed. If exposure limits are exceeded, use an approved organic/acid/base vapor respirator (e.g., EN filter type A-P2).

**Protective gloves:** Waterproof gloves (e.g., rubber, latex, plastic)

**Eye and face protection:** Safety goggles.

**Other:** Impervious clothing as necessary to prevent skin contact.

**8.2.3. Environmental exposure controls**

Refer to sections 6 and 12.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	clear liquid	<b>Odour</b>	mild odor
<b>Colour</b>	red	<b>Odour threshold</b>	not determined
<b>Initial boiling point</b>	100°C (212°F)	<b>Vapour pressure @ 20°C</b>	not determined
<b>Melting point</b>	0°C (32°F)	<b>% Aromatics by weight</b>	0%
<b>% Volatile (by volume)</b>	89%	<b>pH</b>	13.1 – 13.7
<b>Flash point</b>	none	<b>Relative density</b>	1.06 kg/l
<b>Method</b>	PM Closed Cup	<b>Weight per volume</b>	8.9 lbs/gal
<b>Viscosity</b>	< 5 cps @ 25°C	<b>Coefficient (water/oil)</b>	> 1
<b>Autoignition temperature</b>	not applicable	<b>Vapour density (air=1)</b>	> 1
<b>Decomposition temperature</b>	not determined	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Upper/lower flammability or explosive limits</b>	not determined	<b>Solubility in water</b>	complete
<b>Flammability (solid, gas)</b>	not applicable	<b>Oxidising properties</b>	not applicable
<b>Explosive properties</b>	not applicable		

**9.2. Other information**

None

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Refer to sections 10.3 and 10.5.

**10.2. Chemical stability**

Stable

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under conditions of normal use.

**10.4. Conditions to avoid**

None

**10.5. Incompatible materials**

Aluminum, Zinc and Tin; alloys of Aluminum, Zinc and Tin and strong oxidizers like liquid Chlorine and concentrated Oxygen.

**10.6. Hazardous decomposition products**

Carbon Monoxide, Carbon Dioxide and other toxic fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

**Primary route of exposure under normal use:** Skin and eye contact.

**Acute toxicity -****Oral:**

Based on available data on components, the classification criteria are not met.

Substance	Test	Result
Sodium carbonate	LD50, rat	4090 mg/kg
Hexyl D-glucoside	LD50 rat, read-across	> 2000
Potassium hydroxide	LD50, rat	273 mg/kg
N-methyl-2-pyrrolidone	LD50, rat	3598 mg/kg

**Dermal:**

Substance	Test	Result
Sodium carbonate	LD50, rabbit	> 2000 mg/l
Hexyl D-glucoside	LD50, rabbit, read-across	> 2000 mg/l
N-methyl-2-pyrrolidone	LD50, rabbit	8000 mg/kg

**Inhalation:**

Substance	Test	Result
Sodium carbonate	LC50, rat, 2 hours	2.3 mg/l
N-methyl-2-pyrrolidone	LC50, rat, 4 hours	> 5.1 mg/l

**Skin corrosion/irritation:**

Direct contact can cause severe irritation; possibly burns.

Substance	Test	Result
Potassium hydroxide	Skin irritation, rabbit	Corrosive

**Serious eye damage/irritation:**

Risk of serious damage to eyes.

Substance	Test	Result
Potassium hydroxide	Eye irritation, rabbit	Corrosive

**Respiratory or skin sensitisation:**

Not expected to cause sensitization, based on available data.

Substance	Test	Result
Potassium hydroxide	Skin sensitization, guinea pig	No skin sensitization

**Germ cell mutagenicity:**

Not expected to be a germ cell mutagen.

**Carcinogenicity:**

This product contains no carcinogens as listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or Regulation (EC) No 1272/2008. WARNING: This product contains chemical(s) known to the State of California to cause reproductive toxicity.

**Reproductive toxicity:**

N-methyl-2-pyrrolidone has produced reproductive/teratogenic effects in animal studies.

**STOT – single exposure:**

Not expected to cause toxicity, based on available data on components.

**STOT – repeated exposure:**

Not expected to cause organ damage from prolonged or repeated exposure, based on available data on components.

**Aspiration hazard:**

Based on available data, the classification criteria are not met.

**Other information:**

None known

**SECTION 12: ECOLOGICAL INFORMATION**

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.

**12.1. Toxicity**

Many aquatic species are intolerant of pH levels in excess of 10.

**12.2. Persistence and degradability**

Hexyl D-glucoside, N-methyl-2-pyrrolidone: readily biodegradable. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) N° 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer. Potassium hydroxide, Sodium carbonate: inorganic substances.

**12.3. Bioaccumulative potential**

Hazardous ingredients: not expected to bioaccumulate.

**12.4. Mobility in soil**

Liquid. Soluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Hexyl D-glucoside, N-methyl-2-pyrrolidone: expected to be highly mobile in soil.

**12.5. Other adverse effects**

None known

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Incinerate or landfill absorbed material with a properly licensed facility. 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.

**SECTION 14: TRANSPORT INFORMATION****14.1. UN number**

<b>ADG/ADR/RID/ADN/IMDG/ICAO:</b>	UN1814
<b>TDG:</b>	UN1814
<b>US DOT:</b>	UN1814

**14.2. UN proper shipping name**

<b>ADG/ADR/RID/ADN/IMDG/ICAO:</b>	POTASSIUM HYDROXIDE SOLUTION
<b>TDG:</b>	POTASSIUM HYDROXIDE SOLUTION
<b>US DOT:</b>	POTASSIUM HYDROXIDE SOLUTION

**14.3. Transport hazard class(es)**

<b>ADG/ADR/RID/ADN/IMDG/ICAO:</b>	8
<b>TDG:</b>	8
<b>US DOT:</b>	8

**14.4. Packing group**

<b>ADG/ADR/RID/ADN/IMDG/ICAO:</b>	II
<b>TDG:</b>	II
<b>US DOT:</b>	II

**14.5. Environmental hazards**

NO ENVIRONMENTAL HAZARDS

**14.6. Special precautions for user**

NO SPECIAL PRECAUTIONS FOR USER

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

NOT APPLICABLE

**14.8. Other information**

**US DOT:** ERG NO. 154

May be shipped as Limited Quantities in packaging having a rated capacity gross weight of 66 lb. or less and in inner packages not over 1 Liter (49 CFR 173.154 (b,1))

**IMDG:** EmS. F-A, S-B "Separated from Acids"

**ADR:** Classification code C5, Tunnel restriction code (E)

**ADG HAZCHEM CODE:** 2R **HIN:** 80

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. National regulations****US EPA SARA TITLE III****312 Hazards:**

Skin corrosion  
Reproductive toxicity

**313 Chemicals:**

N-methyl-2-pyrrolidone 872-50-4 0.1-1%

**Other national regulations:** National implementation of the EC Directives referred to in section 15.1.1.

**SECTION 16: OTHER INFORMATION**

**Abbreviations and acronyms:** ADG: Australian Dangerous Goods Code  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE: Acute Toxicity Estimate  
BCF: Bioconcentration Factor  
cATpE: Converted Acute Toxicity point Estimate  
ES: Exposure Standard  
GHS: Globally Harmonized System  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Dangerous Goods  
LC50: Lethal Concentration to 50 % of a test population  
LD50: Lethal Dose to 50% of a test population  
LOEL: Lowest Observed Effect Level  
N/A: Not Applicable  
NA: Not Available  
NOEC: No Observed Effect Concentration  
NOEL: No Observed Effect Level  
OECD: Organization for Economic Co-operation and Development  
(Q)SAR: Quantitative Structure-Activity Relationship  
REL: Recommended Exposure Limit  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
STOT RE: Specific Target Organ Toxicity, Repeated Exposure  
STOT SE: Specific Target Organ Toxicity, Single Exposure  
TDG: Transportation of Dangerous Goods (Canada)  
TWA: Time Weighted Average  
US DOT: United States Department of Transportation  
WHMIS: Workplace Hazardous Materials Information System  
Other abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**Key literature references and sources for data:** Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)  
Chemical Classification and Information Database (CCID)  
European Chemicals Agency (ECHA) - Information on Chemicals  
Hazardous Chemical Information System (HCIS)  
National Institute of Technology and Evaluation (NITE)  
U.S. National Library of Medicine Toxicology Data Network (TOXNET)

**Procedure used to derive the classification for mixtures according to GHS:**

Classification	Classification procedure
Skin Corr. 1B, H314	Calculation method
Repr. 1B, H360D	Calculation method

**Relevant H-statements:** H290: May be corrosive to metals.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H360D: May damage the unborn child.

**Hazard pictogram names:** Corrosion, health hazard

**Further information:** None

**Date of last revision:** 17 June 2019

**Changes to the SDS in this revision:** Sections 2.1, 2.2, 3, 4.1, 4.2, 5.1, 5.2, 8.1, 11, 12.5, 14, 15, 16.

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 suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.