



## SAFETY DATA SHEET

in accordance with REACH (1907/2006/EC, as amended by 453/2010/EC)

**Revision date:** 9 November 2012      **Initial date of issue:** 10 July 2007      **SDS No.** 165-14

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

#### 1.1. Product identifier

360 Phosphate-Free Cleaner

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

Water-based cleaner. Nonflammable.

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

##### Supplier:

#### 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)

### SECTION 2: HAZARDS IDENTIFICATION

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

##### 2.1.1. Classification according to Directive 1999/45/EC

Irritant; Xi; R41

##### 2.1.2. Canadian WHMIS classification

D2B: Toxic materials causing other effects

##### 2.1.3. Australian classification

Hazardous according to criteria of Safe Work Australia.

##### 2.1.4. Additional information

For full text of R-phrases: see SECTIONS 2.2 and 16.

#### 2.2. Label elements

##### Labelling according to Directive 1999/45/EC

**Danger symbols:** Xi - Irritant

**R-phrases:** R41 Risk of serious damage to eyes.

**S-phrases:** S39 Wear eye/face protection.  
S23 Do not breathe spray.  
S51 Use only in well-ventilated areas.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Other information:** None

#### 2.3. Other hazards

Direct skin contact may cause slight skin irritation (Primary Skin Irritation Index = 1.833). As with any product of this type, frequent or prolonged contact will affect people differently, depending on skin sensitivity. The hazard is reduced as dilution is increased.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

Hazardous Ingredients <sup>1</sup>	% Wt.	CAS No./ EC No.	REACH Reg. No.	Classification (acc. to 1272/2008/EC)	Classification (67/548/EEC)
Sodium Hydroxide	1-5	1310-73-2 215-185-5	NA	Skin Corr. 1A, H314	C; R35
Ethylenediaminetetraacetic Acid, Tetrasodium Salt	1-5	64-02-8 200- 573-9	NA	Acute Tox. 4, H302 Eye Dam. 1, H318	Xn; R22-41
Disodium Metasilicate	1-5	6834-92-0 229-912-9	NA	Skin Corr. 1B, H314 STOT SE 3, H335	C; R34-37

Indications of danger acc. to 67/548/EEC: C: Corrosive; Xn: Harmful  
For full text of H-statements and R-phrases: 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), California Proposition 65  
\* 1272/2008/EC, 67/548/EEC, 99/45/EC, REACH  
\* Controlled Products Regulations  
\* Safe Work Australia [NOHSC: 1008 (2004)]

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures**

**Inhalation:** Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.

**Skin contact:** Wash skin with soap and water. 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, dilute stomach contents with large quantities of milk or water. Contact physician immediately.

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

Sodium Hydroxide is a strong irritant to eyes, skin and mucous membranes; in the presence of moisture it is corrosive. The hazard is reduced as it is present in Phosphate Free Cleaner in a 1-5% concentration and can be further reduced by dilution. Direct skin contact may cause slight skin irritation (Primary Skin Irritation Index = 1.833).

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

Treat symptoms.

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

Nonflammable.

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

None

**5.3. Advice for firefighters**

None

**Flammability Classification:** –

**HAZCHEM Emergency Action Code:** not applicable

**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**

Keep out of sewers, streams and waterways.

**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**

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

Hazardous Ingredients	OSHA PEL		ACGIH TLV		UK WEL		AUSTRALIA ES	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Sodium Hydroxide	–	2	–	2 (Ceiling)	STEL	2	–	2 (Ceiling)
Ethylenediaminetetraacetic Acid, Tetrasodium Salt	–	–	–	–	–	–	–	–
Disodium Metasilicate	–	–	–	–	–	–	–	–

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

Use only in well-ventilated areas.

**8.2.2. Individual protection measures**

**Respiratory protection:** Not normally needed. If exposure limit is exceeded, use approved mist/fume respirator.

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

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

**Other:** None

**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>	low viscosity liquid	<b>Odour</b>	mild
<b>Colour</b>	blue	<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>	not determined	<b>% Aromatics by weight</b>	0%
<b>% Volatile (by volume)</b>	92%	<b>pH</b>	13.1
<b>Flash point</b>	None	<b>Relative density</b>	1,13 kg/l
<b>Method</b>	None	<b>Weight per volume</b>	9.4 lbs/gal.
<b>Viscosity</b>	not known	<b>Coefficient (water/oil)</b>	> 1
<b>Autoignition temperature</b>	not determined	<b>Vapour density (air=1)</b>	> 1
<b>Decomposition temperature</b>	no data available	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Upper/lower flammability or explosive limits</b>	not applicable	<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 strong acids.

**10.6. Hazardous decomposition products**

None

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

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

**Acute effects:** Sodium Hydroxide is a strong irritant to eyes, skin and mucous membranes; in the presence of moisture it is corrosive. The hazard is reduced as it is present in Phosphate Free Cleaner in a 1-5% concentration and can be further reduced by dilution. Direct skin contact may cause slight skin irritation (Primary Skin Irritation Index = 1.833).

Substance	Test	Result
Sodium Hydroxide	LD50 dermal, rabbit	> 2000 mg/kg
Sodium Hydroxide	LD50 oral, rat	300-500 mg/kg
Ethylenediaminetetraacetic Acid, Tetrasodium Salt	LD50 oral, rat	> 2000 mg/kg
Disodium Metasilicate	LD50 oral, rat	1153 mg/kg

**Chronic effects:** None known

**Carcinogenicity:** 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), the Occupational Safety and Health Administration (OSHA) or Regulation (EC) No 1272/2008.

**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**

Low toxicity to fish.

**12.2. Persistence and degradability**

OECD 301E (Dissolved Organic Carbon - DOC): 92% Biodegradability. 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.

**12.3. Bioaccumulative potential**

not determined

**12.4. Mobility in soil**

Liquid. Soluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9).

**12.5. Results of PBT and vPvB assessment**

Not available

**12.6. 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 after neutralization. This product is classified as a hazardous waste according to 91/689/EEC. Check local, state and national/federal regulations and comply with the most stringent requirement.

European List of Wastes code: 20 01 29

**SECTION 14: TRANSPORT INFORMATION**

**14.1. UN number**

ADR/RID/ADN/IMDG/ICAO: NOT APPLICABLE  
 TDG: NOT APPLICABLE  
 US DOT: NOT APPLICABLE

**14.2. UN proper shipping name**

ADR/RID/ADN/IMDG/ICAO: NON-HAZARDOUS, NON REGULATED  
 TDG: NON-HAZARDOUS, NON REGULATED  
 US DOT: NON-HAZARDOUS, NON REGULATED

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

ADR/RID/ADN/IMDG/ICAO: NOT APPLICABLE  
 TDG: NOT APPLICABLE  
 US DOT: NOT APPLICABLE

**14.4. Packing group**

ADR/RID/ADN/IMDG/ICAO: NOT APPLICABLE  
 TDG: NOT APPLICABLE  
 US DOT: NOT APPLICABLE

**14.5. Environmental hazards**

NOT APPLICABLE

**14.6. Special precautions for user**

NOT APPLICABLE

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

NOT APPLICABLE

**14.8. Other information**

NOT APPLICABLE

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1. EU regulations**

Authorisations under Title VII: Not applicable

Restrictions under Title VIII: None

Other EU regulations: Regulation (EC) No 648/2004 on detergents

**15.1.2. National regulations**

**US EPA SARA TITLE III**

312 Hazards: Immediate  
 313 Chemicals: None

**Hazardous Materials Identification System (HMIS)**

4 = Severe Hazard  
 3 = Serious Hazard  
 2 = Moderate Hazard  
 1 = Slight Hazard  
 0 = Minimal Hazard  
 \* = See Section 8

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>
<b>Personal Protection</b>	<b>*</b>

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**Class I Chemicals:**

None

**Class II Chemicals:**

None

**Other national regulations:** None

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**SECTION 16: OTHER INFORMATION**

**Abbreviations and acronyms:** ACGIH: American Conference of Governmental Industrial Hygienists  
 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  
 CLP: Classification Labelling Packaging Regulation (1272/2008/EC)  
 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  
 NOEL: No Observed Effect Level  
 OSHA: Occupational Health & Safety Administration  
 PBT: Persistent, Bioaccumulative and Toxic substance  
 PEL: Permissible Exposure Limit  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)  
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SDS: Safety Data Sheet  
 STEL: Short Term Exposure Limit  
 STOT: Specific Target Organ Toxicity  
 TDG: Transportation of Dangerous Goods (Canada)  
 TLV: Threshold Limit Value  
 US DOT: United States Department of Transportation  
 vPvB: very Persistent and very Bioaccumulative substance  
 WEL: Workplace Exposure Limit  
 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 de la santé et de la sécurité du travail (CSST)  
 European chemical Substances Information System (ESIS)  
 European Chemicals Agency (ECHA) - Information on Chemicals  
 Hazardous Substances Data Bank (HSDB)  
 Hazardous Substances Information System (HSIS)  
 Swedish Chemicals Agency (KEMI)

**Relevant H-statements:** H302: Harmful if swallowed.  
 H314: Causes severe skin burns and eye damage.  
 H318: Causes serious eye damage.  
 H335: May cause respiratory irritation.

**Relevant R-phrases:** R22: Harmful if swallowed.  
 R34: Causes burns.  
 R35: Causes severe burns.  
 R37: Irritating to respiratory system.  
 R41: Risk of serious damage to eyes.

**Changes to the SDS in this revision:** Sections 1-16, updated to new format.

**Further information:** None

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.