

## SAFETY DATA SHEET

in accordance with REACH (1907/2006/EC, as amended by 2015/830/EU) 29 CFR 1910.1200 and WHMIS 2015

**Revision date:** 22 April 2019      **Initial date of issue:** 10 July 2007      **SDS No.** 165-17

### 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)  
SDS requests: [www.chesterton.com](http://www.chesterton.com)  
E-mail (SDS questions): [ProductMSDSs@chesterton.com](mailto:ProductMSDSs@chesterton.com)  
E-mail: [customer.service@chesterton.com](mailto:customer.service@chesterton.com)

##### Supplier:

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive,  
Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055  
EU: Chesterton International GmbH, Am Lenzenfleck 23,  
D85737 Ismaning, Germany – Tel. +49-89-996-5460

#### 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 Regulation (EC) No 1272/2008 [CLP] / GHS

Serious eye damage, Category 1, H318

##### 2.1.2. Classification according to 29 CFR 1910.1200 / WHMIS 2015 / GHS

Serious eye damage, Category 1, H318  
Specific target organ toxicity – repeated exposure, Category 2, H373 (respiratory system, inhalation)

##### 2.1.3. Australian statement of hazardous nature

Hazardous according to criteria of Safe Work Australia.

##### 2.1.4. Additional information

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

#### 2.2. Label elements

##### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP] / GHS

**Hazard pictograms:**



**Signal word:** Danger

**Hazard statements:** H318 Causes serious eye damage.

**Precautionary statements:** P280 Wear eye/face protection.  
 P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor.

**Supplemental information:** None

### 2.2.2. Labelling according to 29 CFR 1910.1200 / WHMIS 2015 / GHS

**Hazard pictograms:**



**Signal word:** Danger

**Hazard statements:** H318 Causes serious eye damage.  
 H373 May cause damage to the respiratory tract through prolonged or repeated exposure by inhalation.

**Precautionary statements:** P260 Do not breathe mist/spray.  
 P280 Wear eye/face protection.  
 P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor.  
 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./ EC No.	REACH Reg. No.	CLP/GHS Classification
Disodium Metasilicate	1-5	6834-92-0 229-912-9	NA	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Sodium hydroxide	1-5	1310-73-2 215-185-5	NA	Skin Corr. 1A, H314 Eye Dam. 1, H318 Met. Corr. 1, H290
Ethylenediaminetetraacetic acid, tetrasodium salt	1-5	64-02-8 200-573-9	NA	Acute Tox. 4, H302, H332 Eye Dam. 1, H318 STOT RE 2, H373 (respiratory system, inhalation)

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)  
 • 1272/2008/EC, GHS, REACH  
 • WHMIS 2015  
 • Safe Work Australia

## 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.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. Do not breathe mist/spray. Wear eye protection. See section 8.2.2 for recommendations on personal protective equipment.

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

May cause burns to eyes. 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: FIREFIGHTING MEASURES****5.1. Extinguishing media**

**Suitable extinguishing media:** Nonflammable. Use extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media:** None known

**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 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****Occupational exposure limit values**

Ingredients	OSHA PEL <sup>1</sup>		ACGIH TLV <sup>2</sup>		UK WEL <sup>3</sup>		AUSTRALIA ES <sup>4</sup>	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Disodium Metasilicate	–	–	–	–	–	–	–	–
Sodium hydroxide	–	2	–	2 (Ceiling)	–	2 (STEL)	–	2 (Ceiling)
Ethylenediaminetetraacetic acid, tetrasodium salt	–	–	–	–	–	–	–	–

<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> EH40 Workplace exposure limits, Health & Safety Executive

<sup>4</sup> Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

#### Biological limit values

Not available

#### Derived No Effect Level (DNEL) according to Regulation (EC) No 1907/2006:

##### Workers

Substance	Route of exposure	Potential health effects	DNEL
Sodium hydroxide	Inhalation	Chronic effects, local	1 mg/m <sup>3</sup>
Ethylenediaminetetraacetic acid, tetrasodium salt	Inhalation	Chronic effects, local	1.5 mg/m <sup>3</sup>
Disodium Metasilicate	Inhalation	Chronic effects, systemic	6.22 mg/m <sup>3</sup>

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006:

Not available

## 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 (e.g., EN filter type P2).

**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 determined
<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 toxicity -**

**Oral:** ATE-mix: 11,452 mg/kg

Substance	Test	Result
Disodium Metasilicate	LD50 oral, rat	1152-1349 mg/kg
Ethylenediaminetetraacetic acid, tetrasodium salt	LD50 oral, rat	1658 mg/kg

**Dermal:** ATE-mix: 49,700 mg/kg

**Inhalation:** ATE-mix: 93.75 mg/l (mist)

Substance	Test	Result
Ethylenediaminetetraacetic acid, tetrasodium salt	cATpE	1.5 mg/l (mist)

**Skin corrosion/irritation:** Direct skin contact may cause slight skin irritation (Primary Skin Irritation Index = 1.833).

**Serious eye damage/irritation:** May cause burns to eyes.

Substance	Test	Result
Sodium hydroxide	Eye irritation, rabbit	Corrosive
Disodium Metasilicate	Eye irritation, rabbit	Corrosive
Ethylenediaminetetraacetic acid, tetrasodium salt	Eye irritation, rabbit	Corrosive

**Respiratory or skin sensitisation:** Not expected to cause sensitization.

Substance	Test	Result
Ethylenediaminetetraacetic acid, tetrasodium salt	Skin sensitization, guinea pig (OECD 406)	Not sensitizing

**Germ cell mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**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 the European Chemicals Agency (ECHA).

**Reproductive toxicity:** Not expected to be a reproductive toxicant.

**STOT – single exposure:** Not expected to cause toxicity.

**STOT – repeated exposure:** Ethylenediaminetetraacetic acid, tetrasodium salt: May cause damage to the respiratory tract through prolonged or repeated exposure by inhalation.

**Aspiration hazard:** Not classified as an aspiration toxicant.

**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**

Sodium hydroxide: not expected to bioaccumulate. Ethylenediaminetetraacetic acid, tetrasodium salt: bioconcentration factor approx. 1.8 (28 days), 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).

**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. Check local, state and national/federal regulations and comply with the most stringent requirement.

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

**ADG/ADR/RID/ADN/IMDG/ICAO:** NOT APPLICABLE

**TDG:** NOT APPLICABLE

**US DOT:** NOT APPLICABLE

**14.2. UN proper shipping name**

**ADG/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)**

**ADG/ADR/RID/ADN/IMDG/ICAO:** NOT APPLICABLE

**TDG:** NOT APPLICABLE

**US DOT:** NOT APPLICABLE

**14.4. Packing group**

**ADG/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:

Serious eye damage

#### 313 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:** 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  
 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  
 NOEC: No Observed Effect Concentration  
 NOEL: No Observed Effect Level  
 OECD: Organization for Economic Co-operation and Development  
 PBT: Persistent, Bioaccumulative and Toxic substance  
 (Q)SAR: Quantitative Structure-Activity Relationship  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)  
 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  
 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 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)  
 Swedish Chemicals Agency (KEMI)  
 U.S. National Library of Medicine Toxicology Data Network (TOXNET)

**Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP]:**

Classification	Classification procedure
Eye Dam. 1, H318	Calculation method

**Relevant H-statements:** H290: May be corrosive to metals.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H373: May cause damage to organs through prolonged or repeated exposure.

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

**Further information:** None

**Date of last revision:** 22 April 2019

**Changes to the SDS in this revision:** Sections 1.3,1.4, 2.1, 2.2, 3, 4.1, 4.2, 5.1, 8.1, 11, 12.2, 12.3, 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.