



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 ¹	% 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.

¹Classified 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 ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
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**

Physical state	low viscosity liquid	Odour	mild
Colour	blue	Odour threshold	not determined
Initial boiling point	100°C (212°F)	Vapour pressure @ 20°C	not determined
Melting point	not determined	% Aromatics by weight	0%
% Volatile (by volume)	92%	pH	13.1
Flash point	None	Relative density	1,13 kg/l
Method	None	Weight per volume	9.4 lbs/gal.
Viscosity	not known	Coefficient (water/oil)	> 1
Autoignition temperature	not determined	Vapour density (air=1)	> 1
Decomposition temperature	no data available	Rate of evaporation (ether=1)	< 1
Upper/lower flammability or explosive limits	not applicable	Solubility in water	complete
Flammability (solid, gas)	not applicable	Oxidising properties	not applicable
Explosive properties	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: 313 Chemicals:
 Immediate None

Hazardous Materials Identification System (HMIS)

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

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
Personal Protection	*

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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:	<p>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.</p>
Key literature references and sources for data:	<p>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)</p>
Relevant H-statements:	<p>H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H335: May cause respiratory irritation.</p>
Relevant R-phrases:	<p>R22: Harmful if swallowed. R34: Causes burns. R35: Causes severe burns. R37: Irritating to respiratory system. R41: Risk of serious damage to eyes.</p>
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.