

SAFETY DATA SHEET

in accordance with 1907/2006/EC (REACH, as amended by 453/2010/EC) and 29 CFR 1910.1200

Revision date: 20 May 2015

Initial date of issue: 6 July 2007

SDS No. 266-11

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

1.1. Product identifier

KPC 820

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

Water-based metal 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
E-mail (SDS questions): ProductMSDSs@chesterton.com
E-mail: customer.service@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 Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / GHS

Eye Irrit. 2, H319
Skin Irrit. 2, H315

2.1.2. Classification according to Directives 1999/45/EC and 1975/324/EEC

This product does not meet the criteria for classification in any danger category according to Directive 1999/45/EC on classification, packaging and labelling of dangerous preparations.

2.1.3. Classification according to WHMIS 1988

not determined

2.1.4. Australian statement of hazardous nature

Not classified as hazardous according to criteria of Safe Work Australia.

2.1.5. Additional information

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

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / GHS

Hazard pictograms:



Signal word:

Warning

Hazard statements:

H319 Causes serious eye irritation.
H315 Causes skin irritation.

Precautionary statements: P280 Wear protective gloves and 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.
 P337/313 If eye irritation persists: Get medical advice/attention.
 P302/352 IF ON SKIN: Wash with plenty of soap and water.
 P332/313 If skin irritation occurs: Get medical advice/attention.
 P362/364 Take off contaminated clothing and wash it before reuse.

Supplemental information: None known

2.3. Other hazards

Direct contact with supplied product may cause eye and skin irritation. As with any product of this type, frequent or prolonged contact will affect people differently, depending on skin sensitivity. If ingested in large quantities, this product could cause internal damage to the body.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Hazardous Ingredients ¹	% Wt.	CAS No./ EC No.	REACH Reg. No.	Classification (CLP/GHS)	Classification (67/548/EEC)
D-Glucopyranose, oligomers, decyl octyl glycosides	1-2	68515-73-1 500-220-1	01-211948 8530-36	Eye Dam. 1, H318	Xi; R41
Ethanolamine	1-2	141-43-5 205-483-3	NA	Acute Tox. 4, H332/H312/H302 Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Chronic 3, H412	Xn; R20/21/22 C; R34
Sodium octyl sulfate	1-2	142-31-4 205-535-5	NA	Eye Irrit. 2, H319 Skin Irrit. 2, H315	Xi; R36/38

Other ingredients¹:

Polyethylene glycol	1-5	25322-68-3 500-038-2	NA	Not classified*	Not classified
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Indications of danger acc. to 67/548/EEC: C: Corrosive; Xn: Harmful; Xi: Irritant

For full text of H-statements and R-phrases: see SECTION 16.

*Substance with a workplace exposure limit.

¹ 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
 * WHMIS 2015
 * 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 if irritation persists.

Eye contact: Flush eyes for at least 15 minutes with large amounts of water. Consult physician.

Ingestion: If conscious, dilute stomach contents with two glasses of water and induce vomiting. Contact physician immediately.

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

Direct contact with supplied product may cause eye and skin irritation. Mists can cause eye and respiratory tract irritation. Prolonged or repeated skin contact may cause dermatitis.

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

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**

Utilize exposure controls and personal protection as specified in Section 8. Alkaline materials sometimes exhibit delayed effects. Wash immediately after any contact. Launder contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Do not freeze.

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 ¹		ACGIH TLV ²		UK WEL ³		AUSTRALIA ES ⁴	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
D-Glucopyranose, oligomers, decyl octyl glycosides	–	–	–	–	–	–	–	–
Ethanolamine	3	6	3	–	1	2.5	3	7.5
			STEL:		STEL:	STEL:	STEL:	
			6		3	7.6	6	15
Polyethylene glycol*	–	–	–	–	–	–	–	–
Sodium octyl sulfate	–	–	–	–	–	–	–	–

*American Industrial Hygiene Association (AIHA) recommended limit: 10 mg/m³, 8 hr TWA, aerosol.¹ United States Occupational Health & Safety Administration permissible exposure limits.² American Conference of Governmental Industrial Hygienists threshold limit values.³ EH40 Workplace exposure limits, Health & Safety Executive⁴ Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].**8.2. Exposure controls****8.2.1. Engineering measures**

No special requirements. If exposure limits are exceeded, provide adequate ventilation.

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 glasses**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	liquid	Odour	citrus odor
Colour	green	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)	84%	pH	10.0
Flash point	None	Relative density	1.06 kg/l
Method	PM Closed Cup	Weight per volume	8.82 lbs/gal
Viscosity	< 5 cps @25°C	Coefficient (water/oil)	> 1
Autoignition temperature	not applicable	Vapour density (air=1)	> 1
Decomposition temperature	not determined	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 determined
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

Strong acids 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: Inhalation, skin and eye contact.

Acute effects: Direct contact with supplied product may cause eye and skin irritation. Mists can cause eye and respiratory tract irritation. ATE-mix oral, 41611 mg/kg. ATE-mix dermal, 68322 mg/kg. ATE-mix inhalation, 738.25 mg/l (vapor).

Substance	Test	Result
Ethanolamine	LD50 oral, rat	1088 mg/kg
Ethanolamine	LD50 dermal, rabbit	1018 mg/kg
Ethanolamine	LC50 inhalation, mice	> 2.4 mg/l/4 h
Polyethylene glycol	LD50 oral, rat	32500 mg/kg
Polyethylene glycol	LD50 dermal, rabbit	> 20000 mg/kg

Chronic effects: Ethanolamine: Animal studies have reported fetotoxic, liver and kidney effects. Prolonged or repeated skin contact may cause dermatitis. Ethanolamine, Polyethylene glycol: May be absorbed through the skin. Prolonged contact with skin is unlikely to result in absorption of harmful amounts.

Carcinogenicity:	As per 29 CFR 1910.1200 (Hazard Communication), 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.
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

Not expected to be acutely toxic.

12.2. Persistence and degradability

D-Glucopyranose, oligomers, decyl octyl glycosides: readily biodegradable. Polyethylene glycol: expected to be readily biodegradable. In soil and water, Ethanolamine is expected to biodegrade fairly rapidly following acclimation (half-life on the order of days to weeks). 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

Ethanolamine: low potential for bioaccumulation (BCF < 100). Polyethylene glycol: 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). Ethanolamine is expected to be extremely mobile in soil and have negligible adsorption to suspended solids and sediments in water.

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 bury absorbed material. Material may be suitable for water treatment. Check local, state and national/federal regulations and comply with the most stringent requirement. This product is not classified as a hazardous waste according to 2008/98/EC.

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
Delayed**Hazardous Materials Identification System (HMIS)**4 = Severe Hazard
3 = Serious Hazard
2 = Moderate Hazard
1 = Slight Hazard
0 = Minimal Hazard
* = See Section 8

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	1
Personal Protection	*

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:** 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

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

NOAEL: No Observed Adverse Effect Level

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)

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)

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.**Key literature references and sources for data:** Commission de la santé et de la sécurité du travail (CSST)
Chemical Classification and Information Database (CCID)
European Chemicals Agency (ECHA) - Information on Chemicals
Hazardous Substances Information System (HSIS)
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:

Classification	Classification procedure
Eye Irrit. 2, H319	Calculation method
Skin Irrit. 2, H315	Calculation method

Relevant H-statements: H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H412: Harmful to aquatic life with long lasting effects.

Relevant R-phrases: R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R34: Causes burns.
R41: Risk of serious damage to eyes.
R38: Irritating to skin.

Hazard pictogram names: Exclamation mark

Changes to the SDS in this revision: Sections 2.1, 2.2, 2.3, 3, 8, 8.2.2, 9.1, 11, 16,

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.