

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: 23 August 2018

Initial date of issue: 6 July 2007

SDS No. 266-14

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:

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] / 29 CFR 1910.1200 / WHMIS 2015 / GHS

Skin irritation, Category 2, H315
Serious eye damage, Category 1, H318

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

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

Hazard pictograms:



Signal word:

Danger

Hazard statements:

H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements: P264 Wash face, hands and any exposed skin thoroughly after handling.
 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

2.3. Other hazards

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Hazardous Ingredients ¹	% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification
Ethoxylated alcohol	1-5	34398-01-1 500-084-3	NA	Acute Tox. 4, H302 Eye Dam. 1, H318
D-Glucopyranose, oligomers, decyl octyl glycosides	1-3	68515-73-1 500-220-1	01-211948 8530-36	Eye Dam. 1, H318
Ethanolamine	1-2	141-43-5 205-483-3	NA	Flam. Liq. 4, H227** Acute Tox. 4, H332/H312/H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 (≥ 5%) Aquatic Chronic 3, H412
Sodium octyl sulfate	0.9-2	142-31-4 205-535-5	NA	Eye Dam. 1, H318 Skin Irrit. 2, H315
Other ingredients ¹ : Polyethylene glycol	1-5	25322-68-3 500-038-2	NA	Not classified*

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

*Substance with a workplace exposure limit. **Non-CLP classification.

¹ 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 if irritation persists.

Eye contact: Flush eyes for at least 30 minutes with large amounts of water. Contact physician immediately.

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

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. Avoid contact with the product while providing aid to the victim. See section 8 for recommendations on personal protective equipment.

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

Causes serious eye damage. Causes skin irritation.

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.

Unsuitable extinguishing media: None

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
Ethoxylated alcohol	–	–	–	–	–	–	–	–
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
Sodium octyl sulfate	–	–	–	–	–	–	–	–
Polyethylene glycol**	–	–	–	–	–	–	–	–

*European Union Occupational Exposure Limit Value: 1 ppm, 2.5 mg/m³, 8-hr TWA; 3 ppm, 7.6 mg/m³, STEL.

**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 Executive

⁴ Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003]

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

Substance	Route of exposure	Potential health effects	DNEL
D-Glucopyranose, oligomers, decyl octyl glycosides	Inhalation	Chronic effects, systemic	420 mg/m ³
	Dermal	Chronic effects, systemic	595,000 mg/kg

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

Substance	Environmental protection target	PNEC
D-Glucopyranose, oligomers, decyl octyl glycosides	Fresh water	0.176 mg/l
	Freshwater sediments	1,516 mg/kg
	Marine water	0.0176 mg/l
	Marine sediments	0.152 mg/kg
	Water, intermittent release	0.27 mg/l
	Food chain	111.11 mg/kg
	Microorganisms in sewage treatment	560 mg/l
	Soil (agricultural)	0.654 mg/kg

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 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	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

Elevated temperatures.

10.5. Incompatible materials

Strong acids/bases and strong oxidizers like liquid Chlorine and concentrated Oxygen.

10.6. Hazardous decomposition products

Carbon Monoxide, Carbon Dioxide, oxides of Sulfur 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 toxicity -

Oral: ATE-mix = 24,807 mg/kg.

Substance	Test	Result
Ethoxylated alcohol	LD50, rat	> 1403 mg/kg, estimated
Ethanolamine	LD50, rat	1089 mg/kg
Sodium octyl sulfate	LD50, rat	3200 mg/kg
Polyethylene glycol	LD50, rat	32,500 mg/kg

Dermal: ATE-mix = 68,322 mg/kg.

Substance	Test	Result
Ethanolamine	LD50, rabbit	1018-2504 mg/kg
Polyethylene glycol	LD50, rabbit	> 20,000 mg/kg

Inhalation: ATE-mix > 99 mg/l (vapor).

Substance	Test	Result
Ethanolamine	LC50, rat, 4 hours	> 1.48 mg/l (vapor) no mortality

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation:

Substance	Test	Result
Ethanolamine	Skin sensitization, guinea pig	Not sensitizing
Polyethylene glycol	Skin sensitization, human	Not sensitizing

Germ cell mutagenicity: Ethanolamine, Polyethylene glycol: based on available data, the classification criteria are not met. D-Glucopyranose, oligomers, decyl octyl glycosides: In vitro test, similar material: negative.

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.

Reproductive toxicity: Ethanolamine, Polyethylene glycol: in animal studies, did not interfere with reproduction.

STOT – single exposure: Not expected to cause toxicity.

STOT – repeated exposure: Ethanolamine: animal studies have reported liver and kidney effects.

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. Not expected to demonstrate chronic toxicity to aquatic organisms.

12.2. Persistence and degradability

D-Glucopyranose, oligomers, decyl octyl glycosides, Ethoxylated alcohol: 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

D-Glucopyranose, oligomers, decyl octyl glycosides: bioconcentration in aquatic organisms is not expected to be significant. 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.

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:

Skin Irrit. 2
Eye Irrit. 2

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: 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.

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] / GHS:

Classification	Classification procedure
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method

Relevant H-statements: H227: Combustible liquid.
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.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H412: Harmful to aquatic life with long lasting effects.

Hazard pictogram names: Corrosion

Changes to the SDS in this revision: Sections 8.1, 15.1.2, 16.

Date of last revision: 23 August 2018

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.