

## SAFETY DATA SHEET

in accordance with 2020/878/EU (REACH, Annex II) 29 CFR 1910.1200, WHMIS 2015 and Safe Work Australia

**Revision date:** 9 December 2022

**Date of previous issue:** April 4, 2022

**SDS No.** 223B-17

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

#### 1.1. Product identifier

388 Synthetic Tapping Fluid (Bulk)

**Unique Formula Identifier (UFI):** Not required.

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

**Relevant identified uses:** A high-performance, synthetic metal working fluid. Synthetic Tapping fluid provides the industrial performance of conventional petroleum and solvent based fluids while eliminating the hazards normally associated with these traditional products. Effective for all hand and automatic tapping operations and is used for a variety of demanding metal cutting operations over a broad range of metals, including aluminum. Nonflammable.

**Uses advised against:** No data available

**Reason why uses advised against:** Not applicable

#### 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): [ProductSDSs@chesterton.com](mailto:ProductSDSs@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] / 29 CFR 1910.1200 / WHMIS 2015 / GHS

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, 29 CFR 1910.1200, WHMIS 2015, Safe Work Australia and GHS. However, a safety data sheet is being supplied for it on request as it contains at least one substance posing human health or environmental hazards.

##### 2.1.2. Australian statement of hazardous nature

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

##### 2.1.3. Additional information

None

**2.2. Label elements**

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

**Hazard pictograms:** None

**Signal word:** None

**Hazard statements:** None

**Precautionary statements:** None

**Supplemental information:** EUH210 Safety data sheet available on request.

**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	SCL, M-factor, ATE
Oxirane, methyl-, polymer with oxirane, monobutyl ether, phosphate	1-5	71662-44-7 Polymer	NA	Aquatic Chronic 3, H412	ATE (oral): > 5,000 mg/kg ATE (dermal): > 2,000 mg/kg
Oleic acid, ethoxylated	1-5	9004-96-0 500-015-7	NA	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 (non-CLP)	ATE (oral): > 25,000 mg/kg
Ethylene oxide-Propylene oxide copolymer monobutyl ether	0.1-<1	9038-95-3 Polymer	NA	Acute Tox. 2, H330 STOT RE 1, H372	ATE (oral): 45,000 mg/kg ATE (dermal): > 20,000 mg/kg ATE (inhalation, mist): 0.106 mg/l

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 person to fresh air and keep comfortable for breathing. Contact physician immediately.

**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. Contact physician if irritation persists.

**Ingestion:** Do not induce vomiting. If conscious, drink milk, egg whites, gelatin. Contact physician immediately.

**Protection of first-aiders:** No special precautions.

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

Direct eye contact will cause minimal eye irritation. This product has the potential for slight skin irritation, rarely irritating to people.

**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:** Not applicable

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

**Hazardous combustion products:** Not applicable

**Other hazards:** None known

**5.3. Advice for firefighters**

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

**Australian HAZCHEM Emergency Action Code:** Not applicable

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Surfaces can be slippery. Evacuate area. Provide adequate ventilation. 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. Clean with an industrial detergent followed by complete rinsing with water.

**6.4. Reference to other sections**

Refer to section 13 for disposal advice.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Avoid breathing mist. Do not contaminate with sodium nitrite or other nitrosating agents, which could cause the formation of cancer-causing nitrosamine. Utilize exposure controls and personal protection as specified in Section 8.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, dry area. Do not store near food or feed.

**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>
Oxirane, methyl-, polymer with oxirane, monobutyl ether, phosphate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oleic acid, ethoxylated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylene oxide-Propylene oxide copolymer monobutyl ether	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

<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**

Not available

**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. In case of insufficient ventilation, use an approved amine cartridge respirator (e.g., EN filter type A-P).

**Protective gloves:** Barrier Cream or chemical resistant gloves (e.g., rubber, PVC) as appropriate.

**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**

<b>Physical state</b>	low viscosity liquid	<b>pH</b>	8.2
<b>Colour</b>	amber	<b>Kinematic viscosity</b>	4.9 cSt @ 25°C
<b>Odour</b>	mild odor	<b>Solubility in water</b>	complete
<b>Odour threshold</b>	not determined	<b>Partition coefficient</b>	no data available
		<b>n-octanol/water (log value)</b>	
<b>Boiling point or range</b>	100°C (212°F)	<b>Vapour pressure @ 20°C</b>	not determined
<b>Melting point/freezing point</b>	0°C (32°F)	<b>Density and/or relative density</b>	1.02 kg/l
<b>% Volatile (by volume)</b>	85%	<b>Weight per volume</b>	8.5 lbs/gal.
<b>Flammability</b>	not applicable	<b>Vapour density (air=1)</b>	> 1
<b>Lower/upper flammability or explosion limits</b>	not applicable	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Flash point</b>	none	<b>% Aromatics by weight</b>	not applicable
<b>Method</b>	PM Closed Cup	<b>Particle characteristics</b>	not applicable
<b>Autoignition temperature</b>	not applicable	<b>Explosive properties</b>	not applicable
<b>Decomposition temperature</b>	not determined	<b>Oxidising properties</b>	not determined

**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 reducers, alkali and strong oxidizers like liquid Chlorine and concentrated Oxygen.

**10.6. Hazardous decomposition products**

Oxides of Carbon and Nitrogen and other toxic fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 / GHS**

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

**Acute toxicity -**

**Oral:** Based on available data on components, the classification criteria are not met.

Substance	Test	Result
Oxirane, methyl-, polymer with oxirane, monobutyl ether, phosphate	LD50, rat	> 5,000 mg/kg (read-across)
Oleic acid, ethoxylated	LD50, mouse	> 25,000 mg/kg (1949)
Ethylene oxide-Propylene oxide copolymer monobutyl ether	LD50, rat	45,000 mg/kg

**Dermal:** Based on available data on components, the classification criteria are not met.

Substance	Test	Result
Oxirane, methyl-, polymer with oxirane, monobutyl ether, phosphate	LD50, rabbit	> 2,000 mg/kg (read-across)
Ethylene oxide-Propylene oxide copolymer monobutyl ether	LD50, rabbit	> 21,140 mg/kg

**Inhalation:** Based on available data on components, the classification criteria are not met.

ATE-mix = 10.82 mg/l (mist).

Substance	Test	Result
Ethylene oxide-Propylene oxide copolymer monobutyl ether	LC50 inhalation, rat, 4 h	0.106 - 0.26 mg/l (mist)

**Skin corrosion/irritation:** This product has the potential for slight skin irritation, rarely irritating to people.

**Serious eye damage/irritation:** Direct eye contact will cause minimal eye irritation.

**Respiratory or skin sensitisation:** Ethylene oxide-Propylene oxide copolymer monobutyl ether: a similar material did not cause allergic skin reactions when tested in humans.

**Germ cell mutagenicity:** No information available

**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:** No information available

**STOT – single exposure:** Ethylene oxide-Propylene oxide copolymer monobutyl ether: not expected to cause organ damage from a single exposure, based on available data.

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

**Aspiration hazard:** Based on available data, the classification criteria are not met.

**11.2. Information on other hazards**

None

**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 harmful to aquatic organisms. Long term adverse effects to aquatic organisms are not expected.

**12.2. Persistence and degradability**

Oxirane, methyl-, polymer with oxirane, monobutyl ether, phosphate: Dissolved organic carbon (DOC) 22.5% (28 days). Ethylene oxide-Propylene oxide copolymer monobutyl ether, biodegradation: 7% (OECD 301B, 28 days).

**12.3. Bioaccumulative potential**

Ethylene oxide-Propylene oxide copolymer monobutyl ether: 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. Endocrine disrupting properties**

No information available

**12.7. Other adverse effects**

None known

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Incinerate absorbed material with a properly licensed facility. Free product may be amenable to wastewater treatment with organic extraction. Removal of organics with activated carbon or biological treatment may be necessary. Check local, state and national/federal regulations and comply with the most stringent requirement. Unused product is not classified as a hazardous waste according to 2008/98/EC.

**SECTION 14: TRANSPORT INFORMATION****14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments**

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:** None

### 15.1.2. National regulations

#### US EPA SARA TITLE III

#### 312 Hazards:

None

**Chemicals subject to reporting requirements of Section 313 of EPCRA and of 40 CFR 372:**

None

TSCA: All chemical components are listed or exempted.

**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
- SCL: Specific Concentration Limit
- 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] / GHS:**

Classification	Classification procedure
Not applicable	Not applicable

**Relevant H-statements:** H315: Causes skin irritation.  
H320: Causes eye irritation.  
H330: Fatal if inhaled.  
H372: Causes damage to organs through prolonged or repeated exposure.  
H412: Harmful to aquatic life with long lasting effects.

**Hazard pictogram names:** Not applicable

**Further information:** None

**Date of last revision:** 9 December 2022

**Changes to the SDS in this revision:** Sections 1.1, 1.2, 2.1, 2.2, 3, 5.1, 5.2, 8.1, 9.1, 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.