

SAFETY DATA SHEET

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

Revision date: 24 April 2015 **Initial date of issue:** 12 July 2007 **SDS No.** 315B-7

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

1.1. Product identifier

389 Synthetic Tapping Compound

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

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.

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

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 controlled

2.1.4. Australian statement of hazardous nature

Hazardous according to criteria of Safe Work Australia.

2.1.5. 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:



Signal word:

Warning

Hazard statements:

H319

Causes serious eye irritation.

Precautionary statements: P280 Wear eye/face protection.
 P264 Wash face and hands thoroughly after handling.
 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.

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.	Classification (CLP/GHS)	Classification (67/548/EEC)
Ethylene oxide-Propylene oxide copolymer monobutyl ether	1-3	9038-95-3 Polymer	NA	Acute Tox. 4, H332 Eye Irrit. 2B, H320* Skin Irrit. 3, H316*	Xn; R20
Polyoxyethylene oleyl ether phosphate	1-2	39464-69-2 Polymer	NA	Skin Irrit. 2, H315 Eye Dam. 1, H318	Xi; R38-41
Ethylene oxide-Propylene oxide copolymer monobutyl ether	0.1-0.9	9038-95-3 Polymer	NA	Acute Tox. 2, H330 STOT RE 1, H372	T+; R26 T; R48/23
Other ingredients: Triethanolamine	1-2	102-71-6 203-049-8	NA	Not classified**	Not classified

Indications of danger acc. to 67/548/EEC: Xn: Harmful; T+: Very toxic; Xi: Irritant; T: T - Toxic
 For full text of H-statements and R-phrases: see SECTION 16.

*Non-CLP classification.

**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. Call a physician if you feel unwell.

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.

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

Direct contact causes eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Nonflammable. Use extinguisher appropriate to the surrounding fire.

Unsuitable extinguishing media: Not applicable

5.2. Special hazards arising from the substance or mixture

None

5.3. Advice for firefighters

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

Flammability Classification: -

HAZCHEM Emergency Action Code: not applicable

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

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

Surfaces can be slippery. 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**

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. Avoid breathing mist.

7.2. Conditions for safe storage, including any incompatibilities

Do not store near food or feed. 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 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
Ethylene oxide-Propylene oxide copolymer monobutyl ether	–	–	–	–	–	–	–	–
Polyoxyethylene oleyl ether phosphate	–	–	–	–	–	–	–	–
Triethanolamine	–	–	–	5	–	–	–	5

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].

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 (EN filter type A/P 2).

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**

Physical state	viscous liquid, cloudy	Odour	mild odor
Colour	yellow	Odour threshold	not determined
Initial boiling point	100°C (212°F)	Vapour pressure @ 20°C	not determined
Melting point	not applicable	% Aromatics by weight	0%
% Volatile (by volume)	83%	pH	8.2
Flash point	None	Relative density	1.03 kg/l
Method	PM Closed Cup	Weight per volume	8.58 lbs/gal.
Viscosity	1000 cps @ 25°C, minimum	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 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

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 toxicological effects****Primary route of exposure under normal use:** Skin and eye contact.**Acute toxicity -****Oral:**

Based on available data, the classification criteria are not met.

ATE-mix = 64554 mg/kg

Substance	Test	Result
Ethylene oxide-Propylene oxide copolymer monobutyl ether	LD50, rat	> 45000 mg/kg
Polyoxyethylene oleyl ether phosphate	LD50, rat	42300 mg/kg
Triethanolamine	LD50, rat	6400 mg/kg

Dermal:

ATE-mix = 22910 mg/kg

Substance	Test	Result
Ethylene oxide-Propylene oxide copolymer monobutyl ether	LD50, rabbit	> 21140 mg/kg
Triethanolamine	LD50, rabbit	> 2000 mg/kg

Inhalation: ATE-mix = 10.7 mg/l (mist)

Substance	Test	Result
Ethylene oxide-Propylene oxide copolymer monobutyl ether	LC50, rat, 4 h	> 1 - < 5 mg/l (mist)
Ethylene oxide-Propylene oxide copolymer monobutyl ether	LC50, rat, 4 h	0.106 mg/l (mist)

Skin corrosion/irritation: Direct contact may cause mild skin irritation.

Substance	Test	Result
Polyoxyethylene oleyl ether phosphate	Skin irritation, rabbit	Not irritating

Serious eye damage/irritation: Direct contact causes eye irritation.

Substance	Test	Result
Polyoxyethylene oleyl ether phosphate	Eye irritation, rabbit	Severe 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: 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.

Reproductive toxicity: No information available

STOT-single exposure: Not expected to cause toxicity.

STOT-repeated exposure: Not expected to cause toxicity.

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

Other information: 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

Ethylene oxide-Propylene oxide copolymer monobutyl ether, biodegradation: 7% (OECD 301B, 28 days). Triethanolamine: expected to be readily biodegradable. Polyoxyethylene oleyl ether phosphate: not readily biodegradable.

12.3. Bioaccumulative potential

Ethylene oxide-Propylene oxide copolymer monobutyl ether: not expected to bioaccumulate. Polyoxyethylene oleyl ether phosphate: 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). Triethanolamine: expected to have very high mobility in soils.

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 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.

European List of Wastes code: 12 01 09

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: None

15.1.2. National regulations**US EPA SARA TITLE III****312 Hazards:**

Immediate

Delayed

313 Chemicals:

None

TSCA: All chemical components are listed in the TSCA inventory.

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

Relevant H-statements: H315: Causes skin irritation.
 H316: Causes mild skin irritation.
 H318: Causes serious eye damage.
 H319: Causes serious eye irritation.
 H320: Causes eye irritation.
 H330: Fatal if inhaled.
 H332: Harmful if inhaled.
 H372: Causes damage to organs through prolonged or repeated exposure.

Relevant R-phrases: R20: Harmful by inhalation.
 R26: Very toxic by inhalation.
 R38: Irritating to skin.
 R41: Risk of serious damage to eyes.
 R48/23: Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Hazard pictogram names: Exclamation mark

Changes to the SDS in this revision: Sections 2.1, 2.2, 3.2, 4, 8.1, 8.2.2, 11, 12, 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.