Version: 03

Date of Issue: 23 November 2018 Date of First Issue: 13 August 2014



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SAFETY DATA SHEET ACCORDING TO EC-REGULATIONS 1907/2006

(REACH), 1272/2008 (CLP) & 2015/830

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

1.1 Product identifier

Product Name Tetra Etch Compound TEC-1

CAS No. Mixture
EINECS No. Mixture
REACH Registration No. None assigned

1.2 Recommended use of the chemical and restrictions

on use

Identified Use(s) Etchant and acids

Uses Advised Against For professional users only.

1.3 Supplier's details

Company Identification VISHAY MEASUREMENTS GROUP UK LTD

Stroudley Road Basingstoke Hampshire RG24 8FW United Kingdom

 Telephone
 +44 (0) 1256 462131

 Fax
 +44 (0) 1256 471441

 E-Mail (competent person)
 mm.uk@vishaypg.com

1.4 Emergency Phone No. (00-1) 703-527-3887 – CHEMTREC

Languages spoken 24 hours, English spoken

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP) Flam. Liq. 2; H225 Water-react. 3; H261

Skin Corr. 1B; H314 Eye Dam. 1; H318 Acute Tox. 4; H332 Carc. 2; H351 Repr. 1B; H360FD Aquatic Chronic 2; H411

2.2 Label elements According to Regulation (EC) No. 1272/2008 (CLP)

Product Name Tetra Etch Compound TEC-1

Hazard Pictogram(s)











Signal Word(s) DANGER

Contains: Sodium, Ethylene glycol dimethyl ether and Naphthalene

Hazard Statement(s) H225: Highly flammable liquid and vapour.

H261: In contact with water releases flammable gases. H314: Causes severe skin burns and eye damage.

H332: Harmful if inhaled.

H351: Suspected of causing cancer.

H360FD: May damage fertility. May damage the unborn child.

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H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s) P201: Obtain special instructions before use.

P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P310: Immediately call a POISON CENTER/doctor.

Additional Information EUH014: Reacts violently with water.

EUH019: May form explosive peroxides.

2.3 Other hazards None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Ethylene glycol dimethyl ether	70 - 80	110-71-4	203-794-9	Not yet assigned in the supply chain	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Acute Tox. 4; H332 Repr. 1B; H360FD EUH019
Naphthalene	15 - 25	91-20-3	202-049-5	Not yet assigned in the supply chain	Flam. Sol. 1; H228 Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Sodium	1 - 5	7440-23-5	231-132-9	Not yet assigned in the supply chain	Water-react. 1; H260 Skin Corr. 1B; H314 EUH014

For full text of H/P Statements see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Self-protection of the first aider

Wear suitable protective clothing. Avoid all contact. Avoid breathing vapours. Do not employ mouth-to-mouth method. A washing facility/water for eye and skin

cleaning purposes should be present.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Apply artificial respiration if necessary (do not employ mouth-to-mouth method).

Call a POISON CENTER/doctor if you feel unwell.

Skin Contact

IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned.

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Most important symptoms and effects, both acute and

Indication of any immediate medical attention and

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Eye Contact

Ingestion

delayed

4.2

4.3

5.2

Immediately call a POISON CENTER/doctor.

Liquid Sodium: Absorb spillage in suitable inert material. Rinse cautiously with water for several minutes. Immediately call a POISON CENTER/doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required. Continue irrigation until medical attention can be obtained.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Make victim drink plenty of water. Do not give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor/physician.

Causes severe skin burns and eye damage. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Can be absorbed through skin. Harmful if inhaled. Suspected of causing cancer. May damage fertility. May damage the unborn child. Inhalation of solvent vapours may give rise to nausea, headaches and dizziness.

Treat symptomatically. Due to possible delayed effect of poisoning and for safety reasons, they should be kept under medical observation for at least 48 hours.

IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist. Chemical eye burns may require extended irrigation.

IF SWALLOWED: Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture.

5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media

special treatment needed

Notes to a physician:

Dry powder (Nitrogen propellant). Extinguish preferably with dry chemical, sand, foam or carbon dioxide.

Unsuitable extinguishing media

Do not use water. In contact with water releases flammable gases.

Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. May decompose in a fire giving off toxic fumes.: Oxides of carbon, Acrid smoke, Naphthalene, Vinyl methyl ether, Methanol, Sodium methoxide, Hydrogen and polycyclic compounds. May form explosive peroxides. Sealed containers may rupture explosively if hot.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid all contact. Avoid breathing vapours. Use personal protective equipment as required. See Section: 8.

6.2 Environmental precautions

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Do not use water. Transfer to a container for disposal. Suitable containers: Polyethylene or Steel (drums),

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with a polyethylene liner. Dispose of this material and its container as hazardous

Reference to other sections 6.4 See Section: 8, 13

SECTION 7: HANDLING AND STORAGE 7.

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Handle and open container with care. Take precautionary measures against static discharge. Do not use sparking tools. Ensure adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid all contact. Do not breathe vapour. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Protect from moisture.

7.2 Conditions for safe storage, including any

incompatibilities

Ground/bond container and receiving equipment. Store in a cool/lowtemperature, well-ventilated (dry) place away from heat and ignition sources. Keep container tightly closed. Handle and open container with care. Store contents under: Nitrogen.

Storage temperature

Storage life

Incompatible materials

Keep at temperature not exceeding (°C): 0. Stable under normal conditions. Keep only in original container.

Strong oxidising agents and Acids. Keep from any possible contact with water.

Keep away from moisture.

7.3 Specific end use(s) See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

8.1 Control parameters

8.1.1 **Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Naphthalene*	91-20-3	10	53	15	80	WEL

Note: WEL: Workplace Exposure Limit (UK HSE EH40). *These OELs have been omitted from UK HSE EH40/ 2005.

8.1.2 Biological limit value Not established

8.1.3 **PNECs and DNELs** Not established.

8.2 **Exposure controls**

8.2.1 Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Local exhaust recommended. Guarantee that the eye flushing systems and safety showers are located close to the working place.

8.2.2 Individual protection measures, such as personal protective equipment (PPE)

General hygiene measures for the handling of chemicals are applicable. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Avoid all contact. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place.

Eye/ face protection



Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

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Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: Butyl

Body protection: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

Thermal hazards

8.2.3 **Environmental Exposure Controls** Not applicable.

Avoid release to the environment.

9. **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Appearance Green - Black Coloured liquid.

Odour Naphthalene Odour

Odour threshold < 1 ppm

> 12.5 (aqueous) Melting point/freezing point Not known. Initial boiling point and boiling range 85 °C

0.5 °C [Closed cup] Flash point

Evaporation rate 5 (BuAc = 1) (Ethylene Glycol Dimethyl Ether)

Flammability (solid, gas) Not applicable - Liquid.

Upper/lower flammability or explosive limits Flammable Limits (Upper) (%v/v): 1.8 (Air).

Flammable Limits (Lower) (%v/v): 10.4 (Air)

Vapour pressure 48 mm Hg (Mixture)

3.11 (Air = 1) (Ethylene Glycol Dimethyl Ether) Vapour density

Relative density Not available.

Solubility(ies) Partially soluble (Water)

Partition coefficient: n-octanol/water Not available. Auto-ignition temperature 192 °C Not available. **Decomposition Temperature** Viscosity Not available.

Explosive properties Not explosive (May form explosive peroxides).

Oxidising properties Not oxidising.

9.2 Other information Volatile Organic Compound Content: 73%

10. **SECTION 10: STABILITY AND REACTIVITY**

10.1 Stability and reactivity Stable under normal conditions. 10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions

Highly flammable liquid and vapour. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. May react violently

with water. In contact with water releases flammable gases.

10.4 Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

10.5 Incompatible materials Strong oxidising agents and Acids. Keep from any possible contact with water.

Keep away from moisture.

10.6 Hazardous decomposition product(s) May decompose in a fire giving off toxic fumes. Oxides of carbon, Acrid smoke,

Naphthalene, Vinyl methyl ether, Methanol, Sodium methoxide, Hydrogen and

polycyclic compounds.

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Reacts with - Water. Forms sodium hydroxide, naphthalene, polycyclic compounds and hydrogen.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity

Ingestion Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg

bw/day.

Naphthalene Acute Tox. 4; H302

LD50 (oral, mouse) mg/kg: 533 (OECD 401)

Inhalation Acute Tox. 4: Harmful if inhaled.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 14.7 mg/l.

Ethylene Glycol Dimethyl Ether Acute Tox. 4; H332

LC50 (Inhalation) mg/l/6 hour: 20 (OECD 403)

Skin Contact Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg

bw/day.

Skin corrosion/irritation Skin Corr. 1B: Causes severe skin burns and eye damage.

Ethylene glycol dimethyl ether Skin Irrit. 2; H315

Irritating to skin. (rabbit) (OECD 404)

Sodium Skin Corr. 1B; H314 Harmonised Classification

No data

Serious eye damage/irritation Eye Dam. 1; Causes severe skin burns and eye damage.

Respiratory or skin sensitizationBased upon the available data, the classification criteria are not met. **Germ cell mutagenicity**Based upon the available data, the classification criteria are not met.

Carcinogenicity Carc. 2: Suspected of causing cancer.

Naphthalene Carc. 2; H351

LOAEC mg/m³ (Air): 50. Carcinogenic effect: Positive (Unnamed, 2000)

Reproductive toxicity Repr. 1B: May damage fertility. May damage the unborn child.

Ethylene Glycol Dimethyl Ether Repr. 1B; H360FD

Reproductive toxicity: NOEC mg/l 0.019 (OECD 414) Developmental toxicity: NOEC mg/l 0.06 (OECD 414)

STOT - single exposure

STOT - repeated exposure

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

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

Aspiration hazard

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

11.2 Other information None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

Estimated Mixture LC50 > 1 < 10 mg/l (Fish)

Naphthalene Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Acute Toxicity: LC50 (rainbow trout) mg/l (96 hour): 1.6 (OECD 203) Chronic Toxicity: LC50 (fish) mg/l (96 hour): 2.1 (Moles, 1981)

12.2 Persistence and degradability No data for the mixture as a whole. Part of the components are poorly

biodegradable.

Ethylene Glycol Dimethyl Ether Not biodegradable. 16% Degradation (48 Days) (OECD 302 B)

Naphthalene Readily biodegradable (according to OECD criteria). >74% Degradation (28

Days) (OECD 301 B)

Sodium Not applicable for inorganic substances

12.3 Bioaccumulative potential No data for the mixture as a whole.

Ethylene Glycol Dimethyl Ether No data

Naphthalene Low bioaccumulation potential. (OECD 305)
Sodium Not applicable for inorganic substances

12.4 Mobility in soil The product is predicted to have moderate mobility in soil.

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Ethylene Glycol Dimethyl Ether

Naphthalene The substance has high mobility in soil. (Lindhardt, 1994)

Sodium Not applicable for inorganic substances

12.5 Results of PBT and vPvB assessment Not classified as PBT or vPvB. None of the substances in this product fulfil the

criteria for being regarded as a PBT or vPvB substance.

12.6 Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS 13.

13.1 Do not release undiluted and unneutralised to the sewer. This material and its Waste treatment methods

container must be disposed of as hazardous waste. Containers must be

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decontaminated in accordance with all applicable regulations.

IMDG

13.2 **Additional Information** Dispose of contents in accordance with local, state or national legislation.

ADR/RID

SECTION 14: TRANSPORT INFORMATION 14.

			ADIVIND	IIIIDO	INIA	
1	4.1	UN number	UN 2924	UN 2924	UN 2924	
1	4.2	Proper Shipping Name	FLAMMABLE LIQUID,	FLAMMABLE LIQUID,	FLAMMABLE LIQUID,	
			CORROSIVE, N.O.S.	CORROSIVE, N.O.S.	CORROSIVE, N.O.S.	
			(Sodium / Ethylene	(Sodium / Ethylene	(Sodium / Ethylene	
			Glycol Dimethyl Ether).	Glycol Dimethyl Ether).	Glycol Dimethyl Ether).	
1	4.3	Transport hazard class(es)	3 + 8	3 + 8	3 + 8	
1	4.4	Packing group	II	II	II	
1	4.5	Environmental hazards	Environmentally	Classified as a Marine	Environmentally	
			hazardous substance	Pollutant	hazardous substance	
1	4.6	Special precautions for user	See Section: 2			
1	4.7	Transport in bulk according to Annex II of MARPOL	Not applicable.			
		73/78 and the IBC Code				
1	4.8	Additional Information	None.			

SECTION 15: REGULATORY INFORMATION 15.

15.1 Safety, health and environmental

regulations/legislation specific for the substance or

mixture

15.1.1 **EU** regulations

For professional users only. CMR effects (carcinogenity, mutagenicity and

toxicity for reproduction).

Ethylene Glycol Dimethyl Ether: Entry 30: Restriction on supply of substances Authorisations and/or Restrictions On Use and mixtures to the general public, if classified as Repr. 1A or 1B.

Ethylene Glycol Dimethyl Ether, Sodium: Entry 40: Restricted in aerosol dispensers intended for supply to the general public for entertainment and

decorative purposes.

Naphthalene: Substance evaluated in 2016; evaluating Member State has CoRAP Substance Evaluation

proposed to ask the registrants to provide further information.

Ethylene Glycol Dimethyl Ether: Listed

15.1.2 **National regulations**

SVHCs

Wassergefährdungsklasse (Germany) Water hazard class: 3

15.2 **Chemical Safety Assessment** Not available.

16. **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: V3.0

Updated Sections: 1.4, 2.3, 4.1, 4.3, 5, 8.2.2, 11, 12, 15, 16.

References: Existing Safety Data Sheet (SDS), Harmonised Classification(s) for Ethylene Glycol Dimethyl Ether (CAS No. 110-71-4), Naphthalene

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(CAS No. 91-20-3) and Sodium (CAS No. 7440-23-5), Existing ECHA registration(s) for Ethylene Glycol Dimethyl Ether (CAS No. 110-71-4), Naphthalene (CAS No. 91-20-3) and Sodium (CAS No. 7440-23-5).

Literature References:

- 1. Moles A, Bates S, Rice SD and Korn S. 1981. Reduced Growth of Coho Salmon Fry Exposed to Two Petroleum Components, Toluene and Naphthalene, in Fresh Water. Trans. Am. Fish. Soc. 110:430-436.
- Lindhardt Bo, Christensen Thomas H. 1994. Measured And Estimated Volatilisation Of Naphthalene From a Sandy Soil. Chemosphere, Vol. 29, No. 7, pp. 1407-1419, 1994.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Flam. Liq. 2; H225	Flash Point [Closed cup] Test Result/ Boiling Point (°C)
Water-react. 3; H261	Estimated Physico-chemical properties of substance
Skin Corr. 1B; H314	Physico-chemical properties of substance
Eye Dam. 1; H318	Physico-chemical properties of substance
Acute Tox. 4; H332	Acute Toxicity Estimate Mixture Calculation
Carc. 2; H351	Threshold Calculation
Repr. 1B; H360FD	Threshold Calculation
Aquatic Chronic 2; H411	Summation Calculation

Fwas LEGEND

LTEL: Long Term Exposure Limit STEL: Short Term Exposure Limit DNEL: Derived No Effect Level

LOAEC: Lowest observed adverse effect concentration

PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Hazard Class / Classification code:

Flam. Liq. 3; Flammable Liquid, Category 3 Water-react. 3; Reacts with water. Category 3 Acute Tox. 4; Acute toxicity, Category 4

Skin Corr. 1B; Skin corrosion/irritation, Category 1B Eye Dam. 1; Serious eye damage/irritation, Category 1

Carc. 2; Carcinogen, category 2

Repr. 1B; Reproductive toxicity, Category 1B

Aquatic Acute 1; Hazardous to the aquatic environment, Acute,

Category 1

Aquatic Chronic 1; Hazardous to the aquatic environment,

Chronic, Category 1

Aquatic Chronic 2; Hazardous to the aquatic environment,

Chronic , Category 2

EUH014: Reacts violently with water.

Hazard Statement(s)

H226: Flammable liquid and vapour.

H261: In contact with water releases flammable gases.

H332: Harmful if inhaled.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage. H351: Suspected of causing cancer.

H360FD: May damage fertility. May damage the unborn child.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

EUH019: May form explosive peroxides.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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Annex to the extended Safety Data Sheet (eSDS)

No information available.

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