Page 1/12

# **Safety Data Sheet** according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and **GHS**

Printing date 21.04.2014 Revision: 09.04.2014

# 1 Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: T-M-C v.4 · Article number: 100921

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

No further relevant information available.

· Application of the substance / the mixture Acidic cleaner.

· 1.3 Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

Theochem Laboratories 7373 Rowlett Park Drive Tampa, FL 33610

Phone: 813-237-6463

· 1.4 Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585



### 2 Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



C; Corrosive

R34: Causes burns.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Printing date 21.04.2014 Revision: 09.04.2014

Trade name: T-M-C v.4

· Hazard pictograms

(Contd. of page 1)



- · Signal word Danger
- · Hazard statements

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P280 Wear protective gloves / eye protection.
P260 Do not breathe mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Hazard description:
- · WHMIS-symbols:

D2B - Toxic material causing other toxic effects

E - Corrosive material



NFPA ratings (scale 0 - 4)



Health = 3 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



3 Health = 30 Fire = 0

REACTIVITY Reactivity = 0

· HMIS Long Term Health Hazard Substances

None of the ingredients is listed.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

(Contd. on page 3)

Printing date 21.04.2014 Revision: 09.04.2014

Trade name: T-M-C v.4

(Contd. of page 2)

# 3 Composition/information on ingredients

- · 3.2 Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 7664-38-2	phosphoric acid	10-25%
	C R34	
Index number: 015-011-00-6	Skin Corr. 1B, H314	
CAS: 68439-46-3	alcohols, C9-11, ethoxylated	< 2,5%
NLP: 500-446-0	x Xi R38-41	
	Eye Dam. 1, H318	
	Skin Irrit. 2, H315	

#### Additional information:

For the wording of the listed risk phrases refer to section 16.

Version 4

#### 4 First aid measures

#### · 4.1 Description of first aid measures

### · General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

#### · After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

### · After eye contact:

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. Then consult a doctor.

### After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

Headache

Strong caustic effect on skin and mucous membranes.

Cramp

Coughing

Nausea

Gastric or intestinal disorders when ingested.

#### · Hazards

Danger of gastric perforation.

Danger of severe eye injury.

(Contd. on page 4)

Printing date 21.04.2014 Revision: 09.04.2014

Trade name: T-M-C v.4

(Contd. of page 3)

• 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: None.
- · 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information No further relevant information available.

### 6 Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

Clean the affected area carefully; suitable cleaners are:

Warm water

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

· 7.1 Precautions for safe handling

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about fire - and explosion protection: No special measures required.

(Contd. on page 5)

Printing date 21.04.2014 Revision: 09.04.2014

Trade name: T-M-C v.4

(Contd. of page 4)

- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles:

Unsuitable material for receptacle: steel.

Unsuitable material for receptacle: aluminium.

Store in a cool location.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

- · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · 7.3 Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

	Ingredients with limit values that require monitoring at the workplace:		
Ī	7664-38-2 ph	7664-38-2 phosphoric acid	
	IOELV (EU)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³	
İ	PEL (USA)	Long-term value: 1 mg/m³	
	REL (USA)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³	
	TLV (USA)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³	
	EL (Canada)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³	
	EV (Canada)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³	

- **DNELs** No further relevant information available.
- · PNECs No further relevant information available.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when aerosol or mist is formed.

(Contd. on page 6)

Printing date 21.04.2014 Revision: 09.04.2014

Trade name: T-M-C v.4

(Contd. of page 5)

For spills, respiratory protection may be advisable.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

Rubber gloves

PVC gloves

Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Not suitable are gloves made of the following materials: PVA gloves
- · Eye protection:

Contact lenses should not be worn.



Safety glasses

- · Body protection: Acid resistant protective clothing
- Limitation and supervision of exposure into the environment

No further relevant information available.

Risk management measures

See Section 7 for additional information.

No further relevant information available.

# 9 Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid Opaque Green

Odour: Slightly sweetishOdour threshold: Not determined.

• **pH-value at 20 °C:** 0,00 - 2,00

(Contd. on page 7)

Printing date 21.04.2014 Revision: 09.04.2014

Trade name: T-M-C v.4

(Contd. of page 6)

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.

Flash point:
Flammability (solid, gaseous):
Auto/Self-ignition temperature:
Not applicable.
Not determined.

Not determined.

Self-igniting: Product is not self-igniting.

• **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower:
Upper:
Not determined.
Not determined.

Vapour pressure:
Not determined.

Density at 20 °C:
Relative density
Not determined.

Vapour density
Not determined.

Vapour density
Not determined.
Not determined.

· Solubility in / Miscibility with

water: Fully miscible.

• Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

• 9.2 Other information No further relevant information available.

### 10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Reacts with metals forming hydrogen.

Corrosive action on metals.

Reacts with alkali (lyes).

Develops corrosive gases/fumes.

Toxic fumes may be released if heated above the decomposition point.

- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

(Contd. on page 8)

Printing date 21.04.2014 Revision: 09.04.2014

Trade name: T-M-C v.4

· 10.6 Hazardous decomposition products:

(Contd. of page 7)

Carbon monoxide and carbon dioxide Phosphorus oxides (e.g. P2O5)

### 11 Toxicological information

- 11.1 Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- · on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

# 12 Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark:

Harmful to fish

After neutralization toxicitity cannot be recognized anylonger.

- · Additional ecological information:
- · General notes:

Avoid transfer into the environment.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Water Hazard Class (Self-classification) in the concentrate.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · **vPvB:** Not applicable.

(Contd. on page 9)

Printing date 21.04.2014 Revision: 09.04.2014

Trade name: T-M-C v.4

· 12.6 Other adverse effects No further relevant information available.

(Contd. of page 8)

### 13 Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Dilute concentrate with water and neutralize afterwards with suitable material (lime or chalk). The formed salts are inert and pose little hazard.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- · 14.1 UN-Number
- · DOT, ADR, IMDG, IATA

UN1805

· 14.2 UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

· **DOT** Phosphoric acid solution, mixture

· ADR
1805 PHOSPHORIC ACID, SOLUTION, mixture
· IMDG, IATA
PHOSPHORIC ACID, SOLUTION, mixture

· 14.3 Transport hazard class(es)

· DOT



· Class 8 Corrosive substances.

· Label

· ADR



· Class 8 (C1) Corrosive substances.

(Contd. on page 10)

Printing date 21.04.2014 Revision: 09.04.2014

Trade name: T-M-C v.4

· Label (Contd. of page 9)

· IMDG, IATA



· Class 8 Corrosive substances.

· Label

· 14.4 Packing group

· DOT, ADR, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Corrosive substances.

Danger code (Kemler):
 EMS Number:
 Segregation groups
 80
 F-A,S-B
 Acids

14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

• UN "Model Regulation": UN1805, PHOSPHORIC ACID, SOLUTION, mixture, 8,

Ш

### 15 Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

7664-38-2 phosphoric acid

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65 (California):
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

(Contd. on page 11)

Printing date 21.04.2014 Revision: 09.04.2014

Trade name: T-M-C v.4

(Contd. of page 10)

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic Categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · Canada
- · Canadian Domestic Substances List (DSL)

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

7664-38-2 phosphoric acid

- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

R34 Causes burns.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

(Contd. on page 12)

Printing date 21.04.2014 Revision: 09.04.2014

Trade name: T-M-C v.4

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

·Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

(Contd. of page 11)



# **SPARKLE**

### Tile & Metal Cleaner

Surfaces that can be safely and easily cleaned with this tile and metal cleaner include porcelain, vitreous china, ceramic tile, terra cotta tile, stainless steel, chrome plate, brass, bronze, steel and plastic laminates. Rust, hard water deposits, lime deposits, uric acid, coffee stains, food stains and organic matter are removed by regular use of this tile and metal cleaner.



352024

#### PRODUCT INFORMATION:

- Removes Soap Scum and Mineral Deposits
- · Ideal for Ceramic and Metal Surfaces
- 30% Phosphoric Acid
- · Safe on Chrome

#### **DIRECTIONS FOR USE:**

LAVATORIES, BATHTUBS AND DRINKING FOUNTAINS: Dilute cleaner with 2 parts water and apply with cloth or swab mop. Allow a few minutes for the cleaner to act. Rinse with clear water. SHOWER STALLS AND CERAMIC OR TERRA COTTA TILE FLOORS: Dilute cleaner with 2 parts water and apply to walls with a swab mop. Apply to floors with a cotton string mop. Allow a few minutes for the cleaner to act. Rinse with clear water. STAINLESS STEEL, CHROME PLATE, BRASS, COFFEE URNS: Dilute cleaner with 3 parts water and apply with a soft cloth or swab mop. Allow a few minutes for the cleaner to act. Rinse with clear water. TOILETS AND URINALS: Push water out of toilet bowl using a swab mop as a plunger. Swab the entire surface of toilets and urinals with undiluted cleaner. Allow a few minutes for it to act, then flush. For toilet seats, apply a 1 to 1 dilution of cleaner to the top and bottom of the seats, then rinse with clear water.

IMPORTANT: Do not use on any surfaces other than toilets and urinals, except as directed. Do not reuse empty container. Rinse container before discarding.

### IMPORTANT SAFETY INFORMATION:



#### **DANGER**

Causes severe skin burns and eve damage. May be corrosive to metals.

Keep only in original container. Do not breathe vapors. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection.

FIRST AID: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 or physician.

#### FOR INDUSTRIAL & INSTITUTIONAL USE

Absorb spillage to prevent material damage. Store locked up. Store in corrosive resistant container with a resistant inner liner. Dispose of contents and container in accordance with local, regional, national and international regulations.

Chemtrec Emergency Response (800) 424-9300



