

# TRACE HARDNESS BUFFER

Product: R-0622

## Section 1: PRODUCT INFORMATION

**Chemical family:** Alkanolamine solution.

**Supplier:** Lowry & Associates, div. of Chem-Aquascience, Inc  
 Canadian Master Distributors for Taylor Technologies, Inc.  
 4-1151 Gorham Street  
 Newmarket, ON.  
 L3Y 8Y1  
 Tel: 905-836-0505  
 Fax: 905-895-4539.

**Emergency Phone Number:** Canutec 613-996-6666.  
 905-625-9117 (Monday - Friday 9 a.m. - 4 p.m.).

**Manufacturer:** Taylor Technologies Inc.  
 31 Loveton Circle  
 Sparks, MD USA 21152  
 Tel: 410-472-4340.

**TDG classification:** ETHANOLAMINE SOLUTION  
 UN2491  
 Class 8  
 PG II.



**WHMIS classification:**

E, D2B.



**DSL status:** Not available.

## Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
102-71-6	< 25	TRIEHANOLAMINE	5 MG/M3	4920 UL/KG RAT ORAL  5846 MG/KG MOUSE ORAL  2200 MG/KG RABBIT ORAL  > 20 ML/KG RABBIT DERMAL  > 16 ML/KG RAT DERMAL	NOT AVAILABLE
141-43-5	< 20	ETHANOLAMINE	3 PPM	1720 MG/KG RAT ORAL 700 MG/KG MOUSE ORAL 1 ML/KG RABBIT DERMAL 1000 MG/KG RABBIT ORAL	NOT AVAILABLE

### Section 3: PHYSICAL DATA

**Physical state:** Liquid.

**Appearance & odor:** Colourless.  
Amine odour.  
Clear

**Odor threshold (ppm):** None

**Vapour pressure (mmHg):** 2.3 kPa

**Vapour density (air=1):** 0.6

**Volatiles (%)**

**By volume:** 98%

**Evaporation rate (butyl acetate = 1):** Not available.

**Boiling point (°C):** 100

**Freezing point (°C):** Not available.

**pH:** 10.8

**Specific gravity @ 20 °C:** 1.2

**Solubility in water (%):** Soluble.

**Coefficient of water\oil dist.:** Not available.

**VOC:** Not available.

### Section 4: FIRE & EXPLOSION DATA

**Flammability:** Not flammable.

**Conditions of flammability:** Surrounding fire.

**Extinguishing media:** Alcohol foam, dry chemical or carbon dioxide (CO<sub>2</sub>).

**Special procedures:** Self-contained breathing apparatus required.  
Firefighters should wear the usual protective gear.

**Auto-ignition temperature (°C):** Not applicable.

**Flash point (°C), method:** Not applicable.

**Lower flammability limit (% vol):** Not applicable.

**Upper flammability limit (% vol):** Not applicable.

**Explosion Data**

**Sensitivity to static discharge:** Not applicable.

**Sensitivity to mechanical impact:** Not applicable.

**Hazardous combustion products:** Oxides of nitrogen (NO<sub>x</sub>).  
Oxides of carbon (CO<sub>x</sub>).  
Ammonia (NH<sub>3</sub>).

**Explosive power:** Not applicable.

## Section 5: REACTIVITY DATA

**Chemical stability:** Stable under normal conditions.

**Conditions of instability:** Excessive heat.  
Direct sunlight.  
Extreme temperatures.

**Hazardous polymerization:** Not available.

**Incompatible substances:** Acids  
Oleum  
Nitrites.  
Vinyl acetate.  
Strong oxidizers.

**Hazardous decomposition products:** See hazardous combustion products.

## Section 6: TOXICOLOGICAL PROPERTIES

**Route of entry:** Eye contact, skin contact, skin absorption, inhalation and ingestion.

Effects of acute exposure

**Eye contact:** Irritant.

**Skin contact:** Irritant.

**Inhalation:** May cause lung irritation.

**Ingestion:** May cause gastro-intestinal irritation.

**Effects of chronic exposure:** None known.

**LD50 of product, species & route:** Not available for mixture, see the ingredients section.

**LC50 of product, species & route:** Not available.

**Exposure limit of material:** Not available for mixture, see the ingredients section.

**Sensitization to product:** Not available.

**Carcinogenic effects:** Not listed as a carcinogen.

**Reproductive effects:** Not available.

**Teratogenicity:** Not available.

**Mutagenicity:** Not available.

**Synergistic materials:** Not available.

## Section 7: PREVENTATIVE MEASURES

### Precautionary Measures

**Gloves/Type:**



Rubber gloves.

**Respiratory/Type:** None required under normal use.



NIOSH approved respirator, if necessary.

**Eye/Type:**



Face shield.



Safety glasses.

**Footwear/Type:** Safety shoes per local regulations.

**Clothing/Type:**



Wear a rubber apron.



Lab coat.

**Other/Type:** Eye wash facility should be in close proximity.  
Emergency shower should be in close proximity.

**Ventilation requirements:** Provide sufficient mechanical ventilation to maintain exposure below TLV.

**Leak/Spill:** Wear appropriate protective equipment.  
Neutralize with diluted acid.  
Soak up with inert absorbent.  
Transfer to an approved container for disposal or recovery.

**Waste disposal:** In accordance with municipal, provincial and federal regulations.

**Handling procedures and equipment:** Avoid breathing vapors/mists.  
Use adequate ventilation.  
Wash thoroughly after using, particularly before eating or smoking.  
Wear personal protective equipment appropriate to task.  
Avoid contact with skin, eyes and clothing.  
Do not take internally.  
Launder contaminated clothing prior to reuse.

**Storage requirements:** Store away from incompatible materials.  
Keep out of direct sunlight.  
Keep containers tightly closed.  
Store in a cool, dry and well ventilated area.

**Special shipping information:** See transportation information.

## Section 8: FIRST AID MEASURES

**Skin contact:** Wash with water for at least 15 minutes.  
Get medical attention.

**Eye contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention.

**Inhalation:** Remove victim to fresh air.  
Treat symptomatically.  
If breathing is difficult, obtain immediate medical attention.

**Ingestion:** Obtain immediate medical attention.  
Give large quantities of water to drink.  
Do not induce vomiting.  
Never give anything by mouth to an unconscious person.

**Additional information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

#### **Section 9: ADDITIONAL INFORMATION**

**General note:** This material safety data sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

**Data prepared by:** Lowry & Associates, div. of Chem–Aquascience, Inc  
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