1 Product and Company Identification

Product identifier: 100% T Reference Solution
CAS #: Mixture
Product use: Analytical Calibration
Recommended restrictions: None known
Manufacturer information:
Trojan Technologies
3020 Gore Road
London, ON N5V 4T7 CA
Phone: 519-457-3400
Phone: 888-220-6118
CANUTEC
Phone: 613-996-6666

2 Hazards Identification

Physical hazards: Not classified
Health hazards: Not classified
Environmental hazards: Not classified

WHMIS 2015 defined hazards

Label elements:
- Hazard symbol: None
- Signal word: None
- Hazard statement: The mixture does not meet the criteria for classification.

Precaution statement:
- Prevention: Observe good industrial hygiene practices.
- Response: Wash hands after handling.
- Storage: Store away from incompatible materials.
- Disposal: Dispose of waste and residues in accordance with local authority requirements.

WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC): None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC): None known
Hazard(s) not otherwise classified (HNOC): None known
Supplemental information: None

3 Composition/Information on Ingredients

Mixture Composition comments: This product is considered non-hazardous by WHMIS/OSHA criteria.
4 First Aid Measures

Inhalation
If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Skin Contact
Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Eye Contact
Hold eye open and rinse gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Ingestion
Rinse mouth. Do not induce vomiting. If vomiting occurs, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or convulsing.

Indication of immediate medical attention and special treatment needed
Direct contact with eyes may cause temporary irritation.

General Information
If feeling unwell, seek medical advice (show the label and SDS where possible). Ensure medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Avoid contact with eyes and skin. Keep out of reach of children.

5 Fire Fighting Measures

Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
Move containers from fire area if you can do so without risk.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
No unusual fire or explosion hazards noted.

Hazardous combustion Products
May include and are not limited to: Oxides of carbon.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. For personal protection, refer Section 8.

Methods and materials for containment and cleanup
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions
Never return spills to original containers for re-use. For waste disposal, refer Section 13.
7 Handling and Storage

Precautions for safe handling
Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities
Store in original tightly closed container. Store away from incompatible materials (refer Section 10). Keep out of reach of children.

8 Exposure Controls/Personal Protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses with side shields (or goggles).

Skin protection: Hand protection
Impervious gloves. Confirm with reputable supplier first.

Other skin protection
Wear suitable protective clothing. As required by employer code.

Respiratory protection
Not normally required

Thermal hazards
Not applicable

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.

9 Physical and Chemical Properties

Appearance
Liquid

Odor
Odorless

Odor Threshold
Not available

pH
~7

Melting Point / Freezing Point
0°C (32°F)

Initial Boiling Point
100°C (212°F)

Specific gravity
1.00

Flash Point
Not applicable

Evaporation Rate
Not available

Flammability (solid, gas)
Not applicable

Vapor Pressure
Not available

Vapor Density
Not available

Relative Density
Not available

Auto-ignition Temperature
Not available

Decomposition Temperature
Not available

Other information:

Explosive properties
Not explosive

Oxidizing properties
Not oxidizing
10 Stability and Reactivity

Reactivity
None known

Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

Chemical stability
Material is stable under normal conditions.

Conditions to avoid
Do not mix with other chemicals.

Incompatible materials
Not corrosive to SAE 1020 Steel or non-clad Aluminum based on test data (UN Manual of Tests and Criteria, Part III, Section 37.1 -Corrosion to metals).

Hazardous decomposition products
May include and are not limited to: Oxides of carbon.

11 Toxicological Information

Routes of exposure
Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion
Expected to be a low ingestion hazard. May cause stomach distress, nausea or vomiting.

Inhalation
Health injuries are not known or expected under normal use.

Skin contact
Not corrosive or irritating to skin based on test data. No adverse effects due to skin contact are expected.

Eye contact
Not corrosive or irritating to eyes based on test data.

Symptoms related to the physical, chemical and toxicological characteristics
Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity
Not available

Skin corrosion/irritation
Prolonged skin contact may cause temporary irritation.

Exposure minutes
Not available

Erythema value
Not available

Oedema value
Not available

Serious eye damage/eye irritation
Direct contact with eyes may cause temporary irritation.

Corneal opacity value
Not available

Iris lesion value
Not available

Conjunctival reddening value
Not available

Recover days
Not available

Respiratory or skin sensitization

Respiratory sensitization
Not a respiratory sensitizers.

Skin sensitization
This product is not expected to cause skin sensitization.

Mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
Formaldehyde (CAS 50-00-0)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Teratogenicity
Not available
SAFETY DATA SHEET

Specific target organ toxicity (single exposure)  
Not classified

Specific target organ toxicity (repeated exposure)  
Not classified

Aspiration hazard  
Not an aspiration hazard.

12 Ecological Information

Ecotoxicity  
Not available

Persistence and degradability  
Not available

Bioaccumulative potential  
Not available

Mobility in soil  
Not available

Mobility in general  
Not available

Other adverse effects  
Not available

Aquatic toxicity  
Toxic to aquatic life.

13 Disposal Information

Disposal instructions  
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

Local disposal regulations  
Dispose in accordance with all applicable regulations.

Hazardous waste code  
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products  
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging  
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14 Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification  
In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods. Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

U.S. Department of Transportation (DOT)  
Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)  
Not regulated as dangerous goods.
## 15. Regulatory Information

### Canadian federal regulations
This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

**Canada DSL Challenge Substances: Listed substance**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Listing Status</th>
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<tbody>
<tr>
<td>Formaldehyde (CAS 50-00-0)</td>
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**Export Control List (CEPA 1999, Schedule 3)**

<table>
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<tr>
<td>Formaldehyde</td>
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**Greenhouse Gases**

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**Precursor Control Regulations**

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**WHMIS Classifications**

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### US federal regulations

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

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**CERCLA Hazardous Substance List (40 CFR 302.4)**

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<table>
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<tbody>
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**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

<table>
<thead>
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<th>Category</th>
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<tbody>
<tr>
<td>Immediate Hazard</td>
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<tr>
<td>Delayed Hazard</td>
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<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Pressure Hazard</td>
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<tr>
<td>Reactivity Hazard</td>
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**SARA 302 Extremely hazardous substance**

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**SARA 311/312 Hazardous chemical**

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**SARA 313 (TRI reporting)**

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### Other federal regulations

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

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<tbody>
<tr>
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<td>Not regulated</td>
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**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

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### Inventory status

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<th>On inventory (yes/no)*</th>
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<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
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</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA)</td>
<td>Yes</td>
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</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s).*
16. Other Information

**Disclaimer**
The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**NFPA Code**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<td>Health</td>
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<tr>
<td>Flammability</td>
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<tr>
<td>Reactivity</td>
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**LEGEND**

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<td>Serious</td>
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<td>Minimal</td>
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**Issue Date**
02-March-2018

**Version #**
01

**Effective Date**
02-March-2018

**Prepared by**
Manufacturer Personnel

**Other Information**
For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.