



Safety Data Sheet

TRADE NAME: **TEK-454**

Envirotek Screen Wash

1. IDENTIFICATION

Product Identifier: Tek-454
Other Means of Identification: Screen Wash
Recommended Use: Screen printing mesh ink remover
Product form: Mixture

Supplier Identifier Teknecal Screen Print Supplies Inc.
6-733 Industrielle Street
Rockland, Ontario K4K 1T2
613.446.7171 / 800.547.9318

Emergency Phone # 24/7 CANUTEC 613.996.6666

2. HAZARD IDENTIFICATION

Classification:

- H226** Flammable liquids 3
- H311** Acute toxicity 3 (Dermal)
- H332** Acute toxicity 4 (Inhalation)
- H315** Skin irritant 2
- H319** Eye irritant 2A
- H317** Sensitization (Skin) 1
- H360** Reproductive toxicity 1B
- H372** STOT RE (Specific target organ toxicity / Repeated exposure) 1
- H304** Aspiration hazard 1

Hazard Pictograms:



Signal word: DANGER

Hazard Statements:

- H226** Flammable liquid and vapour.
- H311** Toxic in contact with skin.
- H332** Harmful if inhaled.
- H315** Causes skin irritation.

- H319** Causes serious eye irritation.
- H317** May cause an allergic skin reaction.
- H360** May damage fertility or the unborn child.
- H372** Causes damage to organs through prolonged or repeated exposure.
- H304** May be fatal if swallowed and enters airways.

Precautionary Statements:

- P201** Obtain special instructions before use.
- P202** Do not handle until all safety precautions have been read and understood.
- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233** Keep container tightly closed.
- P240** Ground/bond container and receiving equipment.
- P241** Use explosion-proof electrical/ventilation/lighting equipment.
- P242** Use only non-sparking tools.
- P243** Take action to prevent static discharges.
- P260** Do not breathe dust/fume/gas/mist/vapours/spray.
- P264** Wash hands, forearms and face thoroughly after handling.
- P270** Do not eat, drink or smoke when using this product.
- P271** Use only outdoors or in a well-ventilated area.
- P272** Contaminated work clothing should not be allowed out of the workplace.
- P280** Wear protective gloves/protective clothing/eye protection/face protection.
- P308, P313**
If exposed or concerned: Get medical advice/attention.
- P301, P310, P331**
IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
- P302, P352, P361, P364, P333, P313**
IF ON SKIN: Wash with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs; get medical advice/attention.
- P304, P340, P312**
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if victim feels unwell.
- P305, P351, P338, P337, P313**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists; get medical advice/attention.
- P403, P235**
Store in a well-ventilated place. Keep cool.
- P405** Store locked up.
- P501** Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Unknown acute toxicity: 15% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal).
61% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours)).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	%
Alcohols, C9-11, Ethoxylated	68439-46-3	From 10 to 30%
D-Limonene	5989-27-5	From 10 to 30%
2-Butoxyethanol	111-76-2	From 7 to 13%
Diethylene Glycol Monobutyl Ether	112-34-5	From 5 to 10%
1-Methyl-2-Pyrrolidone	872-50-4	From 5 to 10%
Naphtha, Petroleum, Hydrotreated Heavy	64742-48-9	From 3 to 7%
Ethylene Glycol Monobutyl Ether Acetate	112-07-2	From 1 to 5%

4. FIRST-AID MEASURES

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if victim feels unwell.

Skin Contact: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs, get medical advice/attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled: Harmful if inhaled. May cause irritation to the respiratory tract.

If on skin: Toxic in contact with skin. Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction.

If in eyes: Causes serous eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

If swallowed: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May result in aspiration into the lungs, causing chemical pneumonia.

Immediate Medical Attention and Special Treatment: Symptoms may be delayed. In case of accident or if victim feels unwell, seek medical advice immediately

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Use extinguishing media appropriate for surrounding fire.

Unsuitable: Non known.

Specific Hazards Arising from the Product: Flammable liquid and vapour. Products of combustion may include, and are not limited to: oxides of carbon. May form flammable/explosive vapour-air mixture.

Special Protective Equipment and Precautions for Fire-fighters: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges. Remove all sources of ignition.

Methods and Materials for Containment and Cleaning Up: Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment. Sweep or shovel spills into appropriate container for disposal. Provide ventilation. For further information, refer to section 8.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours. Do not swallow. Handle and open container with

care. When using, do not eat, drink or smoke. Take precautionary measures against static discharge. Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Handle empty containers with care because residual vapours are flammable.

Hygiene measures: Wash contaminated clothing before reuse. Always wash hands after handling the product.

Conditions for Safe Storage: Keep out of reach of children. Keep container tightly closed and in a well-ventilated place. Keep cool. Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Diethylene Glycol Monobutyl Ether	USA-ACGIH	ACGIH TWA (ppm)	10 ppm (inhalable fraction and vapour)
2-Butoxyethanol	USA-ACGIH	ACGIH TWA (ppm)	20 ppm
	USA-ACGIH	Remark (ACGIH)	Eye & URT irr
	USA-ACGIH	Regulatory reference	ACGIH 2017
Ethylene Glycol Monobutyl Ether Acetate	USA-ACGIH	ACGIH TWA (ppm)	20 ppm

Appropriate Engineering Controls: Ensure good ventilation of the work station.

Environmental Exposure Controls: Avoid release to the environment.

Individual Protection Measures:

Eye/Face Protection: Wear eye/face protection.

Skin Protection: Wear suitable protective clothing and gloves resistant to chemical penetration.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Physical state:	Liquid	Vapour Pressure:	No data available
Appearance:	Clear	Vapour Pressure at 50°C:	No data available
Colour:	Colourless	Relative Density:	No data available
Odour:	Sweet	Solubility:	No data available
Odour Threshold:	No data available	Partition Coefficient, n-Octanol/Water:	No data available
PH:	No data available	Auto-ignition Temperature:	No data available
Melting Point:	No data available	Decomposition Temperature:	No data available
Freezing Point:	No data available	Viscosity, kinematic:	No data available
Boiling Point:	No data available	Explosive limits:	No data available
Flash Point:	No data available		
Evaporation Rate:	No data available		
Flammability (solid, gas):	No data available		

10. STABILITY AND REACTIVITY

Reactivity: No dangerous reactions known under normal conditions of use.

Chemical Stability: Stable under normal conditions. May form flammable/explosive vapour-air mixture.

Possibility of Hazardous Reactions: No dangerous reactions known under normal conditions of use.

Conditions to Avoid: Heat. Incompatible materials. Sources of ignition. Direct sunlight.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon. May release flammable gases.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (oral): Not classified.

Acute toxicity (dermal): Toxic in contact with skin.

Acute toxicity (inhalation): Vapour. Harmful if inhaled.

Acute Toxicity

Chemical Name	LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
Alcohols, C9-11, Ethoxylated	No data available	Rat 1400 mg/kg	No data available
D-Limonene	No data available	Rat 4400 mg/kg	Rabbit >5 g/kg
Diethylene Glycol Monobutyl Ether	No data available	Rat 5660 mg/kg	Rabbit 2700 mg/kg
2-Bytoxiethanol	Rat 486 ppm/4h	Rat 470 mg/kg	Rabbit 99 mg/kg
1-Methyl-2-Pyrrolidone	Rat >5.1 mg/l/4h	Rat 3914 mg/kg	Rabbit 8 g/kg
Naphtha, Petroleum, Hydrotreated Heavy	Rat >8500 mg/m ³ /4h	Rat >6000 mg.kg	Rabbit >3160 mg/kg
Ethylene Glycol Monobutyl Ether Acetate	Rat >400 ppm/4h	Rat 2400 mg/kg	Rabbit 1500 mg/kg

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

STOT – Single Exposure: Not classified

STOT – Repeated Exposure: Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: May damage fertility or the unborn child.

Symptoms / effects after:

Inhalation: Harmful if inhaled. May cause irritation to the respiratory tract.

Skin contact: Toxic. Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reactions.

Eye contact: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Ingestion: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May result in aspiration into the lungs, causing chemical pneumonia.

Other information: Likely routes of exposure: ingestion, inhalation, skin and eye.

12. ECOLOGICAL INFORMATION

Ecology – general: May cause long-term adverse effects in the aquatic environment.

Chemical Name	LC50 – Fish 1	LC50 – Fish 2	EC50 – Daphnia 1
D-Limonene	0.619-0.796 mg/l/96h – Pimephales promelas (flow-through)	35 mg/l/96h – Oncorhynchus mykiss	No data available
Diethylene Glycol Monobutyl Ether	1300 mg/l/96h – Lepomis macrochirus (Static)	No data available	>100 mg/l/48h – Daphnia magna
2-Butoxyethanol	1490 mg/l/96h – Lepomis macrochirus (Static)	2950 mg/l/96h Lepomis macrochirus (static)	>1000mg/l/48h – Daphnia magna
1-Methyl-2-Pyrrolidone	832 mg/l/96h – Lepomis macrochirus	1072 mg/l/96h – Pimephales promelas (Static)	4897 mg/l/48h – Daphnia magna
Naphtha, Petroleum, Hydrotreated Heavy	2200 mg/l/96h – Pimephales promelas	No data available	No data available
Ethylene Glycol Monobutyl Ether Acetate	No data available	No data available	37 mg/l/48h Daphnia magna

Persistence and degradability: Not established.

Bioaccumulative potential: Diethylene Glycol Monobutyl Ether – BCF fish1: No Bioconcentration expected.

2-Butoxyethanol – Partition coefficient n-Octanol/water: 0.81 (at 25°C)

1-Methyl-2-Pyrrolidone – Partition coefficient n-Octanol/water: -0.46 (at 25°C)

Ethylene Glycol Monobutyl Ether Acetate – BCF fish 1: No significant bioaccumulation

Ethylene Glycol Monobutyl Ether Acetate – Partition coefficient n-Octanol/water: 1.51

Mobility in soil: 2-Butoxyethanol – Partition coefficient n-Octanol/water: 0.81 (at 25°C)

1-Methyl-2-Pyrrolidone – Partition coefficient n-Octanol/water: -0.46 (at 25°C)

Ethylene Glycol Monobutyl Ether Acetate – Partition coefficient n-Octanol/water: 1.51

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose in a safe manner in accordance with local/national regulations. Handle empty containers with care because residual vapours are flammable.

14. TRANSPORT INFORMATION

TDG (Canada):

UN Number: Not applicable

UN Proper Shipping Name: Not regulated

Transport Hazard Classes: Not applicable

Packing Group: Not applicable

Environmental Hazards: No

15. REGULATORY INFORMATION

National regulations: All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

International regulations: No additional information available.

16. OTHER INFORMATION

Date of Preparation: June 19th, 2018

Date of Last Revision

Prepared by: Teknecal Screen Print Supplies Inc.

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