

SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

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**Product Name: Type TR™
Solvent Wipe**

Chemical Description: Non-flammable Solvent
Azeotrope

Product Use: Cleaning Preparation

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Reviewed By: S. H. Dahlke

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS #</u>	<u>Weight %</u>
1-Bromopropane	106-94-5	>95 (< 10 gms/pack)

3. HAZARDS IDENTIFICATION

Emergency Overview: CAUTION: Use with adequate ventilation. Do not ingest. Avoid contact with skin. In case of eye contact, flush eyes with water. Keep out of reach of children. Industrial use only.

4. FIRST AID MEASURES

Eye Contact: If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. For direct eye contact, flush with large quantity of water for 15 minutes. If irritation persists, seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with water.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

Ingestion (Swallowing): Maximum amount in a single pack is less than 6 mls of solvent. If swallowed, give two glasses of water. Seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash Point:: None (TCC) for solvent (bulk)

Flammable Limits: Approximately 3-8% in air.

Autoignition Temperature: Not Available

Hazardous Combustion Products: Include hydrogen bromide, bromine and oxides of carbon. Include oxides of nitrogen.

Extinguishing Media: In case of fire, use extinguishing media suitable for surrounding conditions, possibly water, foam, carbon dioxide, or dry agent.

Special Precautions: Towelettes will ignite. If burning, smother or isolate from other flammable materials.

Unusual Hazards: Vapors are heavier than air and may travel considerable distances.

6. ACCIDENTAL RELEASE MEASURES

No spill hazard with saturated towel package.

7. HANDLING AND STORAGE

Keep boxes containing solvent wipes closed. Keep towelettes cool, dry, and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. All towelettes should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	Towelette contains limited solvent. Normal ventilation adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH approved) or use supplied air equipment.
Protective Gloves:	The use of impermeable gloves is recommended to prevent drying and possible irritation.
Eye Protection:	Eye protection is recommended, especially if the material is used in ways where it could splash in the eyes.
Other Protective Equipment:	It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.
Exposure Limits and Recommendations:	An AEL (acceptable exposure limit) of 25 ppm has been recommended by the United States EPA. OES/LTEL 100 ppm (525mg/m ³)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	A non-linting towel, lightly saturated with clear, colorless liquid
Odor Threshold:	Very low
Vapor Density of Solvent(Air = 1):	4.3
Specific Gravity of Solvent(H₂O = 1):	1.33
Solubility in Water of Solvent:	2.4 grams per liter
Boiling Point of Solvent:	IBP 71 °C
Melting Point of Solvent:	-110 °C
Evaporation Rate of Solvent:	>>1 (n-butyl acetate = 1)
Vapor Pressure of Solvent:	139 mm Hg @ 25 °C
Coefficient of Water/Oil Distribution:	Not Available
pH:	Not Applicable
Percent Volatiles of Solvent (Weight):	100%

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Avoid heat, flame or other hot surfaces that could cause thermal decomposition.
Materials to Avoid:	Strong alkalis, oxidizers and reactive metals (i.e. potassium, sodium, etc.).
Hazardous Decomposition Products:	Thermal decomposition products include hydrogen bromide, bromine and oxides of carbon as well as oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Eye Contact:	Direct eye contact with vapors or splashes may cause eye irritation.
Skin Contact:	Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin

Irritation and Sensitization Potential:	irritation from this material. Not expected to be acutely toxic. Expected to be a skin irritant.
Inhalation (Breathing):	Not expected to be acutely toxic. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue) and may cause adverse effects in the liver, lung, and kidney. Persons with impaired lung function may experience additional breathing difficulties due to the irritant properties of this material.
Ingestion (Swallowing):	Not expected to be acutely toxic.
Oral Toxicity:	LD ₅₀ (rat) 4260 mg/kg.
Chronic Exposure:	Not Available.
Carcinogenic Status:	This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.
Reproductive Toxicity:	Not Available
Mutagenicity:	Not Available
Teratogenicity:	Not Available
Toxicologically Synergistic Products:	Not Available

12. ECOLOGICAL INFORMATION

Mobility:	Sinks in water.
Bioaccumulation:	Low potential.
Ecotoxicity:	Large volumes may penetrate soil and contaminate groundwater. (Unlikely in towelette package.)
Ozone Depletion Potential:	.013 - .018
Other:	Not readily biodegradable, but low atmospheric lifetime.

13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with national and local regulations.

14. TRANSPORTATION INFORMATION

UN Number:	Not Listed
Hazard Warning Label:	Not Applicable

15. REGULATORY INFORMATION

Safety phrases:	24/25 avoid contact with skin and eyes
	23 do not breathe vapor
	51 use only in well ventilated areas
	20/21 when using do not eat, drink, or smoke

16. OTHER INFORMATION

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.