

**1. CHEMICAL NAME AND COMPANY IDENTIFICATION**

**Formulated/Manufactured By:** Tower Products, Inc.  
2703 Freemansburg Avenue  
Easton, PA 18045

**Information Telephone Number:** 1-800-527-8626 or 610-253-6206

**For Chemical Spill Emergency Call:** CHEMTREC: 1-800-424-9300

**Product Name:** 18-M CLEANER & MRC  
(Ultra Fast Drying Ink MRC and Ink Cleaner)

**CAS Number:** Mixture - Not Established

**2. HAZARD(S) IDENTIFICATION****GHS Classification**

Flammable Liquids (Category 2)  
Aspiration Hazard (Category 1)  
Toxic To Reproduction (Category 2)  
Specific Target Organ Toxicity - Single Exposure (Category 2)  
Specific Target Organ Toxicity - Single Exposure (Category 3)  
Acute Toxicity - Inhalation (Category 4)  
Skin Irritation (Category 2)  
Eye Irritation (Category 2A)

**GHS label elements, including hazard and precautionary statements**

Pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

H225: HIGHLY FLAMMABLE LIQUID AND VAPOR.  
H304: MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.  
H361: SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.  
H371: MAY CAUSE DAMAGE TO ORGANS.  
H335: MAY CAUSE RESPIRATORY IRRITATION.  
H336: MAY CAUSE DROWSINESS OR DIZZINESS.  
H332: HARMFUL IF INHALED.  
H315: CAUSES SKIN IRRITATION.  
H319: CAUSES SERIOUS EYE IRRITATION.

Precautionary statement(s)

Prevention:

P201: OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.  
P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES AND OTHER IGNITION SOURCES.  
NO SMOKINGS.  
P240: GROUND AND BOND CONTAINER AND RECEIVING EQUIPMENT.  
P260: DO NOT BREATHE FUMES/MIST/VAPOR/SPRAY.  
P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/FACE PROTECTION/EYE PROTECTION.  
P264: WASH SKIN THOROUGHLY AFTER HANDLING

## SAFETY DATA SHEET

18-M CLEANER &amp; MRC

DATE: 1/1/2015

## Response:

P370+P378: IN CASE OF FIRE: USE DRY CHEMICAL OR CARBON DIOXIDE TO EXTINGUISH.

P301+P310+P331: IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR. DO NOT INDUCE VOMITING.

P304+P340: IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

P303+P361+P353 IF ON SKIN (or hair): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER (OR 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.

P308+P313: IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.

## Storage:

P403+P233+P405: STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. STORE LOCKED UP.

## Disposal:

P501: DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL REGULATIONS.

**HMIS Classification**

Health Hazard: 2

Flammability: 2

Physical Hazard: 0

Personal Protection: B

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Component(s)</u>	<u>CAS Number</u>	<u>*Concentration (weight)</u>
Toluene	108-88-3	50-70%
Acetone	67-64-1	10-30%
Isopropyl Alcohol	67-63-0	10-30%

\* In accordance with paragraph (i) of §1910.1200, exact chemical percentages (concentration) of composition have been withheld as a trade secret.

**4. FIRST AID MEASURES****Exposure Routes:** Inhalation, Ingestion, Skin**Eye Contact:** Flush with large volume of water for at least 15 minutes. Get immediate medical attention.**Inhalation:** Remove to fresh air. Get immediate medical attention.**Ingestion:** Get immediate medical attention. Do not induce vomiting.**Skin Contact:** Flush area with large amounts of water for at least 15 minutes. Get immediate medical attention.**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media:** Use dry chemical or carbon dioxide.**Specific Hazards: Flammable Liquid.** Upon combustion, the product may form carbon monoxide and other organic compounds. Product containers may rupture from vapor pressure when exposed to heat from fire.**Special protective equipment for fire-fighters:** Use self contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions and protective equipment:**

Respiratory Protection: **Use supplied air equipment or respirators with proper NIOSH approved cartridges.**

Protective Gloves: **Impervious or chemical resistant gloves (consult safety equipment supplier).**

Eye Protection: **Chemical splash goggles recommended against potential eye contact.**

Other Protective Clothing and Equipment: **Safety shoes and aprons recommended.**

**Methods for Clean-Up:**

**Minor Spills:** Absorb material with ground clay, vermiculite, sand, or similar absorbent material and place into containers for disposal according to local and/or state regulations.

**Major Spills:** Dike and contain spill. Eliminate potential sources of ignition, and shut off source of spill if possible. Remove liquid by chemical vacuum, absorbent material, or other safe and approved methods, and place into containers for disposal according to local and/or state regulations. Flush area with water to remove residue, and remove flushed solutions as above.

**7. HANDLING AND STORAGE**

**Handling:** Flammable Liquid - empty containers can be hazardous and contain explosive vapors. Keep containers closed when not in use. Ground fixed equipment. Bond and ground transfer equipment and containers.

**Storage:** Store in a cool, dry, ventilated area, away from incompatible substances.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****Exposure Guidelines:**

<u>COMPONENT</u>	<u>CAS No.</u>	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV/TWA</u>	<u>ACGIH TLV/STEL</u>	<u>OTHER RATING</u>
Toluene	108-88-3	200ppm	20ppm	150ppm	-
Acetone	67-64-1	1000ppm	500ppm	750ppm	-
Isopropyl Alcohol	67-63-0	400ppm	200ppm	400ppm	-

**Exposure Controls:** Avoid open electrical sources near product vapor areas.

**Personal Protection Equipment:**

**Eyes:** Chemical splash goggles recommended.

**Skin and body:** Impervious or chemical resistant gloves (consult safety equipment supplier).

**Respiratory:** Ventilation in work area should be sufficient to maintain atmosphere with vapor level below lowest listed TLV. If TLV's are exceeded, use a respirator with appropriate NIOSH approved cartridges or supplied air equipment.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** N/A

**Odor:** N/A

**Odor Threshold:** N/A

**pH:** N/A

**Melting point:** N/A

**Boiling Point:** 133 °F

**Flash point:** (Typical/Estimated): 0°F

**Evaporation Rate:** N/A

**Flammable Limits:** (Approximate)

**LEL:** 1.4%

**UEL:** 12.8%

**Vapor Pressure:** 63.4 (Calculated)

**Vapor Density:** (Air = 1) 2.77 (Calculated)

**Solubility in water:** Negligible

**Specific Gravity:** (Water = 1) 0.838

**Maximum VOC Content:** 5.7 lbs/gallon (679gm/liter) – Acetone exempt

**Maximum VOC %:** 82%

**Relative Density:** N/A  
**Partition Coefficient: N-Octano/Water:** N/A  
**Auto-ignition Temperature:** N/A  
**Decomposition Temperature:** N/A  
**Viscosity:** N/A

#### 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable  
**Incompatibility:** Avoid strong oxidizing agents.  
**Hazardous Decomposition Products:** Carbon monoxide and other compounds during combustion.  
**Hazardous Polymerization:** Will not occur  
**Conditions to Avoid:** Avoid exposure to high heat sources, electrical and welding arcs and open flame. Also avoid strong oxidizing agents, halogens, concentrated nitric or sulphuric acid or molten sulphur.  
**Warning:** Spontaneous combustion may occur when solvent soaked combustible materials (paper, cotton etc.) are allowed to stand in confined areas.

#### 11. TOXICOLOGICAL INFORMATION

##### (ATE) FOR MIXTURE:

Specific tests have not been conducted on this product. Our evaluations based on information from the ingredients and technical literature. Data for this material has been used to estimate the symptoms and effects of exposure.

##### Oral LD50:

LD50 Oral - No data available

##### Dermal LD50:

LD50 Dermal - No data available

##### Inhalation LC50:

LC50 Inhalation -  $\geq 18$  mg/l

##### Other information on Acute Toxicity:

No data available

**Routes of exposure:** Inhalation, Ingestion, Skin

**Acute:** Overexposure may lead to skin irritation, eye irritation, and central nervous system depression, leading to headaches, nausea and unconsciousness.

**Chronic:** Overexposure in high concentrations may produce central nervous system depression, dermatitis and eye irritation.

**Signs and Symptoms of Exposure:** Overexposure may lead to dizziness, headaches, dermatitis and eye irritation.

**Medical Conditions Aggravated by Exposure:** Preexisting eye, skin, liver, kidney, brain, or respiratory disorders may be aggravated by exposure.

**Carcinogenicity (NTP, IARC, OSHA):** Components of this product have not shown any evidence of carcinogenicity.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in the soil:** No data available

**Other adverse effects:** No data available

**13. DISPOSAL CONSIDERATIONS****Waste disposal methods:**

Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**14. TRANSPORTATION INFORMATION**

<u>U.S. DOT DESIGNATION</u>	<u>ID NUMBER</u>	<u>HAZARD CLASS</u>	<u>PACKING GROUP</u>
Flammable Liquids, N.O.S. (Contains Isopropyl Alcohol, Acetone, Toluene)	UN1993	3	II

**U.N. DESIGNATION**

Same as D.O.T.

**15. REGULATORY INFORMATION**

**Regulatory Information:** This information may be useful in complying with various federal and state regulations. Components present in this product at a level which could require reporting under EPA Regulation 40CFR302 (CERCLA) Section 102 and EPA Regulation 40CFR372 (SARA) 313: This product contains approximately 60% Toluene and 20% Acetone.

Product may contain components which are further regulated by state and/or local agencies - Consult Appropriate Agencies.

**Notification status:**

U.S.A.: Toxic Substances Control Act (TSCA)	Y
Canada: Domestic Substances List (DSL):	Y

**16. OTHER INFORMATION**

**For More Information, Consult Tower Products, Inc.**

**This Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied Is Made.**

**Date of Preparation:** January 1, 2015