

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **SMARTFLEX WASHOUT SOLUTION NF** (New Generation Photopolymer Developing Solution)

Company Name: **Tower Products, Inc.**,  
Address: 2703 Freemansburg Ave., Easton, PA 18045

Information Phone: 800-527-8626 or 610-253-6206  
**For Chemical Spill Emergency - Call 1-800-424-9300**

**SECTION 2: HAZARDS IDENTIFICATION**

Emergency Overview: This product poses no immediate or long term hazards when used according to directions. Exposure through unexpected or abnormal routes of entry may require immediate attention.

NFPA Classification: Health: 2 Flammability: 2 Reactivity: 0

**Potential Health Hazards:**

Eye Contact: Causes severe eye irritation.

Skin Contact: Causes irritation.

Inhalation: Medical conditions which may be aggravated by exposure – asthma, bronchitis, emphysema and other respiratory disorders. Although not present under normal conditions, high vapor concentrations are irritating to the eyes and respiratory tract and may cause headaches, dizziness and central nervous system effects.

Ingestion: Not a normal route of entry. May cause upset stomach and nausea. Do not induce vomiting. Contact physician.

Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

**SECTION 3: INFORMATION ON INGREDIENTS**

Component Name	CAS Number	%	OSHA PEL	ACGIH TLV
Petroleum Hydrocarbon	*	20-50	Not Established	Not Established
Aliphatic Alcohol	*	10-30	50ppm (skin)	50ppm (skin)
Aliphatic Hydrocarbon	*	40-60	100 ppm	100 ppm

\* The specific chemical identity is a Trade Secret and is therefore not being disclosed in the msds. The msds includes health hazard information for these compounds. Potential hazard information is not being withheld. The specific chemical identity will be provided upon request by physician or other health-related personnel.

**SECTION 4: FIRST AID MEASURES**

Eye Contact: Flush eyes with water for 15 minutes, lifting lids occasionally. Get immediate medical attention.

Skin Contact: Wash off with soap and water and flush with water. If irritation develops, get medical attention.

Inhalation: If dizziness, coughing, irritation or tightness in the chest is experienced, remove to fresh air. Administer oxygen if breathing is difficult. Get immediate medical attention.

Ingestion: If the material is swallowed, do not induce vomiting. Get immediate medical attention.

**SECTION 5: FIRE-FIGHTING MEASURES**

Flash Point (TCC): 145 degrees F. minimum

Auto Ignition Temperature: Approximately 802 degrees F

Explosive Limits in Air: Lower: Approximately 0.6% Upper: Approximately 7.0%

Extinguishing Media: Carbon dioxide, dry chemical, water spray or foam.

Special Fire Fighting Procedures: Use self-contained breathing apparatus.

Unusual Fire and Explosion Hazard: Combustible liquid. May ignite if exposed to heat, sparks or open flame. Could generate oxides of carbon and other decomposition products of undetermined hazards.

NFPA: Health: 2 Flammability: 2 Reactivity: 0

**Empty Container Warning:** Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not Pressurize, Cut, Weld, Braze, Solder, Drill, Grind or expose such containers to Heat, Flame, Static Electricity, or other sources of ignition as they may explode and cause injury or death.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**In Case of Material Spills:** Evacuate area of all non-essential personnel. Remove all sources of ignition. Ventilate confined spaces. Wear gloves, goggles, apron or lab coat and respirator. Contain spill with absorbent material such as sand or earth. Do not use combustible material such as sawdust. Using non-sparking tools, shovel into salvage container.

**SECTION 7: HANDLING AND STORAGE**

Store in a cool, well-ventilated area away from flammable materials and sources of heat, sparks or flame.  
Use with electrically grounded equipment.

Practice good housekeeping and vigorous personal hygiene to minimize contact with material.  
This product is for industrial use only. Do not reuse container.

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Eye Protection:	Chemical splash goggles.
Skin Protection:	Impervious nitrile or butyl rubber gloves.
Respiratory Protection:	Use NIOSH approved respirator with NIOSH approved organic vapor cartridges, if recommended exposure levels are exceeded.
Ventilation:	Use local and mechanical exhaust to minimize exposure to vapors and mists.
Recommended Exposure Limits:	100ppm total hydrocarbons and 50ppm alcohol.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and Odor:	Clear, colorless liquid. Aromatic hydrocarbon odor.
Solubility:	Less than 0.1%
Boiling Point:	365-405 degrees F @ 760mmHg
Specific Gravity:	0.86
Vapor Pressure:	Less than 3 mmHg @100 degrees F
Vapor Density (air=1):	NA
VOC % by wt:	7.2#/Gal

**SECTION 10: STABILITY AND REACTIVITY**

This product is stable and non-reactive.  
Incompatibility: Sulfuric acid, strong oxidizing agents, inorganic acids, halogens, aldehydes, acid anhydrides, alkylene oxides, monomers and polymerizable esters.  
Hazardous polymerization will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

No acute or chronic toxic effects known or expected when used according to directions. Chronic Overexposure: This product Contains 0.2% Naphthalene. An NTP draft report states that lifetime inhalation exposure to naphthalene resulted on increases in tumors of the nose of rats. In a previous study, lifetime inhalation exposure increased lung tumors in female rats. The relevance to these findings to humans is not known.

**SECTION 12: ECOLOGICAL INFORMATION**

Not Determined.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Waste liquid can be incinerated or used for fuel blending. Waste products may be hazardous due to ignitability. Dispose of in accordance with applicable local, state and federal regulators.

**SECTION 14: TRANSPORTATION INFORMATION**

DOT Classification: Not regulated in non-bulk packaging.  
In bulk packaging: Combustible Liquid, N.O.S. (contains petroleum hydrocarbons), NA1993, PGIII

**SECTION 15: REGULATORY INFORMATION**

TSCA: All ingredients used in this product are listed in the TSCA inventory.  
SARA TITLE III: This product contains no chemicals on the EPA's list of Toxic Release Chemicals under Section 313 above regulated thresholds.  
1990 CAA HAPS: This product contains 0.2% naphthalene

**SECTION 16: OTHER INFORMATION**

**FOR MORE INFORMATION, CONSULT TOWER PRODUCTS, INC.**  
**THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED IS MADE.**