

**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: USA/Canada 1-800-424-9300  
Mexico 800-681-9531

**Product Name:** SMARTFLEX ANILOX ROLLER CLEANING GEL  
(Premium Anilox Roller Cleaner)

**CAS Number:** Mixture - Not Established

**2. HAZARDS IDENTIFICATION****GHS Classification**

Flammable Liquids (Category 4)  
Acute Toxicity - Oral (Category 4)  
Acute Toxicity - Dermal (Category 4)  
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

WARNING!

Hazard statement(s)

H227: COMBUSTIBLE LIQUID.  
H302: HARMFUL IF SWALLOWED  
H312: HARMFUL IN CONTACT WITH SKIN.  
H332: HARMFUL IF INHALED.  
H315: CAUSES SKIN IRRITATION.  
H319: CAUSES SERIOUS EYE IRRITATION.

Precautionary statement(s)

P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. NO SMOKING.  
P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY.  
P271: USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.  
P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

Response:

P301+P312: IF SWALLOWED: CALL A POISON CENTER OR DOCTOR IF YOU FEEL UNWELL.  
P302+P352: IF ON SKIN: WASH WITH SOAP AND WATER.  
P305+P351+P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

## SAFETY DATA SHEET

## SMARTFLEX ANILOX ROLLER CLEANING GEL

DATE: 10/15/2021

**Storage:**  
P403+P235+P233: STORE IN A WELL-VENTILATED PLACE. KEEP COOL. KEEP CONTAINER TIGHTLY CLOSED.

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

**HMIS Classification**

Health Hazard: 1

Flammability: 1

Physical Hazard: 0

Personal Protection: C

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Component(s)</u>	<u>CAS Number</u>	<u>*Concentration (weight)</u>
Ethanolamine	141-43-5	5-10%
2-Butoxyethanol	111-76-2	5-10%

\* In accordance with paragraph (i) of §1910.1200, specific chemical percentage (concentration) of composition has 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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific Hazards:** N/A.

**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:** Empty containers can be hazardous; do not reuse empty containers. Open and handle containers with care. Prevent formation of aerosols.

**Storage:** Store in a cool, dry, ventilated area, away from incompatible substances. Keep containers closed when not in use. Keep from freezing. Store between 50° F and 80° F.

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

<b>COMPONENT</b>	<b>CAS No.</b>	<b>OSHA PEL/TWA</b>	<b>ACGIH TLV/TWA</b>	<b>ACGIH TLV/STEL</b>	<b>OTHER RATING</b>
Ethanolamine	141-43-5	3ppm	3ppm	6ppm	
2-Butoxyethanol	111-76-2	25ppm(skin)	20ppm(skin)		

Significant potential for dermal (skin) absorption.

**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:** Light Grey to pale Yellow paste

**Odor:** Citrus odor.

**pH:** 9 - 11

**Melting Point:** N/A

**Boiling Point:** N/A

**Flash Point:** (Tag Closed Cup Method) N/A

**Flammable Limits:**

**LEL:** N/A

**UEL:** N/A

**Vapor Pressure:** (mmHg) N/A

**Vapor Density:** (Air = 1) N/A

**Specific Gravity:** (Water = 1) N/A

**Solubility in water:** Not Miscible

**Maximum VOC Content:** 0.82 lbs/gallon (98 grams per liter)

**Maximum VOC %:** 10%

**Odor Threshold:** N/A

**Evaporation Rate:** N/A

**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

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon Dioxide, Carbon Monoxide.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** N/A.

**11. TOXICOLOGICAL INFORMATION**

Ethanolamine 141-43-5 5-10%

Acute Toxicity:

LD50 Oral - rat - 1,720 mg/kg

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

LD50 Dermal - rabbit - 1,015 mg/kg

2-Butoxyethanol 111-76-2 5-10%

Acute Toxicity:

LD50 Oral - rat - 470 mg/kg

LD50 Inhalation - rat - 4 h - 450 ppm

LD50 Dermal - rabbit - 220 mg/kg

LD50 Intraperitoneal - rat - 220 mg/kg

LD50 Intravenous - rat - 307 mg/kg

**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, 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. D.O.T. DESIGNATION</u>	<u>ID NUMBER</u>	<u>HAZARD CLASS</u>	<u>PACKING GROUP</u>
Non-Regulated.			

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 5% - 10% 2-Butoxyethanol.

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

**Date of Revision:** October 15, 2021