

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: DYNAMIC ARP-IMPROVED FORMULA
(High Technology Alcohol Substitute)

CAS Number: Mixture - Not Established

2. HAZARDS IDENTIFICATION**GHS Classification**

Acute Toxicity - Oral (Category 4)
Acute Toxicity - Dermal (Category 4)
Acute Toxicity - Inhalation (Category 4)
Skin Sensitizer (Category 1)
Skin Irritation (Category 2)
Eye Irritation (Category 2A)

GHS label elements, including hazard and precautionary statements

Pictogram(s)



Signal Word

WARNING!

Hazard statement(s)

H302: HARMFUL IF SWALLOWED.
H312: HARMFUL IN CONTACT WITH SKIN.
H332: HARMFUL IF INHALED.
H317: MAY CAUSE AN ALLERGIC SKIN REACTION.
H315: CAUSES SKIN IRRITATION.
H319: CAUSES SERIOUS EYE IRRITATION.

Precautionary statement(s)

Prevention:

P270: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
P261: AVOID BREATHING FUME/MIST/VAPOURS/SPRAY.
P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.
P264: WASH SKIN THOROUGHLY AFTER HANDLING.

Response:

P301+P312: IF SWALLOWED: CALL A DOCTOR IF YOU FEEL UNWELL
P304+P340: IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.
P302+P352: IF ON SKIN: WASH WITH PLENTY OF 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

DYNAMIC ARP-IMPROVED FORMULA

DATE: 12/11/2018

Storage:

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

Disposal:

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

HMIS Classification

Health Hazard: 2

Flammability: 1

Physical Hazard: 0

Personal Protection: B

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component(s)</u>	<u>CAS Number</u>	<u>*Concentration (weight)</u>
2-Butoxyethanol	111-76-2	75-85%
Proprietary Surfactant	XXXXXX	1-20%
Methyl-Oxirane Polymer	9003-11-6	1-10%

*In accordance with paragraph (i) of §1910.1200, specific chemical identities and 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: Combustible 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: Empty containers can be hazardous and contain explosive vapors. For industrial use only. Do not reuse containers. Use only plastic or stainless steel drum pumps or faucets with this product.

Storage: Store in a cool, dry, ventilated area, away from incompatible substances. Keep containers closed when not in use. Keep product from freezing.

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>
2-Butoxyethanol	111-76-2	25ppm(skin)	20ppm(skin)		
Proprietary Surfactant	XXXXX	N/E	N/E		10mg/m3(WHEEL)
Methyl-Oxirane Polymer	9003-11-6	N/E	N/E		

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: Water white liquid.

Odor: Mild odor.

pH: N/A

Melting point: N/A

Boiling Point: > 212° F

Flash Point: (Closed Cup Method) >209° F

Flammable Limits:

LEL: N/D

UEL: N/D

Vapor Pressure: (mmHg) N/A

Vapor Density: (Air = 1) N/A

Specific Gravity: (Water = 1) 0.93

Solubility in water: Complete

Maximum VOC Content: 6.2 Lb/Gal (744 Gm/L)

Maximum VOC %: 84%

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, however may form peroxide of unknown stability.

Incompatible Materials: Avoid strong oxidizing agents. Minimize exposure to air, potential peroxide former.

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, open flame and strong oxidizing agents.

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 - \geq 564 mg/kg

Dermal LD50:

LD50 Dermal - \geq 1,331 mg/kg

Inhalation LC50:

LC50 Inhalation - \geq 13mg/l

Other information on Acute Toxicity:

No data available

Routes of exposure: Inhalation, Ingestion, Skin, Skin Absorption.

Acute: Overexposure may lead to 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, blood, central nervous system, 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>
Not 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 blend contains approximately 83% 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: December 11, 2018