

TOWNLEY MANUFACTURING MATERIAL SAFETY DATA SHEET**SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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Product Name: Towniprene® 1190, 2280, 3380, 3385, 3395, 3475
Product Use: Polyurethane Elastomer

Revision: 2
Revision Date: 07/16/2003

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	OSHA PEL	ACGIH TLV	Other Limits
None Hazardous					

SECTION 3 – HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW ***:** A dust/particle respirator during grinding/sanding operations (see OSHA 1910.134).

PRIMARY ROUTE(S) OF ENTRY: Skin contact, Inhalation, Ingestion, Eye Contact during grinding/sanding operations.

ACUTE OVEREXPOSURE EFFECTS: NOT DETERMINED

CHRONIC OVEREXPOSURE EFFECTS: NOT DETERMINED

MEDICAL CONDITIONS WHICH MAY BE AGGREGATED BY EXPOSURE:

Eyes, skin disorders and allergic reactions, eczema, asthma, and other respiratory disorders (bronchitis, emphysema, bronchial hyperactivity) during grinding/sanding operations.

SECTION 4 – FIRST AID MEASURES

FIRST AID-EYE CONTACT: N/A

FIRST AID-SKIN CONTACT: N/A

FIRST AID-INHALATION: N/A

FIRST AID-INGESTION: N/A

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: NOT DETERMINED

LOWER EXPLOSIVE LIMIT (%): NOT DETERMINED

UPPER EXPLOSIVE LIMIT (%): NOT DETERMINED

AUTOIGNITION: NOT DETERMINED

EXTINGUISHING MEDIA: Use water fog, alcohol foam, carbon dioxide (CO₂), dry chemical extinguishing media.

FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus and turn out gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: During a fire, TDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition and combustion.

HAZARDOUS PRODUCTS OF COMBUSTION: Oxides of carbon and nitrogen, traces of HCN and volatilized isocyanates (i.e. TDI)

SECTION 6 – ACCIDENTAL RELEASE MEASURES

GENERAL: No known hazards associated with this material.

WASTE DISPOSAL: Dispose of properly. Not considered a hazardous waste. Do not discharge into waterways or sewer systems. Dispose of according to Federal (40CFR PART 261), State and Local government regulations.

SECTION 7 – HANDLING AND STORAGE

HANDLING (PERSONNEL): Wash thoroughly with soap and water after handling and particularly before eating, drinking, smoking, applying cosmetics, or using toilet facilities.

OTHER STORAGE AND HANDLING DATA: Keep out of direct sunlight. Do not store with strong inorganic oxidants such as nitric acid. Consult other sections of this MSDS for information on reactivity and flammability.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits during grinding/sanding operations. Although good mechanical ventilation is usually adequate for most industrial applications, local exhaust ventilation is preferred (see ACGIH – Industrial Ventilation). Local exhaust is required for confined spaces.

EYES: N/A

SKIN: N/A

CLOTHING: N/A

RESPIRATORY: None required with adequate ventilation. A dust/particle respirator during grinding/sanding operations (see OSHA 1910.134).

VENTILATION: Use local ventilation to control dust/particle during grinding/sanding operations.

OTHER PERSONAL PROTECTION DATA: N/A

HYGIENIC PRACTICES: Wash hands before eating, smoking, applying cosmetics, or using toilet facility.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/D

APPEARANCE: Solid Polyurethane Elastomer

MELTING POINT: N/D

SOLUBILITY IN WATER: N/D

FREEZING POINT: N/D

COLOR: 1190-Yellow, 2280, 3380-Red, 3395-Amber, 3475 Milky White

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE: N/D

SPECIFIC GRAVITY: N/D

pH: N/D

VAPOR PRESSURE: N/D

VOLATILITY: 0%

SECTION 10 – STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid exposure to temperature >150°C (300°F)

INCOMPATIBILITY: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen, traces of hydrogen cyanide, volatilized isocyanates (e.g. TDI) and other unidentified organic combustion products.

STABILITY: Product is stable under normal storage conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

CORROSIVE PROPERTIES: Not corrosive

OXIDIZER PROPERTIES: Not an oxidizer

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE ORAL EFFECTS: LD50 (rat): No data available

ACUTE DERMAL EFFECTS: LD50 (rabbit): No data available

ACUTE INHALATION EFFECTS: LC50 (rat): No data available

Exposure: 4 hours.

EYE IRRITATION: N/D

SUBCHRONIC EFFECTS: N/D

CARCINOGENICITY, TERATOGENICITY, AND MUTAGENICITY: Under normal use conditions not considered a carcinogen.

OTHER CHRONIC EFFECTS: No data available

TOXICOLOGICAL INFORMATION ON HAZARDOUS CHEMICAL CONSTITUANTS: No data available

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicological Information

ECOTOXICITY: No data available

MOBILITY AND PERSISTENCE: No data available

ENVIRONMENTAL FATE: No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

DISPOSAL METHOD: Considered a non-hazardous waste. Disposal should be done in accordance with state and local environmental control regulations. Do not cut, weld, braze, solder, or expose to flame, spark, or other sources of ignition. Gases may be toxic.

SECTION 14 – TRANSPORTATION INFORMATION

SHIPPING INFORMATION

DOT PROPER SHIPPING NAME: N/A

DOT HAZARD CLASS: N/A

DOT UN/NA NUMBER: N/A

PACKAGING GROUP: N/A

EMERGENCY RESPONSE GUIDE NUMBER: N/A

IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER: Non-Regulated

ICAO / IATA (AIR)

HAZARD CLASS DIVISION NUMBER: Non-Regulated

SECTION 15 – REGULATORY INFORMATION

US FEDERAL REGULATIONS

Non-Regulated Material

CANADIAN WHIMS CLASSIFICATION: Not WHMIS Controlled

SECTION 16 – OTHER INFORMATION

Hazard Ratings:

	Health:	Fire:	Reactivity:	Special:
HMIS	0	0	0	N/A
NFPA	0	0	0	N/A

Personal Protection rating to be supplied by user depending on use conditions.

LEGEND: N/A – Not Applicable, N.E. – Not Established, N. D. – Not Determined

ABBREVIATIONS:

ACGIH = American Conference of Governmental Industrial Hygienists
OSHA = Occupational Safety and Health Administration
TLV = Threshold Limit Value
PEL = Permissible Exposure Limit
TWA = Time Weighted Average
STEL = Short-Term Exposure Limit
BAc = Butyl Acetate

DISCLAIMER

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all federal, state and local laws and regulations.

END OF MSDS