

Section 1: Identification
Product Identifiers

Product name **ARON MIGHTY PU-171**
 Product Number **None**

Recommended use of & restrictions on use
 Hardener for ARON MIGHTY SNE-5880
 For industrial use only

Emergency telephone number
CHEMTREC (800) 424-9300

Manufacturer's Information

Manufacturer's Name

Toagosei America Inc.
 1450 West Main Street
 West Jefferson, OH 43162

Telephone: (614) 879-9411

Section 2 – Hazard Identification

Classification of the substance or mixture

Classification according to 1910.1200:

Flammable Liquids	Category 2
Acute Toxicity (Inhalation, Dust and Mists)	Category 4
Serious Eye Damage/ Eye Irritation	Category 2A
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Specific Toxic Organ Toxicity-Single Exposure (STOT-SE)	Category 3, Central Nervous System

Label Elements



Pictograms

Flame

Health Hazard

Exclamation mark

Signal word

Danger

Hazard statements

Highly flammable liquid and vapor.
 Harmful if inhaled.
 Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause allergic skin reaction.
May cause drowsiness or dizziness.

Precautionary statements

Prevention

Keep away from flames and hot surfaces. – No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/eye protection/face protection.
Avoid breathing mist/vapors.
Use only outdoors or in a well-ventilated area.
[In case of inadequate ventilation] wear respiratory protection.
Wash hands with plenty of water thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

Response

In case of fire: Use dry chemical or carbon dioxide (CO₂) to extinguish.
IF ON SKIN (or Hair): Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

Storage

Store in a cool, well-ventilated place and keep container tightly closed.
Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards Not Otherwise Classified

No data available.

Section 3 – Composition/Information on Ingredients

Chemical Name	Common Name/Synonyms	CAS Number	Concentration %
Aromatic Polyisocyanate		N/A	<75
Ethyl Acetate		141-78-6	25
2,4-Toluene Diisocyanate		584-84-9	<0.7
2,5-Toluene Diisocyanate		91-08-7	<0.2

*Nonhazardous ingredients are not listed and make up the balance of the product.

Section 4 – First-Aid Measures

Description of first aid measures

Ingestion: If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact the poison control center or hospital emergency room for any other additional treatment directions.

Inhalation: If symptoms develop, move individual to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Call a physician.

Skin: Remove contaminated clothing. Flush exposed area with large amounts of water. Call a physician if irritation persists.

Eyes: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Most important symptoms/effects, acute and delayed

The most important symptoms or effects are described in Section 2 and 11.

Indication of immediate medical attention & special treatment needed. - No data available.

Section 5 – Fire-Fighting Measures

Extinguishing media

Suitable – Use dry chemical or carbon dioxide (CO₂) to extinguish fire.

Unsuitable – N/A.

Special hazards arising from the chemical – Carbon oxides. Nitrogen oxides.

Special protective equipment and precautions for fire-fighters – Self-contained breathing apparatus with face piece and protective clothing if involved in a fire of other materials.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personal. Avoid breathing vapors, mist or gas. Ventilate area. Eliminate all sources of ignition.

Environmental Precautions

Prevent entry into drains, natural bodies of water and the environment.

Methods and materials for containment and clean up

Containment – Material may be taken up with a non-combustible absorbent material (sand or clay).

Clean-up – Eliminate all sources of ignition. Place in container for disposal according to local/national regulations (see section 13).

Section 7 – Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing. Wash thoroughly after handling. Avoid inhalation of vapor or mist.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

Incompatibilities

Keep away from heat, sparks, flame and other ignition sources.

Section 8 – Exposure Controls/Personal Protection

Exposure guidelines

Component	OSHA	ACGIH		Units
	TWA	TWA	STEL	
Aromatic Polyisocyanate	N.E.	N.E.	N.E.	-
Ethyl Acetate	400	400	N.E.	ppm
Toluene Diisocyanate *	0.02	0.005	0.02	ppm

N.E. = Not Established.

* There are no established exposure guidelines for mixed isomers of TDI. However, Toagosei recommends the established 2,4-TDI guideline limit for the mixed isomer.

Engineering controls

The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices.

These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate.

Personal protective equipment

Eye/face protection – Wear safety goggles.

Skin protection – Wear impervious gloves as required to prevent skin contact.

Respiratory protection – Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection.

Section 9 – Physical and Chemical Properties

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|--|--|
| a) Appearance: Yellowish Liquid | k) Vapor pressure: 86 (mmHg @ 20°C), 11466 (Pa @ 20°C) |
| b) Odor: Solvent-like | l) Vapor density: 3.0 (AIR=1) |
| c) Odor threshold: No data available | m) Relative density: 1.17
(Water = 1 @ 25°C) |
| d) pH: No data available | n) Solubility in water: React with water to liberate CO ₂ gas. |
| e) Melting point/freezing point: No data available | o) Partition coefficient: No data available |
| f) Initial boiling point and boiling range: 77°C/171°F | p) Auto-ignition temperature: No data available |
| g) Flash point: 7.2°C/45°F | q) Decomposition temperature: No data available |
| h) Evaporation rate – No data available | r) Viscosity: No data available @ 25°C |
| i) Flammability: No data available | s) VOC content: No data available (SCAQMD Method 316B) |
| j) Upper/lower flammability or explosive limits:
Lower explosion limit; 2.2
Upper explosion limit; 11 | |

Section 10 – Stability and Reactivity

Reactivity – No data available

Chemical stability – Stable under recommended storage conditions

Possibility of hazardous reactions – No data available

Conditions to avoid – Avoid contact with water, alcohols, amines, strong bases, metal compounds, or surface active materials. Trimethylol propane is used in the manufacturing of resin; therefore, it should not be combined with phosphorus containing materials because highly toxic fumes may be emitted in a fire situation.

Incompatible materials – Water, alcohols, amines, strong bases, metal compounds or surface-active materials.

Hazardous decomposition products – Carbon dioxide and carbon monoxide, nitrogen oxides, HCN, TDI vapors, and mist.

Section 11 – Toxicological Information

Information on likely routes of exposure

Inhalation – May cause drowsiness or dizziness.

Ingestion - May be harmful if swallowed.

Skin – May cause an allergic skin reaction.

Eye – Causes serious eye irritation.

Symptoms related to physical, chemical and toxicological characteristics

No known.

Delayed and immediate effects & also chronic effects from short- & long-term exposure

No data available.

Numerical measures of toxicity

No data available.

Carcinogenicity

NTP – No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC – No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

OSHA – No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH – No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Section 12 – Ecological Information

Ecotoxicity – No data available.

Persistence and degradability – No data available.

Bioaccumulative potential – No data available.

Mobility in soil – No data available.

Other adverse effects – No data available.

Section 13 – Disposal Considerations

Disposal should be in accordance with applicable local, regional and national laws and regulations. Local regulations may be more stringent than regional or national requirements. May contain explosive vapors. DO NOT cut, puncture or weld on or nearby.

Contaminated packaging – Dispose of as unused product.

Section 14 – Transport Information

UN number – UN 1866

UN proper shipping name – Resin Solution

Transport hazard class(es) – Class 3

Packing Group – II

Environmental hazards – No data available

Transport in bulk – No data available

Special precautions – No data available

Section 15 – Regulatory Information

US Federal Regulations

SARA Title III: Section 311/312

Fire hazard
Acute Health Hazard

SARA Title III: Section 313 & 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

None required per SARA Title III Section 313

TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

Canadian Regulations

Workplace Hazard Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the SDS contains all the information required by the CPR.

Class B, DIV 3
Class D, DIV 2B

Canadian Environmental Protection Act (CEPA)

All reportable chemical substances are listed on the Domestic Substance List (DSL) or otherwise comply with CEPA new substance notification requirements.

National Pollutant Release Inventory

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16 (1), National Pollutant Release Inventory.

None

State and Local Regulations

California Prop. 65

WARNING: This product can expose you to chemicals including toluene diisocyanate, which is known to the State of California to cause cancer. For more information go to: www.P65Warnings.ca.gov/

Ingredient	CAS Number
2,4-Toluene Diisocyanate	584-84-9
2,5- Toluene Diisocyanate	91-08-7

Section 16 – Other Information

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To the best of our knowledge, the information contained herein is accurate. However, neither Toagosei America Ltd. nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.