

# SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2012 / Canada WHMIS 2015

Date Prepared : 08/13/2015

## Universal Quick Adhesive 1458 Part A

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** : Universal Quick Adhesive      **Product Number:** 1458 Part A  
**Product Description** : Part A Black adhesive / sealant (Kit: 207 ml / 7.0 fl oz US)  
**General Use** : Urethane adhesive / sealant. For Professional and Industrial Use Only.  
Not for sale to the general public.

**Chemical Family** : Aromatic Isocyanate / Isocyanates aromatiques

#### Manufacturer / Supplier

Transtar Autobody Technologies  
2040 Heiserman Drive  
Brighton, MI 48114  
Phone: (810) 824-2843  
**E-Mail:** www.tat-co.com

#### Emergency Telephone Numbers (24 hour)

CHEMTREC (US & Canada): 800-424-9300  
CHEMTREC INTERNATIONAL: 001-703-527-3887

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Target Organ Toxicity (Repeated exposure), Category 2  
Target Organ Toxicity (Single exposure), Category 3  
Eye Irritation, Category 2  
Skin Irritation, Category 2  
Respiratory Sensitization, Category 1  
Skin Sensitization, Category 1  
Carcinogenicity, Category 2

#### GHS LABEL

Hazardous components for labelling:



Health  
hazard



Exclamation  
mark

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H373: May cause damage to organs (respiratory system) through prolonged or repeated exposure.  
H335: May cause respiratory irritation.  
H319: Causes serious eye irritation.  
H315: Causes skin irritation.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.  
H351: Suspected of causing cancer by inhalation.

### PRECAUTIONARY STATEMENT(S)

#### Prevention:

P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P264: Wash hands thoroughly after handling.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P260: Do not breathe mist, vapours or spray.  
P271: Use only outdoors or in a well-ventilated area.  
P284: Wear respiratory protection.  
P280: Wear protective gloves and eye protection.

#### Response:

P308+P313: IF exposed or concerned: Get medical advice/ attention.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P362: Take off contaminated clothing and wash before reuse.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

#### Storage:

P233: Keep container tightly closed.  
P403+P235: Store in a well-ventilated place. Keep cool.  
P405: Store locked up.

#### Disposal:

P501: Dispose of contents/container in accordance with local, regional, national and/or international regulations.

### Emergency Overview

#### Immediate Concerns:

Extremely flammable liquid and vapor. Fumes and spray mist may be harmful. May irritate the eyes, skin and respiratory system. May cause sensitization by inhalation and skin contact. Vapours may cause drowsiness and dizziness.

#### Hazards Not Otherwise Classified:

No data available.

#### Comments:

< 5 % of the mixture consists of an ingredient or ingredients of unknown acute toxicity.  
See sections 9 and 10 for more detailed information on physicochemical effects.  
See section 11 for more detailed information on health effects.  
See sections 12 for more detailed information on environmental effects.

## Universal Quick Adhesive 1458 Part A

Chemical Name	Wt. %	CAS No.
4,4'-Diphenylmethane diisocyanate	40 - 50	101-68-8
Polymeric diphenylmethane diisocyanate	35 - 45	9016-87-9
Diphenylmethane diisocyanate, mixed isomers	1 - 20	26447-40-5

**Comments:** There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the product and hence require reporting in this section.

### 4. FIRST AID MEASURES

#### Eye Contact:

In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Get medical attention, if irritation persists.

#### Skin Contact:

Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing and wash before reuse.

#### Ingestion:

Do not induce vomiting. Rinse mouth with water. Give 1 to 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

#### Inhalation:

If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain medical attention if breathing difficulty persists.

### Signs and Symptoms of Overexposure

#### Eye Contact:

Product liquid, aerosols or vapours are irritating. Can cause tearing, reddening and swelling. May cause temporary corneal injury.

#### Skin Contact:

Contact causes skin irritation. Cured material is difficult to remove. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove.

#### Ingestion:

Substance may be harmful if swallowed. May cause irritation. Symptoms of ingestion may include abdominal pain, nausea, vomiting and diarrhea.

#### Inhalation:

High vapor concentrations may be harmful if inhaled. Vapour/mists at concentrations above the exposure limits can irritate (burning sensation) the mucous membranes in the respiratory tract. This can cause a runny nose, sore throat, coughing, chest discomfort, difficult breathing and reduced pulmonary functioning. Persons with pre-existing, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms as well as asthma attack. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema. Chemical or hypersensitive pneumonitis, with flu-like symptoms has also been reported. These symptoms can be delayed up to several hours after exposure. Effects are usually reversible.

### Notes to Physician:

Respiratory: This compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate. Skin: This compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns.

### Additional Information:

Not Available.

## **5. FIRE FIGHTING MEASURES**

### **Flammable Properties:**

Will burn if involved in a fire.

### **Extinguishing Media:**

Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Use an extinguishing agent suitable for the surrounding fire.

### **Hazardous Combustion Products:**

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Carbon dioxide, carbon monoxide. Nitrous gases, fumes/smoke, isocyanate, vapour.

### **Fire Fighting Procedures:**

Containers can build up pressure if exposed to heat (fire).

### **Fire Fighting Equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

### **Sensitivity to Static Discharge:**

Product is not sensitive to static discharge.

### **Sensitivity to Mechanical Impact:**

Product is not sensitive to mechanical impact.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Small Spill:**

Eliminate all ignition sources. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Saturate absorbent material with neutralizing solution. Add an additional layer of absorbent material. Use shovel to move absorbent material around to ensure that all spilled material comes in contact with the neutralizing solution. Shovel all absorbed material into an appropriate salvage drum. Allow to stand (covered loosely) for 48 to 72 hours, to allow any gases to escape. Decontaminate spill area with neutralizing solution. Area can then be washed with soap and water. Recommended portion is ten parts neutralizing solution to one part spilled material. Suggested neutralization solution: 90% water + 5% concentrated ammonia + 5% detergent (dish soap).

### **Environmental Precautions**

#### **Water Spill:**

Do not discharge into drains/surface waters/groundwater.

#### **Land Spill:**

Avoid runoff into storm sewers and ditches which lead to waterways.

### **Special Protective Equipment:**

Clean up spills immediately, observing precautions in Protective Equipment section 8.

## **7. HANDLING AND STORAGE**

### **General Procedures:**

Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids. Ensure thorough ventilation of stores and work areas. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapour or spray mist. Warning properties (irritation of the eyes, nose and throat or odour) are not adequate to prevent chronic overexposure from inhalation. Handle in accordance with good industrial hygiene and safety practices.

### **Handling:**

Use only in a well ventilated area. Wear recommended personal protective equipment. Keep container closed when not in use. Avoid breathing vapours or mist. Avoid contact with eyes, skin, and clothing. After handling, always wash hands thoroughly with soap and water.

**Storage:**

Store away from heat, sparks, open flames, strong oxidizing agents and direct sunlight. Protect from physical damage. Protect against moisture. Keep container tightly closed and in a well-ventilated place. Store in a cool dry place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		Occupational Exposure Limits					
		OSHA PEL		ACGIH TLV		NIOSH REL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
4,4'-Diphenylmethane diisocyanate	TWA			0.005	0.051	0.005	0.05
	STEL	0.02	0.2			0.02	0.2
Polymeric diphenylmethane diisocyanate	TWA					[1]	0.05 [1]
	STEL					[1]	0.05 [1]

**Footnotes:**  
1. Germany(AGS)

**Engineering Controls:**

Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

**Personal Protective Equipment**

**Eyes and Face:**

Wear safety glasses with side shields (or goggles). Contact lenses should not be worn when working with this product. Eye wash fountains should be readily available to areas of use and handling.

**Skin Contact:**

Chemical resistant gloves: butyl rubber, nitrile rubber, neoprene, PVC.

**Respiratory:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Be sure to use MSHA/NIOSH approved respirator or equipment. Do not exceed the use limits of the respirator.

Respiratory equipment required during spraying:

The use of a positive pressure air supplied respirator is mandatory when airborne concentrations are not known or airborne solvent levels are 10 times the appropriate TLV or spraying is performed in a confined space or area with limited ventilation. Be sure to use MSHA/NIOSH approved respirator or equipment.

**Protective Clothing:**

Wear protective clothing as necessary to prevent contact. Wear long sleeves and trousers to prevent dermal exposure.

**Work Hygienic Practices:**

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Eye wash fountains and safety showers must be easily assessible. Do not breathe vapour/spray. Exposure levels must be monitored by accepted monitoring techniques to ensure that the TLV is not exceeded. Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrant skin eczema or sensitization should be excluded from working

## Universal Quick Adhesive 1458 Part A

with isocyanates. Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted. Employee education and training are important.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	: Liquid
<b>Odor</b>	: Musty
<b>Odor Threshold</b>	: Not Available
<b>Appearance</b>	: Mobile liquid
<b>Color</b>	: Black
<b>pH</b>	: No data available.
<b>% Volatiles</b>	: < 1 % w/w
<b>Flash Point and Method</b>	: > 200 °C Closed Cup
<b>Flammable Limits</b>	: No data available.
<b>Autoignition Temperature</b>	: > 400°C (750°F)
<b>Notes:</b>	
<b>Vapor Pressure</b>	: < 10 <sup>-5</sup> mm Hg at 20°C
<b>Vapor Density</b>	: > 1
<b>Boiling Point</b>	: No data available.
<b>Freezing Point</b>	: No data available.
<b>Melting Point</b>	: No data available.
<b>Solubility in Water</b>	: Practically insoluble
<b>Evaporation Rate (n-butyl acetate = 1)</b>	: > 1
<b>Density</b>	: 1.23 +/- 0.02 g/ml at 20°C
<b>Viscosity</b>	: > 200 cps at 20°C
<b>VOC Content</b>	: < 10 g/l
<b>Partition Coefficient (n-octanol/water)</b>	: Not Available
<b>Oxidizing Properties</b>	: None

### 10. STABILITY AND REACTIVITY

**Reactive Hazard** : Yes

**Hazardous Polymerization:**

Contact with moisture or other materials that react with isocyanates, or temperatures above 177 C, may cause polymerization.

**Stability:**

Stable under normal conditions of use and storage.

**Conditions to Avoid:**

Avoid moisture.

**Possibility of Hazardous Reactions:**

Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols, acids, alkalies and amines. Risk of exothermic reaction. Risk of violent reaction. Risk of polymerization.

**Hazardous Decomposition Products:**

By fire and high heat: Carbon monoxide, Carbon dioxide, Oxides of nitrogen, Hydrogen cyanide, Isocyanates, Isocyanic acid, other undetermined compounds.

**Incompatible Materials:**

Water, amines, strong bases, alcohols. Copper alloys.

**11. TOXICOLOGICAL INFORMATION****Product Acute Toxicity**

Chemical Name	ORAL LD <sub>50</sub> mg/kg (rat)	DERMAL LD <sub>50</sub> mg/kg (rabbit)	INHALATION LC <sub>50</sub> mg/l
4,4'-Diphenylmethane diisocyanate	> 10,000	> 10,000	0.369(rat;4h - mist)
Polymeric diphenylmethane diisocyanate	49,000	> 9400	0.49(rat;4h - mist)

**Acute Toxicity - Dermal LD<sub>50</sub>:** The calculated ATE is >2000 mg/kg.

**Notes:**

Based on available data, the classification criteria for Acute Dermal Toxicity are not met for this mixture.

**Acute Toxicity - Oral LD<sub>50</sub>:** The calculated ATE is >2000 mg/kg.

**Notes:**

Based on available data, the classification criteria for Acute Oral Toxicity are not met for this mixture.

**Acute Toxicity - Inhalation LC<sub>50</sub>:**

The calculated ATE is >1 and less than or ≤ 5 mg/l/4h (mists). The calculated ATE is >20 mg/l/4h (vapours).

**Notes:**

Based on available data, the classification criteria for Acute Toxicity - inhalation are not met for this mixture. At room temperature, exposure to vapor is minimal due to low volatility. This product is not sprayed during application; no spray mist can be generated so this route of exposure does not apply.

**Toxicological Data:**

< 5% of the mixture consists of an ingredient or ingredients of unknown acute toxicity.

No additional toxicology information is available for this product itself. (See Component Toxicity Information).

**Primary Routes of Entry:**

Eye contact. Inhalation. Skin contact. Ingestion.

**Eye Irritation / Serious Eye Damage:**

Contains: 4,4'-Diphenylmethane diisocyanate. Contact causes serious eye irritation. The mixture is classified as: Eye Irritant, category 2, based on summation of ingredient data (>10% ingredients classified as eye irritant, category 2). Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

**Skin Irritation / Corrosion:**

Contains: 4,4'-Diphenylmethane diisocyanate. Causes skin irritation. The mixture is classified as: Skin Irritant, category 2, based on summation of ingredient data (>10% ingredients classified as skin irritant, category 2). Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash.

**Carcinogenicity**

**Notes:**

The mixture is classified as: Carcinogenicity, category 2 based on ingredient data using the applicable cut-off/concentration limits ( $\geq 0.1\%$  ingredients classified as a Carcinogen, category 2).

**Specific Target Organ Toxicity - Repeated Exposure:**

Contains: 4,4'-Diphenylmethane diisocyanate. The mixture is classified as: Specific Target Organ Toxicity - Repeated Exposure, category 2, based on ingredient data using the applicable cut-off/concentration limits ( $\geq 1.0\%$  ingredients classified as Specific Target Organ Toxicity - Repeated Exposure, category 2). Prolonged inhalation may be harmful. Prolonged or repeated exposure may cause lung damage, including a decrease in lung function. Possible risk of irreversible effects.

**Respiratory / Skin Sensitizer:**

Contains: 4,4'-Diphenylmethane diisocyanate. The mixture is classified as: Skin Sensitizer, category 1 based on ingredient data ( $\geq 0.1\%$  ingredients classified as a skin sensitizer, category 1 or sub-category 1A or  $\geq 1.0\%$  ingredients classified as a skin sensitizer, sub-category 1B). The mixture is classified as: Respiratory Sensitizer, category 1 based on ingredient data ( $\geq 0.1\%$  ingredients classified as a respiratory sensitizer, category 1 or sub-category 1A or  $\geq 1.0\%$  ingredients classified as a respiratory sensitizer, sub-category 1B).

May cause sensitization by inhalation and skin contact. As a result of previous repeated overexposure or a single large dose, certain individuals develop sensitization which will cause them to react to a later exposure to product at levels well below the TLV. Symptoms including chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed. There are reports that once sensitized, an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Sensitization can be permanent. Prolonged contact with this product can cause reddening, swelling, rash scaling or blistering. In those who have developed skin sensitization, these symptoms can develop as a result of contact with very small amount of the liquid material.

**Reproductive Toxicity:**

Based on available data, the classification criteria for Reproductive Toxicity are not met for this mixture ( $< 0.1\%$  ingredients classified as Reproductive Toxicity, category 1 or 2).

**Specific Target Organ Toxicity - Single Exposure:**

Contains: 4,4'-Diphenylmethane diisocyanate. The mixture is classified as: Specific Target Organ Toxicity - Single Exposure, category 3, based on summation of ingredient data using the applicable cut-off/concentration limits ( $\geq 20\%$  summation of all ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 3). Prolonged or excessive inhalation may cause respiratory tract irritation. Vapour/mists at concentrations above the exposure limits can irritate (burning sensation) the mucous membranes in the respiratory tract. This can cause a runny nose, sore throat, coughing, chest discomfort, difficult breathing and reduced pulmonary functioning. Persons with pre-existing, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms as well as asthma attack.

**Germ Cell Mutagenicity:**

Based on available data, the classification criteria for Germ Cell Mutagenicity are not met for this mixture ( $< 0.1\%$  ingredients classified as Germ Cell Mutagen, category 1A or 1B and  $< 1.0\%$  ingredients classified as Germ Cell Mutagen, category 2).

**Aspiration Hazard:**

Based on available data, the classification criteria for Aspiration Hazard are not met for this mixture ( $< 10\%$  ingredients classified as an Aspiration Hazard, category 1 and/or mixture viscosity  $> 20.5 \text{ mm}^2/\text{s}$  at  $40 \text{ }^\circ\text{C}$ ).

## 12. ECOLOGICAL INFORMATION

**Environmental Data:**

No data available.

**Ecotoxicological Information:**

No data available.

**Bioaccumulation/Accumulation:**

No data available.

**Distribution:**



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No data available.

### **Aquatic Toxicity (Acute):**

No data available.

### **Chemical Fate Information:**

No data available.

## 13. DISPOSAL CONSIDERATIONS

### **Disposal Method:**

Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal. Do not discharge substance/product into sewer system.

### **Product Disposal:**

Empty containers retain product residue; observe all precautions for product. Decontaminate containers prior to disposal.

## 14. TRANSPORT INFORMATION

### **DOT (Department of Transportation)**

**Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.( 4,4'-Diphenylmethane diisocyanate)

**Primary Hazard Class/Division:** 9

**UN/NA Number** : 3082

**Packing Group** : III

### **Other Shipping Information:**

These Regulations do not apply to the handling, offering for transport or transporting of less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle.

### **Air (ICAO/IATA)**

**Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.( 4,4'-Diphenylmethane diisocyanate)

**UN/NA Number** : 3082

**Primary Hazard Class/Division:** 9

**Packing Group** : III

### **Vessel (IMO/IMDG)**

**Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.( 4,4'-Diphenylmethane diisocyanate)

**UN/NA Number** : 3082

**Primary Hazard Class/Division:** 9

**Packing Group** : III

**Marine Pollutant** : None

**Note:** With an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

### **Canadian Transportation of Dangerous Goods Regulations**

**Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.( 4,4'-Diphenylmethane diisocyanate)

## Universal Quick Adhesive 1458 Part A

**UN/NA Number** : 3082

**Primary Hazard Class/Division:** 9

**Packing Group** : III

**TDG Note:**

These Regulations do not apply to the handling, offering for transport or transporting of less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle.

### 15. REGULATORY INFORMATION

#### UNITED STATES

##### SARA Section 311/312 Hazard Categories

**Fire Hazard** : No  
**Sudden Release of Pressure** : No  
**Reactive Hazard** : No  
**Product Acute Toxicity** : Yes  
**Product Chronic Toxicity** : Yes

##### EPCRA Section 313 Toxic Chemicals

Chemical Name	Wt. %	CAS No.
4,4'-Diphenylmethane diisocyanate	40 - 50	101-68-8
Polymeric diphenylmethane diisocyanate	35 - 45	9016-87-9

##### EPCRA Section 302 Extremely Hazardous Substances

**EPCRA Status:**

This product contains no listed extremely hazardous substances that are subject to the reporting requirements of SARA Title III, Section 302.

##### CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical Name	Wt. %	RQ
4,4'-Diphenylmethane diisocyanate	40 - 50	5,000

##### TSCA (The Toxic Substances Control Act)

**TSCA Status:**

All components are included or are otherwise exempt from inclusion on this inventory.

##### CAA 112(b) - Hazardous Air Pollutants

##### CAA 112(r) - List of Substances for Accidental Release Prevention:

This product contains no chemicals subject to CAA 112(b) or CAA 112(r).

##### California Proposition 65:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

##### OSHA Hazard Communication Standard (29 CFR 1910.1200):

OSHA Status: Hazardous Product (See Section 2 for details).

This product has been classified in accordance with the hazard criteria of the USA OSHA Hazard Communication Standard (29CFR 1910.1200) and the Safety Data Sheet contains all the information required by the OSHA Hazard Communication Standard (HazCom 2012).

#### CANADA

**WHMIS Hazard Symbol and Classification**

See Section 2 for details.

**WHMIS Regulatory Status:**

This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

**WHMIS Classification:**

WHMIS 2015 (Canada) Status: Hazardous Product (See Section 2 for details).

**WHMIS Ingredient Disclosure List:**

Ingredients present which are on the WHMIS Ingredient Disclosure List at, or above the minimum concentration specified on the list, are disclosed in Section 3.

**CEPA - National Pollutant Release Inventory (NPRI):**

This product contains no chemicals subject to CEPA - NPRI.

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):**

All components are included or are otherwise exempt from inclusion on this inventory.

**Comments**

VOC Content -- See section 9.

**16. OTHER INFORMATION**

**Reason for Issue:** NEW

**Prepared By :** Regulatory Compliance

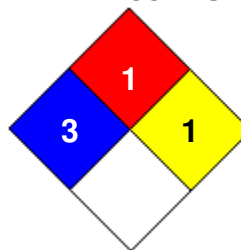
**Date Prepared:** 08/13/2015

**Information Contact:** (800) 824-2843

**HMIS RATING**

<b>HEALTH</b>	*	<b>3</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>1</b>
<b>PERSONAL PROTECTION</b>		<b>G</b>

**NFPA CODES**



**Manufacturer Supplemental Notes:** The health ratings apply to spray application (spray mist).

**Data Sources:**

Not Available

**Additional MSDS Information:**

- N/AV Not Available
- N/AP Not Applicable
- ND Not yet determined
- CAA The Clean Air Act
- CCCR The Consumer Chemicals and Containers Regulations
- CEPA The Canadian Environmental Protection Act
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
- EPCRA The Emergency Planning and Community Right-To-Know Act
- IARC International Agency for Research on Cancer
- MSHA Mine Safety and Health Administration
- NIOSH National Institute for Occupational Safety and Health
- NTP National Toxicology Program
- OSHA The Occupational Safety and Health Act

## **Universal Quick Adhesive 1458 Part A**

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SARA The Superfund Amendments and Reauthorization Act  
WHMIS Workplace Hazardous Materials Information System

### **General Statements:**

None

### **Comments:**

None

### **Manufacturer Disclaimer:**

The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. No responsibility is assumed for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of this material.

# SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2012 / Canada WHMIS 2015

Date Prepared : 08/13/2015

## Universal Quick Adhesive 1458 Part B

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** : Universal Quick Adhesive 1458 Part B **Product Number** : 1458 Part B  
**Product Description**: Part B Black adhesive / sealant, (Kit: 207 ml / 7.0 fl oz US)  
**General Use** : Urethane adhesive / sealant. For Professional and Industrial Use Only.  
Not for sale to the general public.  
**Chemical Family** : Polyether Polyol / Polyols de polyéther

#### Manufacturer / Supplier

Transtar Autobody Technologies  
2040 Heiserman Drive  
Brighton, MI 48114  
Phone: (810) 220-3000  
**E-Mail**: www.tat-co.com

#### Emergency Telephone Numbers (24 hour)

CHEMTREC (US & Canada): 800-424-9300  
CHEMTREC INTERNATIONAL: 001-703-527-3887

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Target Organ Toxicity (Repeated exposure), Category 2  
Eye Irritation, Category 2A  
Skin Sensitization, Category 1

#### GHS LABEL

Hazardous components for labelling:



Exclamation  
mark



Health  
hazard

**SIGNAL WORD:** WARNING

#### HAZARD STATEMENTS

H373: May cause damage to organs through prolonged or repeated exposure.  
H319: Causes serious eye irritation.  
H317: May cause an allergic skin reaction.

#### PRECAUTIONARY STATEMENT(S)

##### Prevention:

P264: Wash hands thoroughly after handling.  
P260: Do not breathe vapours.

## Universal Quick Adhesive 1458 Part B

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves and eye protection.

### Response:

P314: Get medical advice/attention if you feel unwell.

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

### Disposal:

P501: Dispose of contents/container in accordance with local, regional, national and/or international regulations.

### Emergency Overview

#### Immediate Concerns:

Causes serious eye irritation. May cause sensitization by skin contact. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Prolonged or repeated exposure may cause liver damage.

#### Hazards Not Otherwise Classified:

No data available.

#### Comments:

< 10 % of the mixture consists of an ingredient or ingredients of unknown acute toxicity.

See sections 9 and 10 for more detailed information on physicochemical effects.

See section 11 for more detailed information on health effects.

See sections 12 for more detailed information on environmental effects.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS No.
Diethyltoluenediamine	8 - 12	68479-98-1
Dimethylthiotoluenediamine	1 - 5	106264-79-3

**Comments:** There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the product and hence require reporting in this section.

## 4. FIRST AID MEASURES

#### Eye Contact:

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention, if irritation persists.

#### Skin Contact:

Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing and wash before reuse.

#### Ingestion:

Do not induce vomiting. Rinse mouth with water. Give 1 to 2 glasses of water to drink. Never give anything by

mouth to an unconscious person. Get medical attention.

### **Inhalation:**

Not expected to present a significant inhalation hazard under anticipated conditions of normal use. If you experience eye watering, headaches or dizziness, increase fresh air or leave the area.

### **Signs and Symptoms of Overexposure**

#### **Eye Contact:**

Contact causes serious eye irritation. Symptoms may include pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

#### **Skin Contact:**

Substance does not generally irritate and is only mildly irritating to the skin. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

#### **Ingestion:**

Substance may be harmful if swallowed. May cause irritation. Symptoms of ingestion may include abdominal pain, nausea, vomiting and diarrhea.

#### **Inhalation:**

At room temperature, exposure to vapor is minimal due to low volatility.

### **Additional Information:**

No data available.

## 5. FIRE FIGHTING MEASURES

### **Flammable Properties:**

Will burn if involved in a fire.

### **Extinguishing Media:**

Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Use an extinguishing agent suitable for the surrounding fire.

### **Hazardous Combustion Products:**

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

### **Fire Fighting Procedures:**

Containers can build up pressure if exposed to heat (fire).

### **Fire Fighting Equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

### **Sensitivity to Static Discharge:**

Product is not sensitive to static discharge.

### **Sensitivity to Mechanical Impact:**

Product is not sensitive to mechanical impact.

## 6. ACCIDENTAL RELEASE MEASURES

### **Small Spill:**

Ensure adequate ventilation. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly. Avoid contact with eyes, skin, and clothing.

### **Environmental Precautions**

#### **Water Spill:**

Do not flush to sewer.

#### **Land Spill:**

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Avoid runoff into storm sewers and ditches which lead to waterways.

### Special Protective Equipment:

Clean up spills immediately, observing precautions in Protective Equipment section 8.

## 7. HANDLING AND STORAGE

### General Procedures:

Ensure thorough ventilation of stores and work areas.

### Handling:

Do not use in the presence of open flame or spark. Wear recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. After handling, always wash hands thoroughly with soap and water.

### Storage:

Store away from heat, sparks, open flames, strong oxidizing agents and direct sunlight. Protect from physical damage. Keep containers tightly closed, when not in use. Store in a cool place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		Occupational Exposure Limits					
		OSHA PEL		ACGIH TLV		NIOSH REL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Diethyltoluenediamine	<b>TWA</b>	NL [1]	NL [1]	NL [1]	NL [1]	NL [1]	NL [1]
Dimethylthiotoluenediamine	<b>TWA</b>	NL [1]	NL [1]	NL [1]	NL [1]	NL [1]	NL [1]

**Footnotes:**  
1. NL: This material does not have established exposure limits.

### Engineering Controls:

Good general ventilation should be sufficient to control airborne levels.

### Personal Protective Equipment

#### Eyes and Face:

Wear safety glasses with side shields (or goggles). Contact lenses should not be worn when working with this product. Eye wash fountains should be readily available to areas of use and handling.

#### Skin Contact:

Wear chemical resistant gloves.

#### Respiratory:

Generally not required. Wear respiratory protection if ventilation is inadequate.

#### Protective Clothing:

Wear protective clothing as necessary to prevent contact.

### Work Hygienic Practices:

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	: Liquid
<b>Odor</b>	: Mild, amine
<b>Odor Threshold</b>	: No data available.



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<b>Appearance</b>	: Mobile liquid
<b>Color</b>	: Clear
<b>pH</b>	: No data available.
<b>% Volatiles</b>	: < 1 % w/w
<b>Flash Point and Method</b>	: > 100°C (212°F) Closed Cup
<b>Flammable Limits</b>	: No data available.
<b>Autoignition Temperature</b>	: No data available.
<b>Vapor Pressure</b>	: No data available.
<b>Vapor Density</b>	: No data available.
<b>Boiling Point</b>	: No data available.
<b>Freezing Point</b>	: No data available.
<b>Melting Point</b>	: Not Applicable
<b>Solubility in Water</b>	: Practically insoluble
<b>Evaporation Rate (n-butyl acetate = 1)</b>	: No data available.
<b>Density</b>	: 1.10±0.02g/l at 20°C
<b>Viscosity</b>	: > 100 cps at 25°C
<b>VOC Content</b>	: < 10 g/l
<b>Partition Coefficient (n-octanol/water)</b>	: No data available.
<b>Oxidizing Properties</b>	: None

### 10. STABILITY AND REACTIVITY

**Reactive Hazard** : No

**Hazardous Polymerization:**

Not expected to occur.

**Stability:**

Stable.

**Conditions to Avoid:**

Keep away from flames and any object that sparks.

**Possibility of Hazardous Reactions:**

No data available.

**Hazardous Decomposition Products:**

Carbon Monoxide and other toxic vapors.

**Incompatible Materials:**

Oxidizing materials.

### 11. TOXICOLOGICAL INFORMATION

**Product Acute Toxicity**

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Chemical Name	ORAL LD <sub>50</sub> mg/kg (rat)	DERMAL LD <sub>50</sub> mg/kg (rabbit)	INHALATION LC <sub>50</sub> mg/l
Diethyltoluenediamine	472, 542	> 1000	>2.45(rat;1h)
Dimethylthiotoluenediamine	1515	> 2000	No data available.

**Acute Toxicity - Dermal LD<sub>50</sub>:** The calculated ATE is >2000 mg/kg.

**Notes:** Based on available data, the classification criteria for Acute Dermal Toxicity are not met for this mixture.

**Acute Toxicity - Oral LD<sub>50</sub>:** The calculated ATE is >2000 mg/kg.

**Notes:** Based on available data, the classification criteria for Acute Oral Toxicity are not met for this mixture.

**Acute Toxicity - Inhalation LC<sub>50</sub>:** No data available.

**Notes:** The mixture is not classified due to lack of data. At room temperature, exposure to vapor is minimal due to low volatility. An estimate based on component information. Not classified.

### Toxicological Data:

10% of the mixture consists of an ingredient or ingredients of unknown acute toxicity.

No additional toxicology information is available for this product itself. (See Component Toxicity Information).

### Eye Irritation / Serious Eye Damage:

Contact causes serious eye irritation. The mixture is classified as: Eye Irritant, category 2, based on summation of ingredient data (>10% ingredients classified as eye irritant, category 2). Symptoms may include pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

### Skin Irritation / Corrosion:

Based on available data, the classification criteria for skin irritation are not met for this mixture. Substance does not generally irritate and is only mildly irritating to the skin.

### Carcinogenicity

#### Notes:

Based on available data, the classification criteria for Carcinogenicity are not met for this mixture (< 0.1% ingredients classified as a Carcinogen, category 1 or 2).

### Specific Target Organ Toxicity - Repeated Exposure:

The mixture is classified as: Specific Target Organ Toxicity - Repeated Exposure, category 2, based on ingredient data using the applicable cut-off/concentration limits ( $\geq 1.0\%$  ingredients classified as Specific Target Organ Toxicity - Repeated Exposure, category 2). Repeated, excessive exposures may cause liver effects.

### Respiratory / Skin Sensitizer:

May cause sensitization by skin contact. The mixture is classified as: Skin Sensitizer, category 1 based on ingredient data ( $\geq 0.1\%$  ingredients classified as a skin sensitizer, category 1 or sub-category 1A or  $\geq 1.0\%$  ingredients classified as a skin sensitizer, sub-category 1B). Prolonged contact with this product can cause reddening, swelling, rash scaling or blistering. In those who have developed skin sensitization, these symptoms can develop as a result of contact with very small amount of the liquid material.

Based on available data, the classification criteria for respiratory sensitization are not met for this mixture (< 0.1% ingredients classified as a respiratory sensitizer, category 1 or sub-category 1A and < 1.0% ingredients classified as a respiratory sensitizer, sub-category 1B).

### Reproductive Toxicity:

Based on available data, the classification criteria for Reproductive Toxicity are not met for this mixture (< 0.1% ingredients classified as Reproductive Toxicity, category 1 or 2).

### Specific Target Organ Toxicity - Single Exposure:

Based on available data, the classification criteria for Specific Target Organ Toxicity - Single Exposure are not met for this mixture (< 1.0% ingredients classified as Specific Target Organ Toxicity - Single Exposure, category

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1 or 2 and < 20% summation of all ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 3).

### Germ Cell Mutagenicity:

Based on available data, the classification criteria for Germ Cell Mutagenicity are not met for this mixture (< 0.1% ingredients classified as Germ Cell Mutagen, category 1A or 1B and < 1.0% ingredients classified as Germ Cell Mutagen, category 2).

### Aspiration Hazard:

Based on available data, the classification criteria for Aspiration Hazard are not met for this mixture (< 10% ingredients classified as an Aspiration Hazard, category 1 and/or mixture viscosity > 20.5 mm<sup>2</sup>/s at 40 °C).

## 12. ECOLOGICAL INFORMATION

### Environmental Data:

No data available.

### Ecotoxicological Information:

No data available.

### Bioaccumulation/Accumulation:

No data available.

### Distribution:

No data available.

### Aquatic Toxicity (Acute):

No data available.

### Chemical Fate Information:

No data available.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Method:

Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal. Do not discharge substance/product into sewer system.

### Product Disposal:

Empty containers retain product residue; observe all precautions for product. Decontaminate containers prior to disposal.

## 14. TRANSPORT INFORMATION

### DOT (Department of Transportation)

**Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Diethyltoluenediamine and Dimethylthiotoluenediamine)

**Primary Hazard Class/Division:** 9

**UN/NA Number** : 3082

**Packing Group** : III

**Marine Pollutant** : Yes

### Other Shipping Information:

These Regulations do not apply to the handling, offering for transport or transporting of less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle.

### Vessel (IMO/IMDG)

**Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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(Diethyltoluenediamine and Dimethylthiotoluenediamine)

**UN/NA Number** : 3082

**Primary Hazard Class/Division:** 3

**Packing Group** : III

**Marine Pollutant** : Yes

**Label** : None

**Note:** With an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

### Canadian Transportation of Dangerous Goods Regulations

**Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Diethyltoluenediamine and Dimethylthiotoluenediamine)

**UN/NA Number** : 3082

**Primary Hazard Class/Division:** 3

**Packing Group** : III

**Label** : None

**TDG Note:**

These Regulations do not apply to the handling, offering for transport or transporting of less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle.

## 15. REGULATORY INFORMATION

### UNITED STATES

#### SARA Section 311/312 Hazard Categories

**Fire Hazard** : No  
**Sudden Release of Pressure** : No  
**Reactive Hazard** : No  
**Product Acute Toxicity** : Yes  
**Product Chronic Toxicity** : Yes

#### EPCRA Section 313 Toxic Chemicals:

This product does not contain any listed toxic chemicals that exceed the threshold reporting levels established by SARA Title III, Section 313.

#### EPCRA Section 302 Extremely Hazardous Substances

**EPCRA Status:**

This product contains no listed extremely hazardous substances that are subject to the reporting requirements of SARA Title III, Section 302.

#### TSCA (The Toxic Substances Control Act)

**TSCA Status:**

All components are included or are otherwise exempt from inclusion on this inventory.

#### CAA 112(b) - Hazardous Air Pollutants

#### CAA 112(r) - List of Substances for Accidental Release Prevention:

This product contains no chemicals subject to CAA 112(b) or CAA 112(r).

#### OSHA Hazard Communication Standard (29 CFR 1910.1200):

OSHA Status: Hazardous Product (See Section 2 for details).

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This product has been classified in accordance with the hazard criteria of the USA OSHA Hazard Communication Standard (29CFR 1910.1200) and the Safety Data Sheet contains all the information required by the OSHA Hazard Communication Standard (HazCom 2012).

### CANADA

#### WHMIS Hazard Symbol and Classification

See Section 2 for details.

#### WHMIS Regulatory Status:

This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

#### WHMIS Classification:

WHMIS 2015 (Canada) Status: Hazardous Product (See Section 2 for details).

#### CEPA - National Pollutant Release Inventory (NPRI):

This product contains no chemicals subject to CEPA - NPRI.

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):

All components are included or are otherwise exempt from inclusion on this inventory.

#### Comments

VOC Content -- See section 9.

## 16. OTHER INFORMATION

**Reason for Issue:** NEW

**Prepared By :** Regulatory Compliance

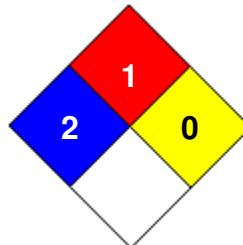
**Date Prepared:** 08/13/2015

**Information Contact:** (800) 824-2843

#### HMIS RATING

<b>HEALTH</b>	*	<b>2</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>B</b>

#### NFPA CODES



**NFPA 30 / 30B Storage Classification:** Combustible Liquid IIIB

**Manufacturer Supplemental Notes:** None

**Data Sources:** Not Available

#### Additional MSDS Information:

N/AV Not Available

N/AP Not Applicable

ND Not yet determined

CAA The Clean Air Act

CCCR The Consumer Chemicals and Containers Regulations

CEPA The Canadian Environmental Protection Act

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EPCRA The Emergency Planning and Community Right-To-Know Act

IARC International Agency for Research on Cancer

MSHA Mine Safety and Health Administration

NIOSH National Institute for Occupational Safety and Health

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NTP National Toxicology Program  
OSHA The Occupational Safety and Health Act  
SARA The Superfund Amendments and Reauthorization Act  
WHMIS Workplace Hazardous Materials Information System

### **General Statements:**

No data available.

### **Comments:**

None

### **Manufacturer Disclaimer:**

The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. No responsibility is assumed for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of this material.