

SECTION 1: Identification and Company Details**Product Name:** PROFLEX® PWA 600**Product Code:** PWA 600**Manufacturer/ Supplier:** PROFLEX® Products Inc**Address:** 1603 Grove Ave
Haines City, FL 33844**Emergency Phone:** 613-996-6666**Product Information:** (877)577-5363

Relevant identified uses of the substance or mixture. Isocyanate

SECTION 2: Hazard(s) Identification

Classification of the substance or mixture



GHS08 Health Hazard

Resp. Sens. 1
STOT REH334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
2H373 May cause damage to organs through prolonged or repeated exposure

GHS07

Skin Irrit. 2
Eye Irrit. 2A
Skin Sens. 1
STOT SE 3H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction
H335 May cause respiratory irritation.**Label elements****GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

GHS07 GHS08

Signal word Danger

Hazard statements

Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.
Wear respiratory protection.
Wear protective gloves.
Wear eye protection / face protection.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
If experiencing respiratory symptoms: Call a poison center/doctor.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a poison center/doctor if you feel unwell.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:**NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 1
Reactivity = 1

HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = 2
FIRE	1	Fire = 1
PHYSICAL HAZARD	1	Physical Hazard = 1

Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

SECTION 3: Composition / Information on Ingredients**Chemical characterization: Mixtures**

Description: Polyurethane

Hazardous Components		
101-68-8	4,4'-methylenediphenyl diisocyanate	≤2.5%
9016-87-9	diphenylmethane diisocyanate, isomers and homologue	≤2.5%
4083-64-1	4-isocyanato sulfonyl toluene	≤2.5%

SECTION 4: First-Aid Measures**Description of First Aid Measures**

General Advice: Upon contact, remove material from skin, eyes, clothing.
If irritation persists, seek medical attention.

Inhalation: Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Skin Contact: Wipe excess from skin. Immediately wash with water and soap and rinse thoroughly.

Eye Contact: Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

Ingestion: Do not induce vomiting. Seek medical help immediately.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Fire-Fighting Measures**Extinguishing Media:**CO₂, extinguishing powder or water sprayer. Fight larger fires with water spray. Use fire fighting measures that suit the environment.**Special hazards arising from the substance or mixture:**

Closed containers may forcibly rupture under extreme heat or when contents are contaminated with water.

Carbon Dioxide (CO₂) is formed.**Advice for firefighters:**

Protective clothing and respiratory protective device.

Further Information:

Dispose debris and contaminated clothing in accordance with regulations.

SECTION 6: Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Environmental precautions: Do not allow to enter sewers / surface or groundwater.

Methods and material for containment and cleaning up:

Cover spilled material with neutralization solution (see below) and mix. Wait 15 minutes.

Collect material in open-head metal containers. Repeat neutralization and cleaning process until surface is decontaminated.

Apply drum lid but DO NOT secure.

Allow containers to vent for 72 hours to let carbon dioxide escape.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste in accordance with federal state and local regulations.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and Storage

Handling Precautions: Prevent formation of aerosols.

Information about protection against explosions and fires:

Product reacts with water. Reaction may produce heat and/or gases. Container may rupture from gas generation in a fire situation. This reaction may be violent.

Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Keep containers tightly closed when not in use. Protect from atmospheric moisture.

Information about storage in one common storage facility: Store away from water.

Further information about storage conditions:

Protect from humidity and water.

Keep receptacle tightly sealed.

Specific end use(s)

No further relevant information available.

SECTION 8: Exposure Control / Personal Protection

Additional information about design of technical systems: No further data.

Control parameters**Components with limit values that require monitoring at the workplace:****101-68-8 4,4'-methylenediphenyl diisocyanate**

PEL Ceiling limit value: 0.2 mg/m³, 0.02 ppm

REL Long-term value: 0.05 mg/m³, 0.005 ppm

Ceiling limit value: 0.2* mg/m³, 0.02* ppm

*10-min

TLV Long-term value: 0.051 mg/m³, 0.005 ppm

Additional information:

MDI products have poor warning properties, since recognition of an odor is far above the TLV. Observe OSHA regulations for respirator use (29 CFR 1910.134).

The lists that were valid during the creation were used as basis.

Exposure controls**Personal protective equipment (see listings below)****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

Airborne MDI concentrations greater than the ACGIH TLV-TWA or OSHA PEL can occur in inadequately ventilated environments when MDI is sprayed or heated. In such cases respiratory protection is required.

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product / the substance / the preparation.

Material of gloves:

Butyl rubber, BR

Chloroprene rubber, CR

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses with side shields.

Tightly sealed goggles.

Use full face shield over protective eyewear when there is a risk of a splash.

Body protection:

Apron

Protective work clothing

SECTION 9: Physical and Chemical Properties**Information on basic physical and chemical properties****General properties:**

Form: liquid

Odor: characteristic

Odor threshold: not determined

Color: brown
pH value: not determined
Melting point: undetermined
Boiling point: undetermined
Flash point: > 93 °C (> 199 °F)
Flammability: not applicable
Ignition temperature
Decomposition temperature: not determined
Auto igniting: product is not self igniting
Danger of explosion: product does not present an explosion hazard
Vapor pressure: not determined
Specific gravity at 20 °C (68 °F): 1.6 g/cm³ (13.352 lbs/gal)
Relative density: not determined
Vapour density: not determined
Evaporation rate: not determined
Solubility in / Miscibility with Water: not miscible or difficult to mix
Partition coefficient (n-octanol/water): not determined
Viscosity:
 Dynamic: not determined
Kinematic: not determined
Solvent Content:
 Organic solvents: 0.0%
Solid content: not available
Other information: no further relevant information available.

SECTION 10: Stability and Reactivity

Reactivity: No further relevant information available.

Chemical stability**Thermal decomposition / conditions to be avoided:**

Contact with moisture, other materials that react with isocyanates, or temperatures above 350F (177C), may cause polymerization.

Possibility of hazardous reactions

Violent reaction with water at high temperatures.

May produce violent reactions with bases and numerous organic substances including alcohols and amines MDI reacts slowly with water to form Carbon Dioxide gas. This gas can cause sealed containers to expand and possibly rupture. Contact with moisture, other materials that react with isocyanates, or temperatures above 350F, may cause polymerization.

Conditions to avoid

Exposure to high temperatures.

Moisture

Incompatible materials:

Reacts with amines, caustic alkali solutions, alcohols, ammonia, oxidizers, acids, polyols. Reacts with water forming carbon dioxide-may rupture sealed containers if contaminated with water. May produce violent reactions with bases and numerous organic substances including alcohols and amines copper and copper alloys.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological Information**Information on toxicological effects****Acute toxicity:****LD/LC50 values that are relevant for classification****101-68-8 4,4'-methylenediphenyl diisocyanate**

Oral LD50 2200 mg/kg (mouse)

Primary irritant effect:**on the skin:** Irritant to skin and mucous membranes.**on the eye:** Irritating effect.**Sensitization:**

Inhalation - Sensitization possible through inhalation.

Skin Contact - Sensitization possible through skin contact.

Additional toxicological information:

May cause allergic respiratory reaction.

Animal tests have indicated that respiratory sensitization can result from skin contact with MDI. Use skin protection. Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. The product shows the following dangers according to internally approved calculation methods for preparations:

*Harmful**Irritant***Carcinogenic categories****IARC (International Agency for Research on Cancer)**

101-68-8 4,4'-methylenediphenyl diisocyanate 3

9016-87-9 diphenylmethanediisocyanate, isomers and homologues 3

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

SECTION 12: Ecological Information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability:** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.

Additional ecological information:**General notes:**

At present there are no ecotoxicological assessments.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

SECTION 13: Disposal Considerations**Water treatment methods**

Recommendation: Must be specially treated adhering to official regulations.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport Information**UN-Number**

DOT, ADR, ADN, IMDG, IATA: not regulated

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA: not regulated

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA: not regulated

Packing group

DOT, ADR, IMDG, IATA: not regulated

Environmental hazards: not applicable

Special precautions for user: not applicable

**Transport in bulk according
to ANNEX II of MARPOL 73/78**

and the IBC Code: not applicable

Transport/Additional Information: MDI (CAS 101-68-8) exhibits a CERCLA RQ equal to 5,000 pounds. Quantities less than the RQ amount are not regulated in transportation.

UN "Model Regulation: -

SECTION 15: Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Sara

Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

101-68-8 4,4'-methylenediphenyl diisocyanate

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

TSCA (Toxic Substances Control Act): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

Proposition 65

Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity: None of the ingredients is listed.

(DSL) Canada Domestic Substance List

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

Carcinogenicity categories**EPA (Environmental Protection Agency)**

101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD
9016-87-9	diphenylmethanediisocyanate, isomers and homologues	CBD

TLV (Threshold Limit Value established by ACGIH): None of the ingredients listed.

MAK (German Maximum Workplace Concentration)

101-68-8	4,4'-methylenediphenyl diisocyanate	4
9016-87-9	diphenylmethanediisocyanate, isomers and homologues	4

NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed.

National regulations:

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other Information

Prepared by: Proflex Products Safety & Regulatory Compliance Group, (877)577-6353

PROFLEX Products, Inc. believes the data set forth herein are accurate as of the data hereof. PROFLEX makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.

Date of issue: 4/6/17