SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision 26 August 2024

Version 1.04

Section 1. Identification

Product name : AQUATAFLEX 505 - A

Product code : 00465071

Other means of : Not available.

identification

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

Supplier : PPG Architectural Coatings Canada, Inc.

1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4

Canada

+1 450-655-3121

PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272
: (412) 434-4515 (U.S.)

Emergency telephone : (412) 434-4515 (U.S.)
number : (514) 645-1320 (Canada)

SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)

Technical Phone Number: 888-977-4762

Section 2. Hazard identification

Classification of the substance or mixture

: ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

RESPIRATORY SENSITIZATION - Category 1A

SKIN SENSITIZATION - Category 1A CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

GHS label elements

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Section 2. Hazard identification

Hazard pictograms





Signal word

: Danger

Hazard statements

: Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation. Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure. (nose/

sinuses, respiratory system)

Precautionary statements

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Use only outdoors or in a wellventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

: IF exposed or concerned: Get medical advice or 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. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or 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 or attention.

Photosensitive agents: In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.

Storage Disposal

- : Store locked up. Store in a well-ventilated place. Keep container tightly closed.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

: Moisture-sensitive material. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Persons with a history of skin sensitization problems or asthma. allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Emits toxic fumes when heated. Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 9%

(oral), 47% (dermal)

Other hazards which do not : None known. result in classification

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Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : AQUATAFLEX 505 - A

Other means of : Not available.

identification

CAS number/other identifiers

Ingredient name	Synonyms	% (w/w)	CAS number
Isocyanic acid, polymethylenepolyphenylene ester	Polymethylenepolyphenyl isocyanate; Polymeric diphenylmethane diisocyanate; PAPI; polymeric diphenylmethane diisocyanate; polymeric MDI; METHYLENE DIPHENYL DIISOCYANATE; pMDI; Isocyanuric acid polymethylene polyphenyl isocyanate; polymeric MDI; MDI oligomers; DIPHENYLMETHANEDIISOCYANATE, isomers and homologues; Polymethylenepolyphenyl polyisocyanate	30 - 60*	9016-87-9
4,4'-methylenediphenyl diisocyanate	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; Benzene, 1,1'-methylenebis[4-isocyanato-; Benzene, 1,1'-methylenebis(4-isocyanato-; 4,4'-Diisocyanatodiphenylmethane; 4,4'-Diphenylmethane diisocyanate; 4,4-Methylenediphenyl diisocyanate; Isocyanic acid, methylenedi-p-phenylene ester; Methylenebis[4-phenyl diisocyanate; Methylene, 4,4'-diphenyl diisocyanate-		101-68-8
o-(p-isocyanatobenzyl)phenyl isocyanate	diphenylmethane-2,4'-diisocyanate; Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-; Benzene, 1-isocyanato-2-((4-isocyanatophenyl) methyl)-; Benzene, 1-isocyanato-2- [4-isocyanatophenyl)methyl]-; 1-isocyanato-2-(4-isocyanatobenzyl) benzene; 2,4'-methylenediphenylene diisocyanate; 2,4'-MDI; diphenylmethane- 2,4'-diisocyanate; o-(pisocyanatobenzyl) phenyl isocyanate; diphenylmethane-2,4'- diisocyanate; 2,4'-diphenylmethane diisocyanate	3 - 7*	5873-54-1
methylenediphenyl diisocyanate	Benzene, 1,1'-methylenebis[isocyanato-; Benzene, 1,1'-methylenebis(isocyanato-; Diphenylmethane diisocyanate; Benzene, 1,1'-methylenebis[isocyanato]-; MDI; benzene, 1,1'-methylenebis[isocyanato-; Ar,ar'-diphenylmethane diisocyanate (unspec.); Polymeric 4,4'-Methylenediphenyl diisocyanate; non-isomer-specific MDI; 4,4'-Methylenediphenyl diisocyanate; 1,1'-	1 - 5*	26447-40-5

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Section 3. Composition/information on ingredients

-			
	Methylenebis[isocyanatobenzene]		
2,4-dioxo-1,3-diazetidine-1,3-diylbis[p-phenylenemethylene-p-phenylene] diisocyanate	1,3-Diazetidine-2,4-dione, 1,3-bis[4-[(4-isocyanatophenyl)methyl]phenyl]-; 1,3-Bis[4-[(4-isocyanatophenyl)methyl; 1,3-Bis[4-[(4-isocyanatophenyl)methyl] phenyl]-1,3-diazetidine-2,4-dione; DIAZETIDINE(1,3)-2,4-DIONE, 1,3-BIS(4-((4- ISOCYANATOPHENYL)METHYL) PHENYL)-	1 - 5*	17589-24-1
2,2'-methylenediphenyl diisocyanate	2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate; Benzene, 1,1'-methylenebis[2-isocyanato-; 1,1'-Methylenebis[2-isocyanatobenzene; 1,1'-methanediylbis (2-isocyanatobenzene); Benzene, 1,1'-methylenebis[2-isocyanato-; 2,2'-MDI; diphenylmethane-2,2'-diisocyanate; 1,1'-Methylenebis(2-isocyanatobenzene); Diphenylmethanediisocyanate; 2,2'-MDI	0.5 - 1.5*	2536-05-2
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomega hydroxypoly(oxy-1,2-ethanediyl)	Isocyanic acid, polymethylenepolyphenylene ester, polymer with α-hydro-ω-hydroxypoly(oxy-1,2-ethanediyl); 2-Oxepanone, polymer with 2-ethyl-2-(hydroxymethyl) -1,3-propanediol, 5-isocyanato-1-(isocyanatomethyl) -1,3,3-trimethylcyclohexane and 2,2'-oxybis[ethanol], 2-hydroxyethyl acrylate-blocked; Isocyanic acid, polymethylenepolyphenylene ester, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyl); Polymethylene polyphenylisocyanate, polyethylene glycol polymer; Isocyanic acid, polymethylene ester, polymer with alphahydro-, omega-hydroxypoly (oxy-1,2-ethanediyl)	0.5 - 1.5*	57636-09-6

^{*}Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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Product name AQUATAFLEX 505 - A

Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact: Remove contact lenses, irrigate copiously with clean, fresh water, holding the

eyelids apart for at least 10 minutes and seek immediate medical advice.

In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners.

In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after

contact.

Ingestion: If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

wheezing and breathing difficulties

asthma

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

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Section 4. First-aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon oxides nitrogen oxides

Cyanate and isocyanate. hydrogen cyanide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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Section 6. Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Special provisions

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Special precautions

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Advice on general occupational hygiene

: Wash hands thoroughly after handling.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Precautions should be taken to minimize exposure to atmospheric humidity or water.

CO₂ will be formed, which, in closed containers, could result in pressurization.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Isocyanic acid, polymethylenepolyphenylene ester	CA Alberta Provincial (Canada, 3/2023). OEL: 0.07 mg/m³ 8 hours. OEL: 0.005 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Isocyanates, organic compounds] Ceiling Limit: 0.02 ppm TWA: 0.005 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). [Isocyanate oligomers] Skin sensitizer. Inhalation sensitizer.
4,4'-methylenediphenyl diisocyanate	CA Alberta Provincial (Canada, 3/2023). OEL: 0.05 mg/m³ 8 hours. OEL: 0.005 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023). Inhalation sensitizer. C: 0.01 ppm 15 minutes. TWA: 0.005 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). Skin sensitizer. Inhalation sensitizer. TWAEV: 0.051 mg/m³ 8 hours. TWAEV: 0.005 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 0.015 ppm 15 minutes. TWA: 0.005 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019).
	[Isocyanates, organic compounds] Ceiling Limit: 0.02 ppm TWA: 0.005 ppm 8 hours.
o-(p-isocyanatobenzyl)phenyl isocyanate	CA British Columbia Provincial (Canada, 8/2023). [Diisocyanates, not elsewhere specified, NOS] C: 0.01 ppm 15 minutes. TWA: 0.005 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Isocyanates, organic compounds] Ceiling Limit: 0.02 ppm TWA: 0.005 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023).

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Section 8. Exposure controls/personal protection

methylenediphenyl diisocyanate

phenylene] diisocyanate

2,2'-methylenediphenyl diisocyanate

CA British Columbia Provincial (Canada, 8/2023). [Diisocyanates, not elsewhere specified, NOS1

Inhalation sensitizer.

C: 0.01 ppm 15 minutes. TWA: 0.005 ppm 8 hours.

CA Ontario Provincial (Canada, 6/2019). [Isocyanates, organic compounds]

[Isocyanate oligomers] Skin sensitizer.

Ceiling Limit: 0.02 ppm TWA: 0.005 ppm 8 hours.

CA Quebec Provincial (Canada, 7/2023). [Isocyanate oligomers] Skin sensitizer. Inhalation sensitizer.

2,4-dioxo-1,3-diazetidine-1,3-diylbis[p-phenylenemethylene-p-

CA Quebec Provincial (Canada, 7/2023). [Isocyanate oligomers] Skin sensitizer.

Inhalation sensitizer.

CA British Columbia Provincial (Canada, 8/2023). [Diisocyanates, not elsewhere specified, NOS1

C: 0.01 ppm 15 minutes. TWA: 0.005 ppm 8 hours.

CA Ontario Provincial (Canada, 6/2019). [Isocyanates, organic compounds]

Ceiling Limit: 0.02 ppm TWA: 0.005 ppm 8 hours.

CA Quebec Provincial (Canada, 7/2023). [Isocyanate oligomers] Skin sensitizer. Inhalation sensitizer.

Isocyanic acid, polymethylenepolyphenylene ester, polymer with . alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl)

None.

Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Chemical splash goggles.

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Section 8. Exposure controls/personal protection

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves

polyethylene butyl rubber

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use an air-fed respirator unless a site-specific assessment determines that an airfed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Restrictions on use

Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. : Not available. Color Odor : Odorless. : Not available. **Odor threshold** pН : Not applicable. **Melting point** : Not available. **Boiling point** : >37.78°C (>100°F)

Flash point : Closed cup: 197°C (386.6°F)

Auto-ignition temperature : Not available. **Decomposition temperature** : Not available. **Flammability** : Not available. Lower and upper explosive : Not available.

(flammable) limits

Evaporation rate : Not available. **Vapor pressure** : Not available. Vapor density : Not available.

Relative density : 1.23 Density (lbs/gal) : 10.26

Solubility(ies)

.]	Media	Result
•]	cold water	Not soluble

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Section 9. Physical and chemical properties

Partition coefficient: n-

octanol/water

: Not applicable.

Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Volatility : 0% (v/v), 0% (w/w)

% Solid. (w/w) : 100

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : In a fire, hazardous decomposition products may be produced.

Refer to protective measures listed in sections 7 and 8.

Incompatible materials : Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols,

water. Uncontrolled exothermic reactions occur with amines and alcohols.

Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isocyanic acid, polymethylenepolyphenylene ester	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	49 g/kg	-
4,4'-methylenediphenyl diisocyanate	LD50 Oral	Rat	9200 mg/kg	-
methylenediphenyl diisocyanate	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	>10000 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-methylenediphenyl diisocyanate	Skin - Irritant	Rabbit	-	-	-

Conclusion/Summary

Skin
Eyes
There are no data available on the mixture itself.
Respiratory
There are no data available on the mixture itself.
There are no data available on the mixture itself.

Sensitization

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Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
4,4'-methylenediphenyl diisocyanate	Respiratory	Guinea pig	Sensitizing
methylenediphenyl diisocyanate	skin Respiratory	Mouse Guinea pig	Sensitizing Sensitizing
	skin	Guinea pig	Sensitizing

Skin

: There are no data available on the mixture itself.

Respiratory

: There are no data available on the mixture itself.

Mutagenicity

Conclusion/Summary

: There are no data available on the mixture itself.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-methylenediphenyl diisocyanate	Positive - Inhalation - TC	Rat	J.	2 years; 5 days per week

Conclusion/Summary

: There are no data available on the mixture itself.

Classification

Product/ingredient name	OSHA	IARC	NTP
Isocyanic acid, polymethylenepolyphenylene ester	-	3	-
4,4'-methylenediphenyl diisocyanate	-	3	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

Reproductive toxicity

Conclusion/Summary: There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Isocyanic acid, polymethylenepolyphenylene ester	Category 3	-	Respiratory tract irritation
4,4'-methylenediphenyl diisocyanate	Category 3	-	Respiratory tract irritation
o-(p-isocyanatobenzyl)phenyl isocyanate	Category 3	-	Respiratory tract irritation
methylenediphenyl diisocyanate	Category 3	-	Respiratory tract irritation
2,4-dioxo-1,3-diazetidine-1,3-diylbis[p- phenylenemethylene-p-phenylene] diisocyanate	Category 3	-	Respiratory tract irritation
2,2'-methylenediphenyl diisocyanate	Category 3	-	Respiratory tract irritation
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomegahydroxypoly(oxy-	Category 3	-	Respiratory tract irritation

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Section 11. Toxicological information

1,2-ethanediyl)

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Isocyanic acid, polymethylenepolyphenylene ester	Category 2	inhalation	-
4,4'-methylenediphenyl diisocyanate	Category 2	inhalation	respiratory system
o-(p-isocyanatobenzyl)phenyl isocyanate	Category 2	-	-
methylenediphenyl diisocyanate	Category 2	-	-
2,4-dioxo-1,3-diazetidine-1,3-diylbis[p-phenylenemethylene-p-phenylene] diisocyanate	Category 2	inhalation	nose/sinuses
2,2'-methylenediphenyl diisocyanate	Category 2	-	-
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomegahydroxypoly(oxy-1,2-ethanediyl)	Category 2	inhalation	nose/sinuses

Target organs

: Contains material which causes damage to the following organs: lungs, upper respiratory tract, eyes, nose/sinuses, throat.

Contains material which may cause damage to the following organs: skin.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

wheezing and breathing difficulties

asthma

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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

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Section 11. Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. If splashed in the eyes, the liquid may cause irritation and reversible damage. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

Potential immediate

effects

: There are no data available on the mixture itself.

Potential delayed effects

: There are no data available on the mixture itself.

Long term exposure

Potential immediate

effects

: There are no data available on the mixture itself.

Potential delayed effects

: There are no data available on the mixture itself.

Potential chronic health effects

General

: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity

: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity
Reproductive toxicity

No known significant effects or critical hazards.No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
AQUATAFLEX 505 - A	N/A	N/A	N/A	22.9	2.4
Isocyanic acid, polymethylenepolyphenylene ester	49000	N/A	N/A	N/A	1.5
4,4'-methylenediphenyl diisocyanate	9200	N/A	N/A	11	N/A
o-(p-isocyanatobenzyl)phenyl isocyanate	N/A	N/A	N/A	11	1.5
methylenediphenyl diisocyanate	N/A	N/A	N/A	11	1.5
2,4-dioxo-1,3-diazetidine-1,3-diylbis[p-phenylenemethylene-p-phenylene] diisocyanate	N/A	N/A	N/A	N/A	1.5
2,2'-methylenediphenyl diisocyanate	N/A	N/A	N/A	11	1.5
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomegahydroxypoly (oxy-1,2-ethanediyl)	N/A	N/A	N/A	N/A	1.5

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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
methylenediphenyl diisocyanate	Acute LC50 >100 mg/l	Fish	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4,4'-methylenediphenyl diisocyanate	4.51	-	High
o-(p-isocyanatobenzyl) phenyl isocyanate	4.51	-	High
methylenediphenyl diisocyanate	4.51	-	High
2,2'-methylenediphenyl diisocyanate	5.22	-	High

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

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Product name AQUATAFLEX 505 - A

Section 14. Transport information

	TDG	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class (es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

TDG : None identified. **IMDG** : None identified. **IATA** : None identified.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according: Not applicable.

to IMO instruments

Section 15. Regulatory information

National Inventory List

Canada inventory (DSL) : All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health: Flammability: 1 Physical hazards:

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health: Flammability: 1 **Instability**: 1

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revision

Organization that prepared : EHS

the SDS

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Section 16. Other information

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group

UN = United Nations

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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