SAFETY DATA SHEET



Flexible Fast Dual Tank Adhesive Part A

Section 1. Identification

GHS product identifier

: Flexible Fast Dual Tank Adhesive Part A

Product code
Other means of identification

: Not available.

: 336119

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

Identified uses

Adhesive.

Uses advised against

Not applicable.

Supplier's details : Carlisle SynTec

1285 Ritner Highway Carlisle, PA 17013 USA +1-800-479-6832

Emergency telephone number (with hours of

operation)

: +1-800-424-9300 (Chemtrec)

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: GASES UNDER PRESSURE - Compressed gas ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

RESPIRATORY SENSITIZATION - Category 1

SKIN SENSITIZATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

GHS label elements

Hazard pictograms







Signal word

: Danger

Hazard statements

: H280 - Contains gas under pressure; may explode if heated.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 - May cause respiratory irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

(respiratory system) (inhalation)

Precautionary statements

Date of issue/Date of revision : 2/22/2024 Date of previous issue : No previous validation Version : 1 1/14

Section 2. Hazards identification

Prevention: P280 - Wear protective gloves. Wear eye or face protection.

P284 - Wear respiratory protection.

P271 - Use only outdoors or in a well-ventilated area.

P260 - Do not breathe gas.

P264 - Wash thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.

Response : P314 - Get medical advice or attention if you feel unwell.

P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER or doctor if you feel unwell.

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

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

Storage : P405 - Store locked up.

P410 + P403 - Protect from sunlight.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazards not otherwise

classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture
Other means of

identification

: Mixture

: Not available.

Ingredient name	%	CAS number
4,4'-methylenediphenyl diisocyanate	≥30 - ≤60	101-68-8
Propane-1,2-diol, propoxylated	≥15 - ≤40	25322-69-4
diphenylmethane-diisocyanate, isomers and homologues	≥15 - ≤40	9016-87-9
Propene, 1,3,3,3,-tetrafluoro-,(E)-	≥7 - ≤13	29118-24-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

Date of issue/Date of revision : 2/22/2024 Date of previous issue : No previous validation Version : 1 2/14

Section 4. First aid measures

person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Causes serious eye irritation. Contact with rapidly expanding gas may cause burns or

frostbite.

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. Contact with rapidly

expanding gas may cause burns or frostbite.

Ingestion: As this product is a gas, refer to the inhalation section.

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.

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

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

Date of issue/Date of revision : 2/22/2024 Date of previous issue : No previous validation Version : 1 3/14

Section 5. Fire-fighting measures

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides

halogenated compounds

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. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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 mode.

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. Avoid breathing gas. 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 nonemergency personnel".

Environmental precautions

: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. 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

: Immediately contact emergency personnel. Stop leak if without risk.

Large spill

: Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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. Contains gas under pressure. Do not get in eyes or on skin or clothing. Do not breathe gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.

Advice on general occupational hygiene

: 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.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

: 2/22/2024 Date of issue/Date of revision Version: 1 4/14 Date of previous issue : No previous validation

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
4,4'-methylenediphenyl diisocyanate	NIOSH REL (United States, 10/2020). TWA: 0.05 mg/m³ 10 hours. TWA: 0.005 ppm 10 hours. CEIL: 0.2 mg/m³ 10 minutes. CEIL: 0.02 ppm 10 minutes. OSHA PEL (United States, 5/2018). CEIL: 0.02 ppm CEIL: 0.2 mg/m³ OSHA PEL 1989 (United States, 3/1989). CEIL: 0.02 ppm CEIL: 0.02 ppm CEIL: 0.2 mg/m³ ACGIH TLV (United States, 1/2023). TWA: 0.005 ppm 8 hours. CAL OSHA PEL (United States, 5/2018). TWA: 0.051 mg/m³ 8 hours. TWA: 0.005 ppm 8 hours.
Propane-1,2-diol, propoxylated	OARS WEEL (United States, 4/2022). TWA: 10 mg/m ³ 8 hours.
diphenylmethane-diisocyanate, isomers and homologues	None.

Biological exposure indices

No exposure indices known.

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

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

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.

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.

Date of issue/Date of revision : 2/22/2024 Date of previous issue : No previous validation Version : 1 5/14

Section 8. Exposure controls/personal protection

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

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. 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.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Gas. [Compressed gas.]

Color Not available. : Not available. Odor **Odor threshold** : Not available. pН : Not applicable. **Melting point/freezing point** : Not applicable. **Boiling point, initial boiling** : Not available.

point, and boiling range

Flash point : Not applicable. **Flammability** : Not available. : Not available. Lower and upper explosion

limit/flammability limit

Vapor pressure : Not available. Relative vapor density : Not available. Relative density : Not applicable. Solubility in water : Not available. Partition coefficient: n-: Not applicable.

octanol/water

Auto-ignition temperature

Ingredient name	°C	°F	Method
Propane-1,2-diol, propoxylated	305	581	EU A.15
4,4'-methylenediphenyl diisocyanate	>601	>1113.8	EU A.15
o-(p-isocyanatobenzyl)phenyl isocyanate	>601	>1113.8	EU A.15
methylenediphenyl diisocyanate	>601	>1113.8	

Decomposition temperature : Not available. **Viscosity** : Not applicable.

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

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

Chemical stability : The product is stable.

Possibility of hazardous

reactions

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

Date of issue/Date of revision : 2/22/2024 6/14 Date of previous issue : No previous validation Version : 1

Section 10. Stability and reactivity

Conditions to avoid : No specific data.

Incompatible materials: No specific data.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-methylenediphenyl diisocyanate	LD50 Oral	Rat	9200 mg/kg	-
diphenylmethane- diisocyanate, isomers and homologues	LC50 Inhalation Vapor	Rat	490 mg/m³	4 hours
S .	LD50 Dermal LD50 Oral		>9400 mg/kg 49 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-methylenediphenyl diisocyanate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
Propane-1,2-diol, propoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
diphenylmethane- diisocyanate, isomers and homologues	Eyes - Mild irritant	Rabbit	-	100 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
4,4'-methylenediphenyl disocyanate	-	3	-
diphenylmethane- diisocyanate, isomers and homologues	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Date of issue/Date of revision : 2/22/2024 Date of previous issue : No previous validation Version : 1 7/14

Section 11. Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Flexible Fast Dual Tank Adhesive Part A	Category 3		Respiratory tract irritation
diphenylmethane-diisocyanate, isomers and homologues	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	3 3 7	Route of exposure	Target organs
Flexible Fast Dual Tank Adhesive Part A diphenylmethane-diisocyanate, isomers and homologues	Category 2 Category 2	inhalation -	respiratory system -

Aspiration hazard

Not available.

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Eye contact: Causes serious eye irritation. Contact with rapidly expanding gas may cause burns or

frostbite.

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. Contact with rapidly

expanding gas may cause burns or frostbite.

Ingestion: As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

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

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Date of issue/Date of revision : 2/22/2024 Date of previous issue : No previous validation Version : 1 8/14

Section 11. Toxicological information

Genera

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

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : 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/ I)
Flexible Fast Dual Tank Adhesive Part A 4,4'-methylenediphenyl diisocyanate diphenylmethane-diisocyanate, isomers and homologues	N/A	N/A	N/A	11	N/A
	9200	N/A	N/A	N/A	N/A
	49000	N/A	N/A	11	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Propane-1,2-diol, propoxylated	Acute LC50 650 ppm Marine water	Fish - <i>Menidia beryllina</i>	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4,4'-methylenediphenyl diisocyanate	4.51	200	Low
Propane-1,2-diol, propoxylated	-0.68 to 0.01	-	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

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 non-recyclable 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. Empty pressure vessels should be returned to the supplier. 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. Empty containers or liners may retain some product residues. Do not puncture or incinerate

Date of issue/Date of revision : 2/22/2024 Date of previous issue : No previous validation Version : 1 9/14

Section 13. Disposal considerations

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN3500	UN3500	UN3500	UN3500	UN3500
UN proper shipping name	Chemical under pressure, n.o.s. (Propene, 1,3,3,3,-tetrafluoro-,(E)-)	CHEMICAL UNDER PRESSURE, N.O. S. (Propene, 1,3,3,3,-tetrafluoro-,(E)-)	CHEMICAL UNDER PRESSURE, N.O. S. (Propene, 1,3,3,3,-tetrafluoro-,(E)-)	CHEMICAL UNDER PRESSURE, N.O. S. (Propene, 1,3,3,3,-tetrafluoro-,(E)-)	Chemical under pressure, n.o.s. (Propene, 1,3,3,3,- tetrafluoro-,(E)-)
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Additional information

DOT Classification

: Reportable quantity 17162.7 lbs / 7791.9 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Limited quantity No.

Packaging instruction Exceptions: None. Non-bulk: 335. Bulk: 313, 315. **Quantity limitation** Passenger aircraft/rail: 75 kg. Cargo aircraft: 150 kg.

Special provisions 362, T50, TP40

TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.13-2.17 (Class 2).

Explosive Limit and Limited Quantity Index 0 Passenger Carrying Road or Rail Index 75

Special provisions 16, 130

: Emergency schedules F-C, S-V **IMDG**

Special provisions 274, 362

IATA : Quantity limitation Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 218.

Cargo Aircraft Only: 150 kg. Packaging instructions: 218. Limited Quantities -

Passenger Aircraft: Forbidden. Packaging instructions: Forbidden.

Special provisions A187

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 available. to IMO instruments

Date of issue/Date of revision : 2/22/2024 10/14 Date of previous issue : No previous validation Version: 1

Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) PAIR: 4,4'-methylenediphenyl diisocyanate; o-(p-isocyanatobenzyl)phenyl isocyanate; methylenediphenyl diisocyanate

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 8(c) calls for record of SAR: 4,4'-methylenediphenyl diisocyanate;

diphenylmethane-diisocyanate, isomers and homologues; o-(p-isocyanatobenzyl)phenyl

isocyanate; methylenediphenyl diisocyanate

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

DEA List I Chemicals
(Propureer Chemicals)

: Not listed

(Precursor Chemicals)

DEA List II Chemicals

: Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : GASES UNDER PRESSURE - Compressed gas

ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

RESPIRATORY SENSITIZATION - Category 1

SKIN SENSITIZATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Composition/information on ingredients

Name	%	Classification
4,4'-methylenediphenyl diisocyanate	≥30 - ≤60	EYE IRRITATION - Category 2A
Propane-1,2-diol, propoxylated	≥15 - ≤40	EYE IRRITATION - Category 2B
diphenylmethane-diisocyanate,	≥15 - ≤40	ACUTE TOXICITY (inhalation) - Category 4
isomers and homologues		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		RESPIRATORY SENSITIZATION - Category 1
		SKIN SENSITIZATION - Category 1
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
Propene, 1,3,3,3,-tetrafluoro-,(E)-	≥7 - ≤13	GASES UNDER PRESSURE - Compressed gas

SARA 313

Date of issue/Date of revision : 2/22/2024 Date of previous issue : No previous validation Version : 1 11/14

Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	4,4'-methylenediphenyl diisocyanate diphenylmethane-diisocyanate, isomers and homologues	101-68-8 9016-87-9	≥30 - ≤60 ≥15 - ≤40
Supplier notification	4,4'-methylenediphenyl diisocyanate diphenylmethane-diisocyanate, isomers and homologues	101-68-8 9016-87-9	≥30 - ≤60 ≥15 - ≤40

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: METHYLENE BISPHENYL ISOCYANATE

New York : The following components are listed: Methylene diphenyl diisocyanate

New Jersey : The following components are listed: METHYLENE BISPHENYL ISOCYANATE; METHYLENE DIPHENYL DIISOCYANATE (POLYMERIC); DIISOCYANATES;

FLUORIDES; DIISOCYANATES

Pennsylvania : The following components are listed: BENZENE, 1,1'-METHYLENEBIS

[4-ISOCYANATO-

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia: Not determined.Canada: Not determined.China: Not determined.

Eurasian Economic Union : Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): Not determined.

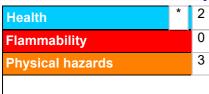
Japan inventory (ISHL): Not determined.

New Zealand : Not determined. **Philippines** : Not determined. Republic of Korea : Not determined. **Taiwan** : Not determined. **Thailand** : Not determined. **Turkey** : Not determined. **United States** : Not determined. **Viet Nam** : Not determined.

Date of issue/Date of revision : 2/22/2024 Date of previous issue : No previous validation Version : 1 12/14

Section 16. Other information

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



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 SDSs 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.)



Procedure used to derive the classification

Classification	Justification	
GASES UNDER PRESSURE - Compressed gas	Expert judgment	
ACUTE TOXICITY (inhalation) - Category 4	Expert judgment	
SKIN IRRITATION - Category 2	Expert judgment	
EYE IRRITATION - Category 2A	Expert judgment	
RESPIRATORY SENSITIZATION - Category 1	Expert judgment	
SKIN SENSITIZATION - Category 1	Expert judgment	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Expert judgment	
irritation) - Category 3		
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Expert judgment	

History

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Version :

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

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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