

1 Identification

- · Product identifier
- · Trade name: 43310 3 Minute General Purpose Adhesive
- · Article number: 43310
- · Application of the substance / the mixture Adhesives
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SEM Products Inc. 1685 Overview Drive

Rock Hill, SC 29730

803 207 8225

· Information department:

cust\_care@semproducts.com : SEM Products,Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT

· Emergency telephone number: CHEMTREC 1-800-424-9300

## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



## GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 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
- $\cdot \textit{Hazard-determining components of labeling:}$

POLYMERIC MDI

4,4'-methylenediphenyl diisocyanate

3-aminomethyl-3,5,5-trimethylcyclohexylamine

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Hydroxy terminated poly(oxyalkylated)polyol / proprietary

· Hazard statements

 $H302\ Harmful\ if\ swallowed.$ 

H315 Causes skin irritation.

H319 Causes serious eve 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.

H335 May cause respiratory irritation.

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

#### · Precautionary statements

*P201 Obtain special instructions before use.* 

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

*P264 Wash thoroughly after handling.* 

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 [In case of inadequate ventilation] wear respiratory protection. P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

*P330* Rinse mouth.

*P302+P352 If on skin: Wash with plenty of water.* 

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

*P308+P313 IF exposed or concerned: Get medical advice/attention.* 

*P321* Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

*P342+P311* If experiencing respiratory symptoms: Call a poison center/doctor.

*P363* Wash contaminated clothing before reuse.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### · Classification system:

#### · NFPA ratings (scale 0 - 4)



Health = 2 Fire = 1 Reactivity = 0

#### · HMIS-ratings (scale 0 - 4)



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- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Mixture: consisting of the following components.

Weight percentages

| · Dangerous components: |                                                           |          |  |
|-------------------------|-----------------------------------------------------------|----------|--|
|                         | Hydroxy terminated poly(oxyalkylated)polyol / proprietary | 30-40%   |  |
| 53862-89-8              | POLYMERIC MDI                                             | 30-40%   |  |
| 101-68-8                | 4,4'-methylenediphenyl diisocyanate                       | 13-30%   |  |
| 2855-13-2               | 3-aminomethyl-3,5,5-trimethylcyclohexylamine              | ≥1.5-<5% |  |

## 4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

*In case of unconsciousness place patient stably in side position for transportation.* 

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · 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.

## 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

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- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

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.

· Protective Action Criteria for Chemicals

| PAC-1:           |                                                 |                        |
|------------------|-------------------------------------------------|------------------------|
| 101-68-8         | 4,4'-methylenediphenyl diisocyanate             | 0.45 mg/m <sup>3</sup> |
| 102-60-3         | 1,1',1"',1"'-ethylenedinitrilotetrapropan-2-ol  | 34 mg/m³               |
| 1333-86-4        | Carbon black                                    | 9 mg/m³                |
| · PAC-2:         |                                                 |                        |
| 101-68-8         | 4,4'-methylenediphenyl diisocyanate             | $5 \text{ mg/m}^3$     |
| 102-60-3         | 1,1',1"',1"'-ethylenedinitrilotetrapropan-2-ol  | 370 mg/m               |
| 1333-86-4        | Carbon black                                    |                        |
| · <i>PAC-3</i> : |                                                 |                        |
| 101-68-8         | 4,4'-methylenediphenyl diisocyanate             | 55 mg/m³               |
| 102-60-3         | 1,1',1"',1"''-ethylenedinitrilotetrapropan-2-ol | 2,200 mg/m             |
| 1333-86-4        | Carbon black                                    | 590 mg/m³              |

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- $\cdot$  *Specific end use*(s) *No further relevant information available.*

## 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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

PEL Ceiling limit value: 0.2 mg/m<sup>3</sup>, 0.02 ppm

REL Long-term value: 0.05 mg/m<sup>3</sup>, 0.005 ppm Ceiling limit value: 0.2\* mg/m<sup>3</sup>, 0.02\* ppm

\*10-min

TLV Long-term value: 0.051 mg/m<sup>3</sup>, 0.005 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · 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.

*Store protective clothing separately.* 

Avoid contact with the eyes and skin.

#### · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### · Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

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

#### · Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

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

· Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid

Color: According to product specification

· Odor: Characteristic

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|                                                                                     | (Contd. of pag                                                                                            |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| · Odor threshold:                                                                   | Not determined.                                                                                           |
| · pH-value:                                                                         | Not applicable.                                                                                           |
| Change in condition<br>Melting point/Melting range:<br>Boiling point/Boiling range: | Undetermined.<br>208°C                                                                                    |
| Flash point:                                                                        | 94 °C                                                                                                     |
| Flammability (solid, gaseous):                                                      | Not determined.                                                                                           |
| Ignition temperature:                                                               | 520 °C                                                                                                    |
| Decomposition temperature:                                                          | Not determined.                                                                                           |
| Auto igniting:                                                                      | Product is not selfigniting.                                                                              |
| Danger of explosion:                                                                | Product does not present an explosion hazard.<br>In use, may form flammable/explosive vapour-air mixture. |
| Explosion limits:<br>Lower:<br>Upper:                                               | 0.4 Vol %<br>0.0 Vol %                                                                                    |
| · Vapor pressure:                                                                   | Not applicable.                                                                                           |
| Density at 20 °C: Relative density Vapor density Evaporation rate                   | 1.10967 g/cm³<br>Not determined.<br>Not applicable.<br>Not applicable.                                    |
| · Solubility in / Miscibility with<br>Water:                                        | Insoluble.                                                                                                |
| · Partition coefficient (n-octanol/wate                                             | er): Not determined.                                                                                      |
| · Viscosity:<br>Dynamic:<br>Kinematic:                                              | Not applicable.<br>Not applicable.                                                                        |
| Solvent content:<br>VOC content:                                                    | 0.00 %<br>0.0 g/l / 0.00 lb/gl                                                                            |
| Solids content:<br>Other information                                                | 98.0 %<br>No further relevant information available.                                                      |

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

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## Safety Data Sheet acc. to OSHA HCS



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· Hazardous decomposition products: No dangerous decomposition products known.

## 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 2,200 mg/kg (mouse)

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

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

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  |
| 1333-86-4                                            | Carbon black                        | 2B |

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 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:

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

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

TIC



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## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

| UN-Number                                            |                 |
|------------------------------------------------------|-----------------|
| DOT, ADR, ADN, IMDG, IATA                            | Void            |
| UN proper shipping name<br>DOT, ADR, ADN, IMDG, IATA | Void            |
| Transport hazard class(es)                           |                 |
| DOT, ADR, ADN, IMDG, IATA                            |                 |
| Class                                                | Void            |
| Packing group                                        |                 |
| DOT, ADR, IMDG, IATA                                 | Void            |
| Environmental hazards:                               |                 |
| Marine pollutant:                                    | No              |
| Special precautions for user                         | Not applicable. |
| Transport in bulk according to Annex                 | II of           |
| MARPOL73/78 and the IBC Code                         | Not applicable. |
| UN ''Model Regulation'':                             | Void            |

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara

| · Section | 355 (extre | melv haza | rdous su | bstances): |  |
|-----------|------------|-----------|----------|------------|--|
|           |            |           |          |            |  |

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

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

· TSCA (Toxic Substances Control Act):

53862-89-8 POLYMERIC MDI

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

102-60-3 1,1',1",1"'-ethylenedinitrilotetrapropan-2-ol

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

1333-86-4 Carbon black

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#### · TSCA new (21st Century Act) (Substances not listed)

Hydroxy terminated poly(oxyalkylated)polyol / proprietary

53862-89-8 POLYMERIC MDI

· Proposition 65

· Chemicals known to cause cancer:

1333-86-4 Carbon black

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

#### · EPA (Environmental Protection Agency)

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

D, CBD

· TLV (Threshold Limit Value established by ACGIH)

1333-86-4 Carbon black

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

1333-86-4 Carbon black

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS07

GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

POLYMERIC MDI

4,4'-methylenediphenyl diisocyanate

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Hydroxy terminated poly(oxyalkylated)polyol / proprietary

· Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye 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.

H335 May cause respiratory irritation.

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

· Precautionary statements

*P201 Obtain special instructions before use.* 

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

*P264* Wash thoroughly after handling.

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(Contd. of page 9) P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 [In case of inadequate ventilation] wear respiratory protection. P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P330 Rinse mouth. P302+P352 If on skin: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. P308+P313 P321 Specific treatment (see on this label). P314 Get medical advice/attention if you feel unwell. P362+P364 Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. P333+P313 P337+P313 *If eye irritation persists: Get medical advice/attention.* If experiencing respiratory symptoms: Call a poison center/doctor. P342+P311 Wash contaminated clothing before reuse. P363 P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact: Rita Joiner (rjoiner@semproducts.com)
- · Date of preparation / last revision 03/14/2018 / 9
- · Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

 ${\it IATA: International Air Transport Association}$ 

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit

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REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

\* Data compared to the previous version altered.

HSA.