

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

1 Identification

[•] Product identifier

· Trade name: AdvanTech[™] Subfloor Adhesive

· Article number: No other identifiers

· Recommended use and restriction on use

· Recommended use: Adhesives

· Restrictions on use: Contact manufacturer

[•] Details of the supplier of the Safety Data Sheet

 Manufacturer/Supplier: Huber Engineered Woods LLC 10925 David Taylor Drive, Suite 300

Charlotte NC 28262 Tel 800-933-9220

• **Emergency telephone number:** CHEMTREC 1-800-424-9300 (US/Canada)

+01 703-527-3887 (International)

2 Hazard(s) identification

[•] Classification of the substance or mixture

Flam. Aerosol 1	H222	Extremely flammable aerosol.
Press. Gas	H280	Contains gas under pressure; may explode if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.

[·] Label elements

· GHS label elements

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



· Signal word: Danger

· Hazard-determining components of labeling:

diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate

· Hazard statements:

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

(Cont'd. on page 2)



Page: 2/13

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

Trade name: AdvanTech[™] Subfloor Adhesive (Cont'd. of page 1) 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. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. **Precautionary statements:** P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P251 Pressurized container: Do not pierce or burn, even after use. P260 Do not breathe mist/vapors/spray. P284 In case of inadequate ventilation wear respiratory protection. Do not spray on an open flame or other ignition source. P211 P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. P362+P364 P405 Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P410+P412 P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

 • Components:
 Trade Secret Flame Retardant
 5-15%

 • Acute Tox. 4, H302
 9016-87-9
 diphenylmethanediisocyanate,isomeres and homologues
 <10%</td>

 • Resp. Sens. 1, H334; STOT RE 2, H373
 • Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335
 <10%</td>



Page: 3/13

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

Trade name: AdvanTech™ Subfloor Adhesive

(C	ont'd. of page 2)
101-68-8 4,4'-methylenediphenyl diisocyanate	<10%
 Resp. Sens. 1, H334; STOT RE 2, H373 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 	
115-10-6 dimethyl ether	<10%
 Flam. Gas 1, H220 Press. Gas, H280 	
75-28-5 isobutane	<10%
 Flam. Gas 1, H220 Press. Gas, H280 	
74-98-6 propane	<10%
 Flam. Gas 1, H220 Press. Gas, H280 	
Additional information:	•
For the wording of the listed Hazard Statements refer to section 16	

For the wording of the listed Hazard Statements refer to section 16. For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

[·] Description of first aid measures

After inhalation:

Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. In case of unconsciousness place patient stably in side position for transportation. After skin contact: Immediately remove any clothing soiled by the product. Do not pull solidified product away from the skin. Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. · After eye contact: Immediately remove contact lenses if possible. Rinse opened eye for several minutes under running water. Then consult a doctor. • After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Asthma attacks Headache Breathing difficulty Allergic reactions Coughing Nausea Gastric or intestinal disorders when ingested. Irritant to skin and mucous membranes. Irritant to eyes. Dizziness Disorientation

(Cont'd. on page 4)



ENGINEERED Advantech

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

Trade name: AdvanTech™ Subfloor Adhesive

(Cont'd. of page 3)

Danger: Danger of impaired breathing. Danger of pulmonary edema. Danger of pneumonia. Danger of convulsion.
Indication of any immediate medical attention and special treatment needed: If medical advice is needed, have product container or label at hand. Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible. Treat skin and mucous membrane with antihistamine and corticoid preparations. In cases of irritation to the lungs, initial treatment with cortical steroid inhalants. Monitor circulation.

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

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. Water in flooding quantities.

For safety reasons unsuitable extinguishing agents: None.

Special hazards arising from the substance or mixture

Extremely flammable aerosol.

Danger of receptacles bursting because of high vapor pressure if heated.

During heating or in case of fire poisonous gases are produced.

Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information:

Eliminate all ignition sources if safe to do so. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Cool endangered receptacles with water spray.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures:

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

Isolate area and prevent access.

Keep people at a distance and stay upwind.

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

Methods and material for containment and cleaning up:

Allow to solidify. Pick up mechanically.

(Cont'd. on page 5)



acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

Trade name: AdvanTech™ Subfloor Adhesive

(Cont'd. of page 4)

Send for recovery or disposal in suitable receptacles.

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.

7 Handling and storage

[·] Handling

 Precautions for safe handling: Keep away from heat and direct sunlight.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Emergency cooling must be available in case of nearby fire.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

- Further information about storage conditions:
- Protect from heat and direct sunlight.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Specific end use(s): No relevant information available.

8 Exposure controls/personal protection

[·] Control parameters

with limit values that require monitoring at the workplace:
-methylenediphenyl diisocyanate
Ceiling limit value: 0.2 mg/m ³ , 0.02 ppm
Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit value: 0.2* mg/m ³ , 0.02* ppm *10-min





Trade name: AdvanTech™ Subfloor Adhesive

Page: 6/13

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

	(Cont'd. of pag
TLV (USA)	Long-term value: 0.051 mg/m ³ , 0.005 ppm
EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm Skin: S
EV (Canada)	Long-term value: 0.005 ppm
LMPE (Mexico)	Ceiling limit value: 0.02 ppm Long-term value: 0.005 ppm
115-10-6 dimet	
WEEL (USA) Long-term value: 1000 ppm	
EL (Canada)	Long-term value: 1000 ppm
75-28-5 isobuta	
TLV (USA)	Short-term value: 2370 mg/m ³ , 1000 ppm
EV (Canada)	Long-term value: 800 ppm
. ,	Long-term value: 1000 ppm
74-98-6 propan	
PEL (USA)	Long-term value: 1800 mg/m³, 1000 ppm
REL (USA)	Long-term value: 1800 mg/m³, 1000 ppm
TLV (USA)	refer to Appendix F in TLVs and BEIs book
EL (Canada)	Long-term value: 1000 ppm
EV (Canada)	Long-term value: 1000 ppm
()	Long-term value: 1000 ppm
 Personal prote General protec The usual proced The usual preca Keep away from Immediately rem Wash hands be Do not inhale ga Avoid contact w Clean skin thoro Engineering co Breathing equi Suitable respiration 	easures Provide adequate ventilation. ctive equipment: etive and hygienic measures: autionary measures for handling chemicals should be followed. a foodstuffs, beverages and feed. nove all soiled and contaminated clothing. fore breaks and at the end of work. ases / fumes / aerosols. ith the eyes and skin. bughly immediately after handling the product. bughly immediately after handling the product. bughty immediately after normation available. protective device recommended. pproved organic vapor respirator equipped with a dust/mist prefilter should be used.
	ive gloves
i ne giove mate	rial has to be impermeable and resistant to the product/ the substance/ the preparation. (Cont'd. on pag



acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

Trade name: AdvanTech™ Subfloor Adhesive

(Cont'd. of page 6)

• Eye protection:



Safety glasses

· Body protection: Protective work clothing

- Limitation and supervision of exposure into the environment No relevant information available.
- · Risk management measures See Section 7 for additional information.

Information on basic physical a	and chemical properties
Appearance:	
Form:	Aerosol
Color:	Blue
Odor:	Light
	Petroleum-like
Odor threshold:	Not determined.
pH-value:	Not determined.
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	-42 °C (-44 °F) (propellant)
Flash point:	-104 °C (-155 °F) (propellant)
Flammability (solid, gaseous):	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product is not explosive. However, formation of explosive a vapor mixtures are possible.
Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	1.0 g/cm ³ (8.6 lbs/gal)
Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not applicable.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	





Page: 8/13

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

Trade name: AdvanTech™ Subfloor Adhesive

(Cont'd. of page 7)

Viscosity Dynamic: Kinematic: VOC content: VOC (California):

Not determined. Not determined. 15.0% 155 g/l No relevant information available.

Other information

10 Stability and reactivity

• **Reactivity:** No relevant information available.

- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.

Possibility of hazardous reactions:

Extremely flammable aerosol.

Develops readily flammable gases / fumes.

Reacts with oxidizing agents.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Contact with acids releases toxic gases.

Toxic fumes may be released if heated above the decomposition point.

Danger of receptacles bursting because of high vapor pressure if heated.

Conditions to avoid:

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

· Incompatible materials: No relevant information available.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide Hydrogen cyanide (prussic acid)

Phosphorus oxides (e.g. P2O5)

Information on toxicological effects Acute toxicity:	
LD/LC50 values that are relevant for classification:	
101-68-8 4,4'-methylenediphenyl diisocyanate	
Oral LD50 2200 mg/kg (mouse)	
Primary irritant effect:	
On the skin: Irritant to skin and mucous membranes.	
On the eye: Irritating effect.	
Sensitization:	
Sensitization possible through inhalation.	
Sensitization possible through skin contact.	
Sensitization possible through skin contact.	(Cont'd on r

(Cont'd. on page 9)



Page: 9/13

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

Trade name: AdvanTech™ Subfloor Adhesive

(Cont'd. of page 8)

3

3

• Subacute to chronic toxicity: Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

· IARC (International Agency for Research on Cancer):

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

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

NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Inhalation.

Skin contact.

Eye contact.

• Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes, respiratory system and skin.

· Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

• Carcinogenicity: Based on available data, the classification criteria are not met.

• Reproductive toxicity: Based on available data, the classification criteria are not met.

• STOT-single exposure: May cause respiratory irritation.

• STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

[·] Toxicity

· Aquatic toxicity No relevant information available.

Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

• Mobility in soil: No relevant information available.

Additional ecological information

· General notes:

Avoid transfer into the environment.

Harmful to aquatic organisms

This statement was deduced from products with a similar structure or composition.

Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

• Other adverse effects: No relevant information available.

(Cont'd. on page 10)



acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

Trade name: AdvanTech[™] Subfloor Adhesive

(Cont'd. of page 9)

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

4 Transport information	
[·] UN-Number [·] DOT, ADR, IMDG, IATA	UN1950
[·] UN proper shipping name	
Limited Quantity for package gal).	es less than 30 kg (66 lb) and inner packagings less than 1 L (0.
· DOT · ADR · IMDG · IATA	Aerosols 1950 AEROSOLS AEROSOLS Aerosols, flammable
[·] Transport hazard class(es)	
·DOT	
Class	2.1
· Label	2.1
ADR	
· Class	2 5F Gases
	(Cont'd. on page 11





Page: 11/13

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

(Cont'd. of page 10)
2.1
2.1
2.1
This UN-number is not assigned a packing group.
No
Warning: Gases
-
F-D,S-U
l of
Not applicable.

 Safety, health and environmental regulations/legislation spe mixture 	ecific for the substance
· United States (USA) · SARA	
· Section 355 (extremely hazardous substances):	
None of the ingredients are listed.	
· Section 313 (Specific toxic chemical listings):	
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	
101-68-8 4,4'-methylenediphenyl diisocyanate	
TSCA (Toxic Substances Control Act)	
All ingredients are listed.	
· Proposition 65 (California)	
· Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	



Page: 12/13

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

Trade name: AdvanTech™ Subfloor Adhesive

(Cont'd. of page 11)

3

Carcinogenic categories
 EPA (Environmental Protection Agency):

 9016-87-9
 diphenylmethanediisocyanate, isomeres and homologues
 CBD

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

 IARC (International Agency for Research on Cancer):

 9016-87-9
 diphenylmethanediisocyanate, isomeres and homologues
 3

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

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

None of the ingredients are listed.

· Canada

· Canadian substance listings

· Canadian Domestic Substances List (DSL):

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%):

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

Canadian Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

· 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.

· Date of preparation / last revision 02/03/2016 / -

• Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) 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** Flam. Gas 1: Flammable gases, Hazard Category 1 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1 Press. Gas: Gases under pressure: Compressed gas Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

(Cont'd. on page 13)



Page: 13/13

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 02/03/2016

Revision: 02/03/2016

Trade name: AdvanTech™ Subfloor Adhesive

(Cont'd. of page 12)

Sources
Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers
SDS Prepared by:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com