

MATERIAL SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Spectrum Adhesives Corporate 5611 Universal Drive, Memphis, TN 38118

EMERGENCY PHONE: 800-535-5053

Corporate: 901-795-1943

Customer Service: 800-454-4583

Product Name/Code: CP-0601

Issue Date: 07-05-2010

Section 2: HAZARDS IDENTIFICATION

HMIS Rating:

Health - 1 Fire - 1 Reactivity - 0 PP - B

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

EMERGENCY OVERVIEW

Appearance/Odor: White, pine solid with uncharacteristic odor.

WARNING

May cause sensitization by inhalation and skin contact.

Contains isocyanates. See information supplied by the manufacturer.

Potential Health Effects: See Section 11 for more information

Likely Routes of Exposure: Eye contact, skin contact, inhalation

Eye: See Sections 4 and 11

Skin: Sensitization possible through skin contact. See Sections 4 and 11

Ingestion: See Section 4

Inhalation: Sensitization possible through inhalation. See Sections 4 and 11

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

Potential Environmental Effects: See Section 12 for more information)

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	% by Wt.
Diphenylmethane-4,4'-diisocyanate	101-68-8	<2.5%

RTECS: NQ 9350000 Xn; R20-36/37/38-42/43

Section 4: FIRST AID MEASURES

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

Skin Contact: After contact with the molten product, cool rapidly with cold water.

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

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

Ingestion: After swallowing, seek medical treatment.

Note to Physicians:

The following symptoms may occur:

Asthma attacks

Allergic reactions

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable Extinguishing Media: Not available

Special hazards caused by the material, its products of combustion or resulting gases:

Nitrogen oxides (NO_x)

Traces:

Hydrogen cyanide (HCN)

Protective equipment: Wear self-contained respiratory protective device.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental Precautions: This material is a water pollutant. Do not let spilled or leaking material enter Waterways, sewers/surface or ground water.

Methods for Containment: See methods for clean-up.

Methods for Clean-Up: Ensure adequate ventilation. Pick up mechanically.

Other Information: Not available

Section 7: HANDLING AND STORAGE

Handling

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fire: No special measures required.

Storage

Requirement to be met by storerooms and receptacles: Keep container tightly closed.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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

ACGIH TLV 0.005 ppm

NIOSH REL Short-term value: C 0.2* mg/m³, C 0.02* ppm

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

*10-min

OSHA PEL Short-term value: C 0.2 mg/m³, C 0.02 ppm

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

Engineering Controls: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate. If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

Breathing equipment:

Use suitable respiratory protective device only when aerosol or mist is formed

Filter A/P2

Personal Protection: Where air contaminants can exceed acceptable criteria, use NIOSH (42 CFR Part 84) approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection. Goggles recommended during refilling. Wear heat resistant gloves. Material of gloves should be leather. Penetration time of glove material is not determined.

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.

Do not inhale gases/fumes/aerosols.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Color: White

Pine

Odor: Uncharacteristic

Odor Threshold: Not available.

Physical State: Solid

pH: Not available

Freezing Point: Not available

Boiling Point/Boiling range: Undetermined

Fusion temperature/range: 70°C (158°F) (ring+ball)

Flash Point: Not applicable

Ignition temperature: >300°C (>572°F)

Evaporation Rate: Not available.

Density @ 20°C (68°F): 1.1 g/cm³

Specific Gravity: Not available

Solubility in/Miscibility with

Water: Insoluble

Organic solvents: 0.0%

Partition Coefficient (n-octanol/water): Not available

Auto-ignition Temperature: Product is not self-igniting

Danger of explosion: Product does not present an explosion hazard.

Section 10: STABILITY AND REACTIVITY

Conditions to Avoid: No decomposition if used according to specifications.

Incompatible Materials: See additional information

Hazardous Decomposition Products: Isocyanate.

Possibility of Hazardous Reactions: No dangerous reactions known.

Additional information:

When hot melt adhesives are melted and applied, vapors are set free and an unpleasant odor can occur, even if the recommended working temperature has been observed. Moreover if the prescribed working temperature is exceeded over a longer period, harmful decomposition products can develop. Precautions should be taken to eliminate the vapors, e.g. by using a suitable ventilation system.

Therefore measures for the elimination of the vapors have to be taken, e.g. by means of an appropriate ventilation/exhaust device.

Section 11: TOXICOLOGY INFORMATION

Acute toxicity:

LD/LC50 values that are relevant for classification:

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

Oral LD50 15000 mg/kg (rat)

Primary irritant effect:

On the skin: No irritant effect

On the eye: No 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

Section 12: ECOLOGICAL INFORMATION

Information about elimination (persistence and degradability):

Other information: The product is difficultly biodegradable.

General notes: Generally not hazardous for water.

Section 13: DISPOSAL CONSIDERATIONS

Recommendation:

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Small quantities can be disposed of with household waste.

Unclean packaging recommendation:

Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning.

Section 14: TRANSPORTATION INFORMATION

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

Not applicable

Maritime transport IMDG:

Marine pollutant: No

Section 15: REGULATORY INFORMATION

TSCA: All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

Sara Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

All ingredients are listed

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity:

None of the ingredients is listed

Carcinogenicity categories

EPA (Environmental Protection Agency)

101-68-8 diphenylmethane-4,4'-diisocyanate CBD;D

IARC (International Agency for Research on cancer)

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

NTP (National Toxicology Program)

None of the ingredients is listed

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

MAK (German Maximum Workplace Concentration)
101-68-8 diphenylmethane-4,4'-diisocyanate 3

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

OSHA-Ca(Occupational Safety and Health Administration)
None of the ingredients is listed

Product related hazard information:

The product has been classified and marked in accordance with directives on hazardous materials.

Hazard Symbols:

Xn Harmful

Hazard-determining components of labeling:

Diphenylmethane-4,4'-diisocyanate

Risk phrases:

My cause sensitization by inhalation and skin contact

Special labeling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer.

National regulations:

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

WHMIS: Canadian Workplace Hazardous Material Information System
Not available

Section 16: OTHER INFORMATION

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