

## Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing Date 08/25/2009

Revision Number 1

Reviewed on 03/04/2009

### 1 Identification of substance

· **Product details**

· **Trade name:** 13780 Gunther Premier Plus

· **Article number:** 13780

· **Manufacturer/Supplier:**

Royal Adhesives And Sealants, LLC  
2001 W. Washington Street  
South Bend IN 46628-2023

· **Information department:** Environment protection department.

· **Emergency information:**






ChemTrec: UNITED STATES 1(800)424-9300 INTERNATIONAL 202-483-7616

### 2 Composition/Data on components

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

1305-78-8	calcium oxide	2.5%
	Danger:  3.3/1	
64742-47-8	Distillates (petroleum), hydrotreated light	2 - 5%
	Danger:  3.10/1	
	Warning:  2.6/3	
101-68-8	4,4'-methylenediphenyl diisocyanate	1.0%
	Danger:  3.4.R/1, 3.2/2, 3.3/2A, 3.4.S/1	
	Warning:  3.8/3	

· **Additional information:** For the wording of the listed risk phrases refer to section 15.

### 3 Hazards identification

· **Hazard description:**

Harmful

· **Information pertaining to particular dangers for man and environment:**

May cause sensitisation by inhalation and skin contact.

Contains isocyanates. See information supplied by the manufacturer.

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 2  
Reactivity = 0

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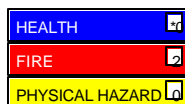
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**· HMIS-ratings (scale 0 - 4)**


Health = \*0

Fire = 2

Physical Hazard = 0

**· GHS label elements**
**Health hazard Danger**

3.4/1 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

3.4/1 - May cause an allergic skin reaction.

**Warning**

2.6/4 - Combustible liquid.

**· Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

In case of inadequate ventilation wear respiratory protection.

**· Response:**

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Specific treatment (see label).

If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Wash contaminated clothing before reuse.

 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

**· Storage:**

Store in a well-ventilated place. Keep cool.

**· Disposal:**

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

### 4 First aid measures

**· 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.

Call a doctor immediately.

Overexposure, remove to fresh air and seek medical attention.

**· After skin contact: Immediately wash with water and soap and rinse thoroughly.**
**· After eye contact: Rinse opened eye for several minutes under running water.**
**· After swallowing: Seek medical treatment.**
**· Information for doctor:**
**· The following symptoms may occur:**

Dizziness

Headache

Nausea

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### 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** Protective clothing and respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:**  
Ensure adequate ventilation  
Keep away from ignition sources
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste in accordance with federal state and local regulations.  
Pick up mechanically

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Provide ventilation for receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in dry conditions  
Keep receptacle tightly sealed

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

1305-78-8 calcium oxide ( £ 2.5%)

PEL 5 mg/m<sup>3</sup>REL 2 mg/m<sup>3</sup>TLV 2 mg/m<sup>3</sup>

101-68-8 4,4'-methylenediphenyl diisocyanate ( £ 2.5%)

PEL Short-term value: C 0.2 mg/m<sup>3</sup>, C 0.02 ppmREL Short-term value: C 0.2\* mg/m<sup>3</sup>, C 0.02\* ppmLong-term value: 0.05 mg/m<sup>3</sup>, 0.005 ppm

\*10-min

TLV 0.051 mg/m<sup>3</sup>, 0.005 ppm

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

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· **Personal protective equipment (see listings below)**

· **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.

· **Breathing equipment:**

In the absence of adequate ventilation, NIOSH-certified respiratory protection for organic vapor should be used as necessary. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

Protective gloves

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

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

· **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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses with side shields.

· **Body protection:** Protective work clothing

### 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Pasty
<b>Color:</b>	White
<b>Odor:</b>	Characteristic

· **Change in condition**

<b>Melting point:</b>	Undetermined.
<b>Boiling point:</b>	190°C (374°F)

<b>Flash point:</b>	70°C (158°F)
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<b>Auto igniting:</b>	Product is not selfigniting.
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<b>Danger of explosion:</b>	Product does not present an explosion hazard.
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<b>Specific gravity at 20°C (68°F):</b>	1.16 g/cm <sup>3</sup>
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· **Solubility in / Miscibility with**

<b>Water:</b>	Insoluble.
	Insoluble

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· <b>Solvent content:</b>	
<b>Organic solvents:</b>	2 - 5 %
· <b>Solids content:</b>	95 - 98 %
· <b>Additional information:</b>	VOC: < 10G/L (<.02LBS/GAL) SCAQMD: <10G/L WEIGHT PER GALLON: 9.65

\*

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions**  
Reacts with alcohols amines, aqueous acids, and alkalis.  
Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapor overpressure.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

### 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

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

Oral	LD50	2200 mg/kg (mouse)
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- **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  
Irritant

### 12 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.

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### 13 Disposal considerations

· **Product:**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **DOT regulations:**

· **Hazard class:** -

· **Land transport ADR/RID (cross-border):**

· **ADR/RID class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

· **UN "Model Regulation":** -

### 15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

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

· **TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

· **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.

· **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from DSL requirements.

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### · Cancerogenity categories

#### · EPA (Environmental Protection Agency)

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

#### · IARC (International Agency for Research on Cancer)

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

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · TLV (Threshold Limit Value established by ACGIH)

None of the ingredients listed.

#### · MAK (German Maximum Workplace Concentration)

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

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

None of the ingredients is listed.

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

None of the ingredients is listed.

### · Product related hazard informations:

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

### · Hazard-determining components of labelling:

4,4'-methylenediphenyl diisocyanate

### · Risk phrases:

May cause sensitisation 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.

## 16 Other information

Although the information and recommendations set forth in this MSDS are presented in good faith and are believed to be correct as of the date of this MSDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the MSDS.

· Department issuing MSDS: Environment protection department.

### · Abbreviations and acronyms:

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

RID: Reglement internationale concernent le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

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*DOT: US Department of Transportation**IATA: International Air Transport Association**IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)**ICAO: International Civil Aviation Organization**ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)**GHS: Globally Harmonized System of Classification and Labelling of Chemicals**ACGIH: American Conference of Governmental Industrial Hygienists**NFPA: National Fire Protection Association (USA)**HMIS: Hazardous Materials Identification System (USA)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent*

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