according to Regulation (EC) No. 453/2010



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### **HOOF-TITE PART A**

SECTION 1 : Identification of the sub	stance/preparation and of the company/undertaking
1.1. Product identifier	
Product name	: HOOF-TITE PART A
UFI	: 6AX2-V02V-R00J-VU77
1.2. Relevant identified uses of the su	bstance or mixture and uses advised against
Relevant identified uses	: Polyurethane resin
1.3. Details of the supplier of the safe	ty data sheet
<b>Manufacturer</b> Chem Select 10980 Arrow Route #106 Rancho Cucamonga, CA 91730 <b>Emergency Phone</b>	: (800) 985-2012
1.4. Emergency telephone number	
CHEMTREC (USA & Canada): (800) 424 or (703) 527-3887 CCN# 2820	4-9300
SECTION 2: Hazards identification	
2.1. Classification of the substance or	r mixture
Classification according to Regulation	n (EC) No 1272/2008 [CLP]
Health	: Acute Toxicity (Inhalation), Category 4 Skin Irritation, Category 2 Eye Irritation, Category 2A Respiratory Sensitization, Category 1 Skin Sensitization, Category 1 Carcinogenicity, Category 2 Target Organ Toxicity (Single exposure), Category 3 Target Organ Toxicity (Repeated exposure), Category 2
2.2. Label elements	
Contains 4,4'-Methylenediphenyl diisoc	yanate and Methylenediphenyl diisocyanate isomers.
Classification according to Regulation	
Hazard pictogram(s)	: Health hazard Health mark
Signal Word	: DANGER
Hazard statement(s)	: H332: Harmful if inhaled. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eve irritation.

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

H335: May cause respiratory irritation.

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Precautionary statement(s)	
Prevention	: P280: Wear protective gloves/protective clothing/eye protection/face protection. P285: In case of inadequate ventilation wear respiratory protection.
Response	: P302+P352: IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	: P403+P233: Store in a well-ventilated place. Keep container tightly closed.
Disposal	: P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3. Other hazards	
Other hazards	<ul> <li>Contains diisocyanates. Persons previously sensitized to isocyanates may develop cross-sensitization reaction to other isocyanates.</li> </ul>

### SECTION 3: Composition / information on ingredients

#### 3.1. Substances

### Not Applicable

#### 3.2. Mixtures

Chemical Name	CAS	EINECS No.	% w/w	Classification according to Regulation (EC) No 1272/2008 [CLP]
4,4'-Diphenylmethane diisocyanate	101-68-8	202-966-0	50 - 55	H332; H315; H319; H334; H317; H335; H351; H373
Benzene, 1,1'-methylenebis[isocyanato-, homopolymer	39310-05-9	609-645-8	16 - 19	H315; H317; H319; H334; H335
Benzene, 1,1'-methylenebis[isocyanato-	26447-40-5	247-714-0	5 - 6	H332; H315; H319; H334; H317; H335; H351; H373
Phosphoric Acid, Triethyl Ester	78-40-0	201-114-5	1 - 4	H302; H319

#### For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures
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4.1. Description of first aid measures		
Following eyes	: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical advice/attention.	
Following skin	: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical advice/attention if irritation or rash develops. Wash clothing before reuse.	
Following ingestion	: If swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Provided the patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person.	
Following inhalation	<ul> <li>Remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get immediate medical attention.</li> </ul>	
4.2. Most important symptoms and effects, both acute and delayed		
Eyes	: Causes serious eye irritation.	
Skin	: Causes skin irritation. May cause an allergic skin reaction.	

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Inhalation	: Harmful if inhaled. May cause an allergic respiratory reaction.	
4.3. Indication of any immediate med	ical attention and special treatment needed	
Notes to physician	: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.	
SECTION 5: Fire fighting measures		
5.1. Extinguishing media		
Extinguishing media	: Water spray (fog), carbon dioxide, dry chemical, or alcohol-resistant foam. Do not use water jet.	
5.2. Special hazards arising from the	substance or mixture	
Hazardous combustion products	: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, and phosphorus oxides.	
5.3. Advice for firefighters		
Fire fighting procedures	: Cool fire exposed containers with water spray. Remove containers from the fire area if possible. Do not release runoff from fire control methods to sewers or waterways.	
Fire fighting equipment	: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires.	
SECTION 6: Accidental release meas	sures	
6.1. Personal precautions, protective	equipment and emergency procedures	
General procedures	: Refer to section 8 of SDS for personal protection details. All emergency and non- emergency responders must have recommended PPE prior to addressing any release of material. In addition, ensure adequate ventillation of area, and/or use personal respirators with vapor cartridges for large releases or a release in a confined location. If necessary, review local/regional release reporting requirements only after the release has been adequately contained.	
Special protective equipment	: None needed under normal conditions of use.	
Release notes	<ul> <li>Composition and extent of any spill should be evaluated against local regulations and reported to the proper agencies, if necessary.</li> </ul>	
6.2. Environmental precautions		
Water spill	: Do not discharge into drains, surface waters, or groundwater.	
6.3. Methods and material for contain	iment and cleaning up	
Spill and Leak Procedures	: Evacuate unnecessary personnel from the spill area. Wear necessary personal protective equipment (PPE) as specified in the SDS or the site emergency response plan. Eliminate all sources of ignition. Ensure adequate ventilation. Dike and contain spill. Prevent product from entering drains or waterways. Absorb with non-combustible material (such as sand, earth, diatomaceous earth, or vermiculite) and transfer to a container for disposal according to local/national regulations.	
6.4. Reference to other sections		
Reference to other sections	: Section 8 and Section 13	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		

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General procedures	: Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Avoid breathing vapor over open containers. Avoid open container exposure to damp air. Avoid breathing aerosols, mists, and vapors.
Handling	: Use appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.
Storage	: Store in a dry and well-ventilated place, away from excessive heat in the original or similar container. Avoid sources of ignition and incompatible materials. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials. Avoid unnecessary contact.
7.2. Conditions for safe storage, i	including any incompatibilities
Storage temperature	: 65-80°F (18-27°C)
Shelf life	: 3 months from date of shipment under manufacturers recommended storage conditions.
7.3. Specific end use(s)	
Specific end use(s)	: Polyurethane resin for professional/industrial applications
SECTION 8: Exposure controls /	personal protection
8.1. Control parameters	
Control parameters	: No data available
8.2. Exposure controls	
Engineering controls	: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Eye/face protection	: Safety goggles or glasses are recommended. Plastic face shields should be used for complete face protection to protect against possible splashing or spraying of material. ANSI Z87.1, EN 166, or approved equivalent.
Skin protection	: Chemical-resistant gloves and chemical goggles, face-shield, and synthetic apron or
	coveralls should be used to prevent contact with eyes, skin, or clothing. Select gloves in accordance with EU standard EN 374 and eye protection in accordance with EU standard EN 166.
Respiratory protection	accordance with EU standard EN 374 and eye protection in accordance with EU
Respiratory protection Protective clothing	<ul> <li>accordance with EU standard EN 374 and eye protection in accordance with EU standard EN 166.</li> <li>Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Select in accordance with EU Standard EN 140</li> </ul>
	<ul> <li>accordance with EU standard EN 374 and eye protection in accordance with EU standard EN 166.</li> <li>Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Select in accordance with EU Standard EN 140 or EN 136, or other applicable regulations and good industrial hygene practice.</li> </ul>

### 9.1. Information on basic physical and chemical properties

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Colour	: Pale yellow
Odour	: Slightly musty
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 126.7°C Pensky-Martens CC
Flammability	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Specific gravity	: 1.151 (water=1) at 25°C
Solubility in water	: Reacts with water
Partition coefficient: n-octanol/water	: N/A
Auto-ignition temperature	: No data available
Decomposition temperature	: < 300°C
Viscosity #1	: 1480 Centipoise at 25°C
Viscosity #2	: 1285 Centistokes at 25°C
9.2. Other information	
(VOC)	: < 0.1 g/I Calculated. Theoretical VOC minus water and exempt solvents.
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Reactivity	: Hazardous reactions will not occur under normal transport or storage conditions.
10.2. Chemical stability	
Chemical stability	: This product is stable under normal ambient conditions of temperature and pressure.
10.3. Possibility of hazardous reaction	S
Possibility of hazardous reactions	: Reaction with water produces carbon dioxide. Exothermic reaction with materials containing active hydrogen groups. The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents. MDI is insoluble with, and heavier than water and sinks to the bottom but reacts slowly at the interface. A solid water-insoluble layer of polyurea is formed at the interface by liberating carbon dioxide gas.
10.4. Conditions to avoid	
Conditions to avoid	: High temperatures, moisture, and freezing conditions.
10.5. Incompatible materials	
Incompatible materials	: Water, amines, acids, bases, and strong oxidizing agents.
10.6. Hazardous decomposition produce	cts
Hazardous decomposition products	: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, and phosphorus oxides.

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#### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute					
Chemical Name		Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>	
4,4'-Diphenylmethane diisocyanate		> 2000 mg/kg Rat	> 9400 mg/kg Rabbit	2.24 mg/l Rat (1 h, dust/mist)	
Benzene, 1,1'-methylenebis[isocyanato-, homopolymer		No data available	No data available	No data available	
Benzene, 1,1'-methylenebis[isocyanato-		> 2000 mg/kg Rat	> 9400 mg/kg Rabbit	2.24 mg/l Rat (1 h, dust/mist)	
Phosphoric Acid, Triethyl Ester		1600 mg/kg Rat	> 20000 mg/kg Rabbit	8817 mg/l Rat (4 h)	
Skin corrosion/irritation	: Causes skin irritation.				
Serious eye damage/irritation	: Causes serious eye irritation.				
<b>Respiratory or skin sensitisation</b> : May cause sensitization by inhalation and skin contact.					
Germ cell mutagenicity : No data available					

Carcinogenicity

Chemical name		IARC		
4,4'-Diphenylmethane diisocyanate		3		
Notes (Carcinogen Category 2) by the EU CLP.	: 4,4'-Methylenediphenyl diisocyanate is classified as "Suspected of causing cancer"			
Reproductive toxicity	: None Expected			
STOT-single exposure	: May cause respiratory irritation.			
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.			
Aspiration Hazard	: No data available	: No data available		
11.2. Information on other hazards				
SECTION 12: Ecological information				
12.1. Toxicity				
Toxicity		available for this product. Refer to Section 6 for I release and Section 15 for regulatory reporting		
Aquatic toxicity (acute)				
96-hour LC <sub>50</sub>	: > 1000 mg/l Brachydanio rerio			
Notes	: This information is based on 4,4'-Diphenylmethane diisocyanate.			
12.2. Persistence and degradability				
Persistence and degradability	: This product is not stable in water and will hydrolyze sowly. Therefore it is poorly biodegradable.			
12.3. Bioaccumulative potential				

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Bioaccumulative potential	: No evidence of bioaccumulation of 4,4'-Diphenylmethane	e diisocyanate	e or its isome	ers.
12.4. Mobility in soil				
Mobility in soil	: Due to rapid reaction in water, material will not evaporate into the atmosphere from the water surface and adsorption to solid soil phase is not expected.			
2.5. Results of PBT and vPvB assess	sment			
Results of PBT and vPvB assessmen	<b>It</b> : This product is not a PBT or vPvB.			
2.6. Endocrine disrupting properties				
Endocrine disrupting properties	: No data available			
SECTION 12: Ecological information				
Environmental data	: No data available			
SECTION 13: Disposal consideration	S			
13.1. Waste treatment methods				
Disposal method	: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protections and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.			
Waste codes	: EU Waste Code (as sold): 080409 Waste Adhesives and Sealants containing organic solvents or other dangerous substances.			
SECTION 14: Transport information				
4.1-14.6: Not Regulated				
4.7. Maritime transport in bulk accor	ding to IMO instruments			
Transport in bulk	: This product is not intended to be transported in bulk.			
SECTION 15: Regulatory information				
15.1. Safety, health and environmenta	I regulations/legislation specific for the substance or mi	xture		
	stricted under REACH Annex XVII			
eference Entry Number for individual co		CAS	EINECS	Entry
eference Entry Number for individual co		CAS	EINECS No.	Entry No.
eference Entry Number for individual co				No.
Reference Entry Number for individual co Chemical Name 4,4'-Diphenylmethane diisocyanate	onditions of restriction.		<b>No.</b> 202-966-0	Entry No. 56, 74
Restricted Substance - Chemicals Res Reference Entry Number for individual co Chemical Name 4,4'-Diphenylmethane diisocyanate Benzene, 1,1'-methylenebis[isocyanato- RoHS	onditions of restriction.	101-68-8 26447-40-5 stances listed	No. 202-966-0 247-714-0 . Therefore,	No. 56, 7 56 the

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15.2. Chemical safety assessment	
Chemical safety assessment	: No data available
SECTION 16: Other information	
Relevant H-statements (number and full text)	<ul> <li>H302: Harmful if swallowed.</li> <li>H315: Causes skin irritation.</li> <li>H317: May cause an allergic skin reaction.</li> <li>H319: Causes serious eye irritation.</li> <li>H332: Harmful if inhaled.</li> <li>H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335: May cause respiratory irritation.</li> <li>H351: Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).</li> <li>H373: May cause damage to organs ( state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure (state route of exposure if it is conclusively proven that no other routes of exposure (state route of exposure if it is conclusively proven that no other routes of exposure (state route of exposure if it is conclusively proven that no other routes of exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).</li> </ul>
Reason for issue	: Revision
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