PolyOne

MATERIAL SAFETY DATA SHEET CSI-HS287

Version Number 1.2 Revision Date 06/24/2008

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 8155 Cobb Center Drive, Kennesaw, GA 30152

Telephone Emergency telephone	:	Product Stewardship (770) 590-3500 x.3563 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	CSI-HS287
Product code	:	FO20010672
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Azodicarbonamide	123-77-3	1 - 5
Diphenyloxide-4,4'-disulfohydrazide	80-51-3	1 - 5
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Calcium carbonate	1317-65-3	10 - 30

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Skin contact, Ingestion	
Acute exposure		
Inhalation	: Inhalation of airborne droplets may cause irritation of the respiratory tract.	
Ingestion	: May be harmful if swallowed.	
Eyes	: May cause eye/skin irritation.	
Skin	: Experience shows no unusual dermatitis hazard from routine handling.	
Chronic exposure	: Refer to Section 11 for Toxicological Information.	



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Medical Conditions Aggravated by Exposure:	: None known.	
	4. FIRST AID MEASURES	
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases doubt seek medical advice.	; of
Ingestion	: Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.	
Eyes	: Rinse immediately with plenty of water for at least 15 minutes. If a irritation persists, seek medical attention.	eye
Skin	: Wash off with soap and plenty of water. If skin irritation persists seek medical attention.	
	5. FIRE-FIGHTING MEASURES	
Flash point	: No data available	
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media	 No data available No data available Not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. 	
Special Fire Fighting Procedures	: Fullface self-contained breathing apparatus (SCBA) used in positiv pressure mode should be worn to prevent inhalation of airborne	/e
Unusual Fire/Explosion Hazards	 contaminants. May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) und fire conditions. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke ar all possible. 	
	6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.	
Environmental precautions	: The product should not be allowed to enter drains, water courses on the soil. Should not be released into the environment.	r
Methods for cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSI for proper disposal methods.	DS



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		7. HANDLING AND STORAGE			
Handling : Heat only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials. Stemperature Keneret increase based tights also be existent in the surface of the					
Storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.					
8. EX	POSUI	RE CONTROLS/PERSONAL PROTECTION			
Respiratory protection	:	No personal respiratory protective equipment normally required.			
Eye/Face Protection	:	Safety glasses with side-shields			
Hand protection	:	Protective gloves			
Skin and body protection	:	Long sleeved clothing			
Additional Protective Measures	:	Safety shoes			
General Hygiene Considerations	:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			
Engineering measures	:	Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.			

Components	Value	Exposure time	Exposure type	List:
Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average		MX OEL
		(TWA):		
	20 mg/m3	Short Term Exposure Limit		MX OEL
		(STEL):		
Diphenyloxide-4,4'-	0.1 mg/m3	Time Weighted Average	Inhalable fraction.	ACGIH
disulfohydrazide		(TWA):		
Silica, amorphous,	0.8 mg/m3	Time Weighted Average		Z3
fumed, crystal-free		(TWA):		
	10 mg/m3	Time Weighted Average	Inhalable particulate.	MX OEL
		(TWA):		
	3 mg/m3	Time Weighted Average	Respirable dust.	MX OEL
		(TWA):		

9. PHYSICAL AND CHEMICAL PROPERTIES

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Form	: liquid
Appearance	: Viscous, liquid
Color	: BLUE
Odour	: Very faint
Melting point/range	: Not applicable
Boiling Point:	: Not applicable
Water solubility	: Immiscible

Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pH Not established
Not determined
Not applicable
Not determined
Not determined
Not applicable

10. STABILITY AND REACTIVITY					
Stability : Stable.					
Hazardous Polymerization	: Will not occur.				
Conditions to avoid	: Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.				
Incompatible Materials	: Incompatible with strong acids and oxidizing agents., Avoid contact with acetal homopolymers and acetal copolymers during processing.				
Hazardous decomposition products	 Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), hydrogen chloride (HCl), other hazardous materials, and smoke are all possible. Prolonged heating may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F), and within 5 minutes at 232 °C (450 °F). 				

11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
123-77-3	Azodicarbonamide	sensitizer	Respiratory system.
80-51-3	Diphenyloxide-4,4'- disulfohydrazide	Irritant	Eyes, Skin.
112945-52-5	Silica, amorphous, fumed, crystal-free	Irritant	Eyes, Respiratory system.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species

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123-77-3	Azodicarbonamide	LC50	200 mg/l	rat
		Oral LD50	> 6,400 mg/kg	rat
		Dermal LD50	> 2,000 mg/kg	rabbit
112945-52-5	Silica, amorphous, fumed,	Oral LD50	3,160 mg/kg	rat
	crystal-free			

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No. Chemical Name OSHA IARC NTP				
	CAS-No.	Chemical Name	OSHA	

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

2 - The component is reasonably anticipated to be a human carcinogen.

Additional Health Hazard Information:

Azodicarbonamide 123-77-3 Sensitizer to the respiratory system with repeated minimal inhalation. While no chronic health problems have been identified, individuals with respiratory problems should avoid inhalation exposure to this material.

Persistence and degradability	: Not readily biodegradable.		
reisistence and degradability	. Not readily blodegradable.		
Environmental Toxicity	: Environmental toxicity has not been established for this mixture as a whole.		
Bioaccumulation Potential	: No data available		
Additional advice	: No data available		
13. DISPOSAL CONSIDERATIONS			
Product	: Where possible recycling is preferred to disposal or incineration. Th generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.		
Contaminated packaging	: Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.		
	14. TRANSPORT INFORMATION		

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US. EPA CERCLA Hazardous Substances (40 CFR 302)				
SADA Title III Section 202 Februare la Herendeus Substance				
SARA Title III Section 302 Extremely Hazardous Substance				
Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation				
SARA Title III Section 313 Toxic Chemicals:				
Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation				
Canadian Regulations:				
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CAS-No. 147-14-8 112945-52-5 DSL	:	All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.		
National Inventories:				
Australia AICS	:	Not determined		
China IECS	:	Not determined		
Europe EINECS	:	Listed		
Japan ENCS	:	Not determined		
Korea KECI	:	Not determined		
Philippines PICCS	:	Not determined		
16. OTHER INFORMATION				

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.