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Dynacast White Part A

DATE PREPARED: 4/20/2005
 LAST REVISION: 1/5/2010

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: Kindt-Collins Company LLC
 12651 Elmwood Ave
 Cleveland, OH 44111

INFORMATION PHONE: (216) 252-4122
EMERGENCY PHONE: (800) 424-9300
 (Chemtrec)

PRODUCT NAME: Dynacast White Part A
PRODUCT NUMBER:
UPC NUMBER:

SYNONYMS:

PREPARED BY Kathy Louney-Bilski

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Ingredient %	OSHA PEL	ACGIH TLV
4,4' Diphenylmethane Diisocyanate	101-68-8	5-20%		
Polymethylene polyphenyl Isocyanate	9016-87-9	10-30%		
Hydrocarbon Naphta	64742-47-8	2-10%		
Amorphous Silica	112945-52-5	.03-.08%		
BARIUM SULFATE	7727437	5-15%	PEL = Total dust 15 mg/M3 Respirable fraction 5mg/M3	TLV = 10mg/M3 TOTAL DUST CONTAINING NO ASBESTOS AND LESS THA
BOROSILATE	65997173	45-55%		10 mg/m ³

N/A Not Available

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW:

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Eye contact may result in conjunctival irritation.

INHALATION: Exposure exceeding the PEL may result in chemical bronchitis, headache or pulmonary edema.

INGESTION: Gastrointestinal symptoms include nausea, vomiting and abdominal pain

SKIN CONTACT: Skin contact may result in dermatitis, either irritative or allergic.

SIGNS AND SYMPTOMS OF EXPOSURE:

Eye, skin, or respiratory irritation.

4. FIRST AID MEASURES

EYE CONTACT: Flush with Copious Amounts of water for 15 minutes; Contact Physician

INHALATION: Remove victim to uncontaminated area, administer oxygen if necessary. Seek medical attention.

INGESTION: DO NOT induce vomiting. Never give fluids or induce vomiting if victim is unconscious or having convulsions. Seek medical attention.

SKIN CONTACT: Remove contaminated clothes and wash affected areas with soap and water. Seek medical attention.

AGGRAVATED MEDICAL CONDITIONS:

Chronic overexposure to isocyanates may cause sensitization in some individuals, resulting in wheezing, shortness of breath and difficulty in breathing. Subsequent reactions may occur below the PEL and TLV. Asthma caused by polyisocyanates may persist in some individuals after removal of the polyisocyanate. Long-term overexposure has been reported to cause lung damage including reduced lung function.

SUPPLEMENTAL HEALTH INFORMATION:

Individuals who are sensitized to isocyanates and those with pre-existing lung diseases or conditions, including asthma, pulmonary sensitization, recurrent eczema must avoid all exposure to isocyanates.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: 141°F **FLASH POINT METHOD USED:** TOC

AUTOIGNITION: Not Determined **LEL:** N/A **UEL:** N/A

EXTINGUISHING MEDIA:

Carbon Dioxide, dry chemical, chemical foam, water spray

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters must wear self-contained breathing apparatus to protect against toxic and irritating vapors. Full protective clothing should also be worn.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None Known

COMBUSTION PRODUCTS:

Carbon Dioxide, Carbon Monoxide

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Remove spillage by absorbing in sand, vermiculite, sawdust, or absorbent sweeping compound. For small spills, rubbing alcohol may be used. Dike to prevent entry into water system.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Should be stored in a ventilated storage area between 70-80°F. Avoid excessive temperatures. Storage must be in tightly sealed containers to protect from moisture.

OTHER PRECAUTIONS:

N/A

8. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

If the PEL is exceeded, wear a NIOSH approved air supplied respirator.

VENTILATION: Use local exhaust to maintain concentration below the PEL.

PROTECTIVE GLOVES: Wear resistant gloves. (Consult your safety supplier for appropriate gloves).

EYE PROTECTION: Fitted chemical goggles, face shield or safety glasses.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Boots and rubber apron to avoid skin contact. Contaminated clothing or equipment should be cleaned or disposed of after use.

WORK / HYGENIC PRACTICES:

Educate and train employees on safe use of product. Shower and eye wash station should be available.

ENGINEERING CONTROLS: Good ventilation should be sufficient to control airborne levels.

EXPOSURE GUIDELINES: CAS#64742-47-8 PEL 100 ppm TLV 100 ppm CAS#101-68-8 TLV .005 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

SOLUABILITY IN WATER: Slight **APPEARANCE AND ODOR:** Oxide yellow liquid, slight odor

BOILING POINT:	>300°F	FREEZING POINT:	N/A
VAPOR PRESSURE	N/A	PERCENT VOLATILE:	N/A
EVAPORATION:	N/A	PH:	N/A
POUNDS PER GALLON:	N/A	MOLECULAR WEIGHT:	N/A
SPECIFIC GRAVITY:	1.8-1.9	VAPOR DENSITY:	N/A
MELTING POINT:	N/A	OTHER PROPERTIES:	N/A

10. STABILITY AND REACTIVITY

STABLE: Stable **INCOMPATIBILITY:** Strong oxidizing materials.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: Carbon dioxide (Carbon monoxide with incomplete combustion)

HAZARDOUS POLYMERIZATION: Will Not Occur

11. TOXICOLOGY INFORMATION

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Use approved incineration in accordance with federal, state and local environmental regulations. Material must be disposed of in approved land fill.

14. TRANSPORTATION INFORMATION

DOT CLASS:	Liquid Plastic, N.O.I., Non regulated
HAZARD CLASS:	N/A
UN NUMBER:	N/A
PACKING:	N/A
GUIDE NUMBER:	N/A
PROPER SHIPPING NAME:	Liquid Plastic, N.O.I., Non regulated

15. REGULATORY INFORMATION

EC Classification: No information available.

SARA Title III **Section 302 : Extremely Hazardous (If Section is blank - then it is N/A (not applicable))**

per 40 CFR 372.45(f) toxic chemicals if so listed here in the mixture do not exceed the specified upper bound concentration value listed as Wt%

Chemical Name	CAS number	Wt. %
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Section 311-312: Hazardous Categorization (If Section is blank - then it is N/A (not applicable))

Chemical Name	CAS number	Wt. %
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BARIUM SULFATE	7727437	5-15%
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Section 313: Toxic Chemical (If Section is blank - then it is N/A (not applicable))

Chemical Name	CAS number	Wt. %
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WHIMIS (If Section is blank - then it is N/A (not applicable))

Chemical name	CAS number	Wt. %
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Proposition 65 (If Section is blank - then it is N/A (not applicable))

Chemical name	CAS number	Wt. %
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16. OTHER INFORMATION

HMIS INFORMATION: HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1 PROTECTIVE: H

DISCLAIMER

The information contained herein is based on the data available to The Kindt-Collins LLC and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. We assume no responsibilities for injury from the use of this product described herein.

We only warrant to you, but no other persons, that the product herein shall conform to our Quality Assurance specifications on the date of shipment to you. Any technical advice, information, or recommendations given to you is given gratis without any warranty, expressed or implied.



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Dynacast White Part B

DATE PREPARED: 4/20/2005
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: Kindt-Collins Company LLC
 12651 Elmwood Ave
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 (Chemtrec)

PRODUCT NAME: Dynacast White Part B
PRODUCT NUMBER:
UPC NUMBER:

SYNONYMS:
PREPARED BY Kathy Louney-Bilski

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Ingredient %	OSHA PEL	ACGIH TLV
Polyether Polyol	9051494	10-20%	N/A	N/A
Hydrocarbon Naphtha	64742-47-8	2-10%		
Nitrogen Based Polyether	102-60-3	5-15%		
Amorphous Silica	112945-52-5	.02-.07%		
BARIUM SULFATE	7727437	15-30%	PEL = Total dust 15 mg/M3 Respirable fraction 5mg/M3	TLV = 10mg/M3 TOTAL DUST CONTAINING NO ASBESTOS AND LESS THAN
BOROSILATE	65997173	45-55%		10 mg/m ³
Blue Pigment	000147-14-8	.1-.5%		

N/A Not Available

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW:

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Eye contact may result in conjunctival irritation.

INHALATION: Exposure exceeding the PEL may result in chemical bronchitis, headache or pulmonary edema.

INGESTION: Gastrointestinal symptoms include nausea, vomiting and abdominal pain

SKIN CONTACT: Skin contact may result in dermatitis, either irritative or allergic.

SIGNS AND SYMPTOMS OF EXPOSURE:

Eye, skin, or respiratory irritation.

4. FIRST AID MEASURES

EYE CONTACT: Flush with Copious Amounts of water for 15 minutes; Contact Physician

INHALATION: Remove victim to uncontaminated area, administer oxygen if necessary. Seek medical attention.

INGESTION: DO NOT induce vomiting. Never give fluids or induce vomiting if victim is unconscious or having convulsions. Seek medical attention.

SKIN CONTACT: Remove contaminated clothes and wash affected areas with soap and water. Seek medical attention.

AGGRAVATED MEDICAL CONDITIONS:

Chronic overexposure to isocyanates may cause sensitization in some individuals, resulting in wheezing, shortness of breath and difficulty in breathing. Subsequent reactions may occur below the PEL and TLV. Asthma caused by polyisocyanates may persist in some individuals after removal of the polyisocyanate. Long-term overexposure has been reported to cause lung damage including reduced lung function.

SUPPLEMENTAL HEALTH INFORMATION:

Individuals who are sensitized to isocyanates and those with pre-existing lung diseases or conditions, including asthma, pulmonary sensitization, recurrent eczema must avoid all exposure to isocyanates.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: 141°F

FLASH POINT METHOD USED: TOC

AUTOIGNITION: Not Determined

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Carbon Dioxide, dry chemical, chemical foam, water spray

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters must wear self-contained breathing apparatus to protect against toxic and irritating vapors. Full protective clothing should also be worn.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None Known

COMBUSTION PRODUCTS:

Carbon Dioxide, Carbon Monoxide

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Remove spillage by absorbing in sand, vermiculite, sawdust, or absorbent sweeping compound. For small spills, rubbing alcohol may be used. Dike to prevent entry into water system.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Should be stored in a ventilated storage area between 70-80°F. Avoid excessive temperatures. Storage must be in tightly sealed containers to protect from moisture.

OTHER PRECAUTIONS:

N/A

8. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

If the PEL is exceeded, wear a NIOSH approved air supplied respirator.

VENTILATION: Use local exhaust to maintain concentration below the PEL.

PROTECTIVE GLOVES: Wear resistant gloves. (Consult your safety supplier for appropriate gloves).

EYE PROTECTION: Fitted chemical goggles, face shield or safety glasses.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Boots and rubber apron to avoid skin contact. Contaminated clothing or equipment should be cleaned or disposed of after use.

WORK / HYGENIC PRACTICES:

Educate and train employees on safe use of product. Shower and eye wash station should be available.

ENGINEERING CONTROLS: Good ventilation should be sufficient to control airborne levels.

EXPOSURE GUIDELINES: CAS#64742-47-8 PEL 100 ppm TLV 100 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

SOLUABILITY IN WATER: Slight

APPEARANCE AND ODOR: White liquid, slight odor

BOILING POINT:	>300°F	FREEZING POINT:	N/A
VAPOR PRESSURE	N/A	PERCENT VOLATILE:	N/A
EVAPORATION:	N/A	PH:	N/A
POUNDS PER GALLON:	N/A	MOLECULAR WEIGHT:	N/A
SPECIFIC GRAVITY:	1.8-1.9	VAPOR DENSITY:	N/A
MELTING POINT:	N/A	OTHER PROPERTIES:	N/A

10. STABILITY AND REACTIVITY

STABLE: Stable

INCOMPATIBILITY: Moisture and isocyanates

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: Carbon dioxide and carbon monoxide

HAZARDOUS POLYMERIZATION: Will Not Occur

11. TOXICOLOGY INFORMATION

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Use approved incineration in accordance with federal, state and local environmental regulations. Material must be disposed of in approved land fill.

14. TRANSPORTATION INFORMATION

DOT CLASS: Liquid Plastic, N.O.I., Non regulated
HAZARD CLASS: N/A
UN NUMBER: N/A
PACKING: N/A
GUIDE NUMBER: N/A
PROPER SHIPPING NAME: Liquid Plastic, N.O.I., Non regulated

15. REGULATORY INFORMATION

EC Classification: No information available.

SARA Title III **Section 302 : Extremely Hazardous (If Section is blank - then it is N/A (not applicable))**

per 40 CFR 372.45(f) toxic chemicals if so listed here in the mixture do not exceed the specified upper bound concentration value listed as Wt%

Chemical Name	CAS number	Wt. %
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Section 311-312: Hazardous Categorization (If Section is blank - then it is N/A (not applicable))

Chemical Name	CAS number	Wt. %
BARIUM SULFATE	7727437	15-30%

Section 313: Toxic Chemical (If Section is blank - then it is N/A (not applicable))

Chemical Name	CAS number	Wt. %
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WHIMIS (If Section is blank - then it is N/A (not applicable))

Chemical name	CAS number	Wt. %
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Proposition 65 (If Section is blank - then it is N/A (not applicable))

Chemical name	CAS number	Wt. %
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16. OTHER INFORMATION

HMIS INFORMATION: HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0 PROTECTIVE: H

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We only warrant to you, but no other persons, that the product herein shall conform to our Quality Assurance specifications on the date of shipment to you. Any technical advice, information, or recommendations given to you is given gratis without any warranty, expressed or implied.