

MATERIAL SAFETY DATA SHEET

Burtin Corporation
(714) 850-1370

Section I

70867

Trade Name/Product Number: CU-15 A
Date: 06/23/93
Manufacturer's Name: BURTIN CORPORATION
Address: 2550 S. GARNSEY ST.
City: SANTA ANA State: CA Zip: 92707
Emergency Phone No. (714) 850-1370

Chemical Name and Synonyms: POLYMERIC MDI
Chemical Family: AROMATIC ISOCYANATES
Formula: POLYMERIC DIPHENYLMETHANE DIISOCYANATE

Section II - Hazardous Ingredients

Pigments:	%-	TLV (units):
Catalyst:	%-	TLV (units):
Vehicle: POLYMERIC (MDI)	%- 100	TLV (units): .02PPM
Solvents:	%-	TLV (units):
Additives:	%-	TLV (units): N/A
Others:	%-	TLV (units):

Hazardous Mixtures Of Other Liquids, Solids, Or Gases

DIPHENYLMETHANE DIISOCYANATE (MDI)	%-	TLV (units):
CAS#026447-40-5	%- 50	TLV (units): 0.02PPM
POLYMETHYLENE POLYPHENYL ISOCYANATE	%-	TLV (units):
CAS#009016-87-9	%- 50	TLV (units): 0.02PPM

Section III - Physical Data

Boiling Point: 392F, 200C @5mmHG	Specific Gravity: 1.2 @25C
Vapor Pressure: <1x10 ⁻⁵ mmHG 25C	Percent Volatile: N.A.
Vapor Density: APPROX. 8.6	Evaporation Rate: N.A.
Solubility in Water: REACTS	
Appearance & Odor: BROWN LIQUID, VERY SLIGHT AROMATIC ODOR	

Section IV - Fire and Explosion-Hazard Data

Flash Point: 400F, 250C
Extinguishing Media: CARBON DIOXIDE, DRY CHEMICAL, CHEMICAL FOAM. FOR LARGE SCALE FIRES, ALCOHOL RESISTANT FOAMS ARE PREFERRED.
Special Fire Fighting Procedures: FIRE FIGHTERS SHOULD BE EQUIPPED WITH POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire & Explosion Hazards: AVOID WATER CONTAMINATION IN CLOSED CONTAINERS OR CONFINED AREAS.

Section V - Health Hazard Data

Threshold Limit Value: 0.02PPM CEILING (MDI)

Effects of Overexposure:

RESPIRATORY IRRITANT-ALSO CAUSES RESPIRATORY SENSITIZATION WITH ASTHMA SYMPTOM; SKIN AND EYE CONTACT CAN CAUSE IRRITATION, REDENING, SWELLING, RASH, SCALING, OR BLISTERING; INGESTION-IRRITATION OR ULCERATION.

Emergency & First Aid Procedures:

EYE-FLUSH WITH WATER-OBTAIN MEDICAL ATTENTION; SKIN-WASH WITH SOAP AND WATER-CLEAN CONTAMINATED CLOTHING; INGESTION-DO NOT INDUCE VOMITING, CALL PHYSICIAN AND/OR TRANSPORT TO EMERGENCY FACILITY; INHALATION REMOVE TO FRESH AIR.

Section VI - Reactivity Data

Stability: Stable

Conditions To Avoid: REACTION WITH WATER FORMING CARBON DIOXIDE
Incompatibility (Materials to avoid): WATER, ALCOHOL AND STRONG BASES.
Hazardous Decomposition Products: CO₂, CO, NO₂, NO, TRACE HCN.

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: MOISTURE CONTAMINATION

Sections VII - Spill or Leak Procedures

Steps To Be Taken In Case Material Is Released Or Spilled:

EVACUATE AND VENTILATE AREA, DIKE SPILL, PREVENT ENTRY OF WATER;
CLEAN UP PERSONNEL WEAR FULL PROTECTIVE EQUIPMENT; ABSORB WITH
SAWDUST AND SHOVEL INTO UNSEALED CONTAINERS.

Waste Disposal Method:

FOLLOW FEDERAL, STATE AND LOCAL REGULATIONS; INCINERATION IS THE
PREFERRED METHOD OR MATERIAL SHOULD BE NEUTRALIZED IN ACCORDANCE
WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Section VIII - Special Protection Information

Respiratory Protection: WEAR A NIOSH (APPROVED) AIR MASK
Ventilation: AS NECESSARY TO MAINTAIN BELOW P.E.L.

Protective Gloves: RUBBER OR PVC

Eye Protection: CHEMICAL GOGGLES

Other Protective Equipment: USE IMPERVIOUS PROTECTIVE CLOTHING.

Section IX - Special Precautions

Precautions To Be Taken In Handling & Storing:
KEEP CONTAINERS TIGHTLY CLOSED, STORE BETWEEN 60 TO 80F IN A COOL,
DRY PLACE AND PROTECT FROM FREEZING.

Other Precautions:
IN CASE OF EMERGENCY: CALL CHEMTREC 800 424 9300
TRANSPORTATION CLASSIFICATION, UN#2489, CLASS 6.1, GROUP III

MATERIAL SAFETY DATA SHEET

Burtin Corporation
(714) 850-1370

Section I

70867

Trade Name/Product Number: CU-15 A
Date: 06/23/93
Manufacturer's Name: BURTIN CORPORATION
Address: 2550 S. GARNSEY ST.
City: SANTA ANA State: CA Zip: 92707
Emergency Phone No. (714) 850-1370

Chemical Name and Synonyms: POLYMERIC MDI
Chemical Family: AROMATIC ISOCYANATES
Formula: POLYMERIC DIPHENYLMETHANE DIISOCYANATE

Section II - Hazardous Ingredients

Pigments:	%-	TLV (units):
Catalyst:	%-	TLV (units):
Vehicle: POLYMERIC (MDI)	%- 100	TLV (units): .02PPM
Solvents:	%-	TLV (units):
Additives:	%-	TLV (units): N/A
Others:	%-	TLV (units):

Hazardous Mixtures Of Other Liquids, Solids, Or Gases

DIPHENYLMETHANE DIISOCYANATE (MDI)	%-	TLV (units):
CAS#026447-40-5	%- 50	TLV (units): 0.02PPM
POLYMETHYLENE POLYPHENYL ISOCYANATE	%-	TLV (units):
CAS#009016-87-9	%- 50	TLV (units): 0.02PPM

Section III - Physical Data

Boiling Point: 392F, 200C @5mmHG Specific Gravity: 1.2 @25C
Vapor Pressure: <1x10(-5)mmHG 25C Percent Volatile: N.A.
Vapor Density: APPROX. 8.6 Evaporation Rate: N.A.
Solubility in Water: REACTS
Appearance & Odor: BROWN LIQUID, VERY SLIGHT AROMATIC ODOR

Section IV - Fire and Explosion-Hazard Data

Flash Point: 400F, 250C
Extinguishing Media: CARBON DIOXIDE, DRY CHEMICAL, CHEMICAL FOAM. FOR LARGE SCALE FIRES, ALCOHOL RESISTANT FOAMS ARE PREFERRED.
Special Fire Fighting Procedures: FIRE FIGHTERS SHOULD BE EQUIPPED WITH POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire & Explosion Hazards: AVOID WATER CONTAMINATION IN CLOSED CONTAINERS OR CONFINED AREAS.

Section V - Health Hazard Data

Threshold Limit Value: 0.02PPM CEILING (MDI)

Effects of Overexposure:

RESPIRATORY IRRITANT-ALSO CAUSES RESPIRATORY SENSITIZATION WITH ASTHMA SYMPTOM; SKIN AND EYE CONTACT CAN CAUSE IRRITATION, REDENING, SWELLING, RASH, SCALING, OR BLISTERING; INGESTION-IRRITATION OR ULCERATION.

Emergency & First Aid Procedures:

EYE-FLUSH WITH WATER-OBTAIN MEDICAL ATTENTION; SKIN-WASH WITH SOAP AND WATER-CLEAN CONTAMINATED CLOTHING; INGESTION-DO NOT INDUCE VOMITING, CALL PHYSICIAN AND/OR TRANSPORT TO EMERGENCY FACILITY; INHALATION REMOVE TO FRESH AIR.

Section VI - Reactivity Data

Stability: Stable

Conditions To Avoid: REACTION WITH WATER FORMING CARBON DIOXIDE
Incompatibility (Materials to avoid): WATER, ALCOHOL AND STRONG BASES.
Hazardous Decomposition Products: CO₂, CO, NO₂, NO, TRACE HCN.

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: MOISTURE CONTAMINATION

Sections VII - Spill or Leak Procedures

Steps To Be Taken In Case Material Is Released Or Spilled:

EVACUATE AND VENTILATE AREA, DIKE SPILL, PREVENT ENTRY OF WATER;
CLEAN UP PERSONNEL WEAR FULL PROTECTIVE EQUIPMENT; ABSORB WITH
SAWDUST AND SHOVEL INTO UNSEALED CONTAINERS.

Waste Disposal Method:

FOLLOW FEDERAL, STATE AND LOCAL REGULATIONS; INCINERATION IS THE
PREFERRED METHOD OR MATERIAL SHOULD BE NEUTRALIZED IN ACCORDANCE
WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Section VIII - Special Protection Information

Respiratory Protection: WEAR A NIOSH (APPROVED) AIR MASK
Ventilation: AS NECESSARY TO MAINTAIN BELOW P.E.L.

Protective Gloves: RUBBER OR PVC

Eye Protection: CHEMICAL GOGGLES

Other Protective Equipment: USE IMPERVIOUS PROTECTIVE CLOTHING.

Section IX - Special Precautions

Precautions To Be Taken In Handling & Storing:
KEEP CONTAINERS TIGHTLY CLOSED, STORE BETWEEN 60 TO 80F IN A COOL,
DRY PLACE AND PROTECT FROM FREEZING.

Other Precautions:
IN CASE OF EMERGENCY: CALL CHEMTREC 800 424 9300
TRANSPORTATION CLASSIFICATION, UN#2489, CLASS 6.1, GROUP III

MATERIAL SAFETY DATA SHEET

Burtin Corporation
(714) 850-1370

Section I

70867

Trade Name/Product Number: CU-15 SERIES B
Date: 09/06/93
Manufacturer's Name: BURTIN CORPORATION
Address: 2550 S. GARNSEY ST.
City: SANTA ANA State: CA Zip: 92707
Emergency Phone No. (714) 850-1370

Chemical Name and Synonyms: POLYOL
Chemical Family: POLYURETHANE
Formula: POLYESTER & POLYETHER BLEND

Section II - Hazardous Ingredients

Pigments:	%-	TLV (units):
Catalyst: PROPRIETARY	%- <2	TLV (units): 10ppm
Vehicle: POLYOL BLEND	%- 88	TLV (units): N.A.
Solvents: AROMATIC DISTILLATE	%- <10	TLV (units): N.A.
Additives:	%-	TLV (units):
Others:	%-	TLV (units):

Hazardous Mixtures Of Other Liquids, Solids, Or Gases

N.A.	%-	TLV (units):
	%-	TLV (units):
	%-	TLV (units):
	%-	TLV (units):

Section III - Physical Data

Boiling Point: >400 F	Specific Gravity: 1.08
Vapor Pressure: NEGLIGIBLE	Percent Volatile: N.A.
Vapor Density: >1.0	Evaporation Rate: N.A.
Solubility in Water: SLIGHT	
Appearance & Odor: AMBER LIQUID, SLIGHT AROMATIC ODOR	

Section IV - Fire and Explosion Hazard Data

Flash Point: OVER 300 F (O.C)
Extinguishing Media: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, CHEMICAL FOAM.
Special Fire Fighting Procedures: WATER OR FOAM MAY CAUSE FROTHING-USE WATER TO COOL CONTAINERS TO PREVENT SPILLAGE.
Unusual Fire & Explosion Hazards: KEEP CONTAINERS COOL TO PREVENT PRESSURE BUILD-UP AND DRUMS FROM BURSTING.

Section V - Health Hazard Data

Threshold Limit Value: NOT CARCINOGEN

Effects of Overexposure:

EYES: IRRITATION OR CORROSIVE; SKIN: MODERATELY IRRITATING, CAN CAUSE REDNESS OR DRYING OF SKIN; INGESTION: SMALL AMOUNTS NOT LIKELY TO CAUSE INJURY.

Emergency & First Aid Procedures:

EYES: FLUSH WITH WATER, SEE PHYSICIAN; INHALATION: FRESH AIR; SKIN: WASH WITH SOAP AND WATER; INGESTION: INDUCE VOMITING, CALL PHYSICIAN

Section VI - Reactivity Data

Stability: Stable

Conditions To Avoid: KEEP CONTAINERS COOL TO PREVENT PRESSURE BUILD-UP.

Incompatibility (Materials to avoid): ISOCYANATES

Hazardous Decomposition Products: CO₂, CO, NO_x, UNDER FIRE CONDITIONS.

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: ISOCYANATES; OXIDIZING MATERIALS OR STRONG ACIDS.

Sections VII - Spill or Leak Procedures

Steps To Be Taken In Case Material Is Released Or Spilled:

~~CONTAIN SPILL, AVOID PERSONAL CONTACT, APPLY ABSORBENT MATERIAL (SAW DUST OR INERT DIRT) OR WIPE UP WITH SUITABLE MATERIAL, PLACE IN UNSEALED CONTAINER - WASH AREA WITH DETERGENT AND WATER.~~

Waste Disposal Method:

BECAUSE THIS IS A PETROLEUM BASE PRODUCT IT MAY CAUSE POLLUTION-DO NOT DISCHARGE INTO GROUND, STREAM, PONDS OR PUBLIC WATERS. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. INCINERATION OR NEUTRALIZATION IS PREFERRED METHOD.

Section VIII - Special Protection Information

Respiratory Protection: NONE REQUIRED

Ventilation: NO SPECIAL REQUIREMENTS

EYE WASH/SAFETY SHOWER

Protective Gloves: PLASTIC/RUBBER-CHEMICAL & PETROLEUM TYPE

Eye Protection: CHEMICAL GOGGLES

Other Protective Equipment: USE PETROLEUM PROTECTIVE CLOTHING