CPL-7

MATERIAL SAFETY DATA SHEET

MSDS Name: DOUBLE BUBBLE BLUE/BEIGE D85 PACKAGE

MSDS Number: 16666#1

Version Number F

MSDS Date:

JUN-17-2005

Page Number: 1 of 7

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:

DOUBLE BUBBLE BLUE/BEIGE D85 PACKAGE

Hazard Rating:

Health: 3 Fire: 1 Reactivity: 1 PPI:

Company Identification: ROYAL ADHESIVES & SEALANTS LLC

600 CORTLANDT STREET

BELLEVILLE NJ 07109-3384

Contact:

Telephone/Fax:
Emergency Phone (24 Hour):

BRUCE WEINMAN

(973) 751-3000 (973) 751-8407

ENVIRONMENTAL SPECIALIST

(973) 751-3000

Chemtrec (24 Hour): (800) 424-9300 Preparer B. WEINMAN

ENVIRONMENTAL SPECIALIST

Product Class Trade Name

POLYMERIC DIISOCYANATE

HIGH SHEAR STRENGTH

Product Code

(04023) PART A

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredients

CAS Number

4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI) 101-68-8

TRADE SECRET

TRADE SECRET

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory

SECTION III - HAZARDS IDENTIFICATION

HEALTH HAZARD INFORMATION:

EYE CONTACT:

MAY CAUSE EYE IRRITATION. CORNEAL DAMAGE POSSIBLE.

SKIN CONTACT:

MAY CAUSE IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE RASH, REDDENING, SWELLING, AND IN SOME CASES, SKIN SENSITIZATION.

INHALATION:

AT ROOM TEMPERATURE VAPORS ARE MINIMAL DUE TO LOW VAPOR PRESSURE.

DS Name: DOUBLE BUBBLE BLUE/BEIGE D85 PACKAGE

DS. Number: 16666#1

rsion Number

OS Date:

JUN-17-2005

ge Number: 2 of 7

HOWEVER, HEATING OR SPRAYING MAY GENERATE VAPOR CONCENTRATIONS SUFFICIENT TO CAUSE IRRITATION. EXCESSIVE EXPOSURE MAY CAUSE IRRITATION OF THE EYES, UPPER RESPIRATORY TRACT, AND LUNGS. MAY CAUSE RESPIRATORY SENSITIZATION IN SUSCEPTIBLE INDIVIDUALS. MDI CONCENTRATIONS BELOW THE EXPOSURE GUIDELINES MAY CAUSE ALLERGIC RESPIRATORY REACTIONS IN INDIVIDUALS ALREADY SENSITIZED. SYMPTOMS MAY INCLUDE COUGHING, DIFFICULT BREATHING AND A FEELING OF TIGHTNESS IN THE CHEST. EFFECTS MAY BE DELAYED. IMPAIRED LUNG FUNCTION (DECREASED VENTILATORY CAPACITY) HAS BEEN ASSOCIATED WITH OVEREXPOSURE TO ISOCYANATES.

GESTION:

MAY CAUSE IRRITATION AND CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND DIGESTIVE TRACT. SYMPTOMS CAN INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA.

HER HEALTH INFORMATION (POLYMERIC MDI CAS 101-68-8): TISSUE INJURY IN THE UPPER RESPIRATORY TRACT AND LUNGS HAS BEEN OBSERVED IN LABORATORY ANIMALS AFTER REPEATED EXCESSIVE EXPOSURES TO MDI/POLYMERIC MDI AEROSOLS.

LUNG TUMORS HAVE BEEN OBSERVED IN LABORATORY ANIMALS EXPOSED TO AEROSOL DROPLETS OF MDI/POLYMERIC MDI FOR THEIR LIFETIME. TUMORS OCCURRED CONCURRENTLY WITH RESPIRATORY IRRITATION AND LUNG INJURY. CURRENT EXPOSURE GUIDELINES ARE EXPECTED TO PROTECT AGAINST THESE EFFECTS REPORTED FOR MDI.

IN LABORATORY ANIMALS, MDI/POLYMERIC MDI DID NOT PRODUCE BIRTH DEFECTS; OTHER FETAL EFFECTS OCCURRED ONLY AT HIGH DOSES WHICH WERE TOXIC TO THE MOTHER.

ANIMAL TESTS HAVE ALSO INDICATED THAT RESPIRATORY SENSITIZATION CAN RESULT FROM SKIN CONTACT WITH MDI. USE SKIN PROTECTION.

ECTION IV - FIRST AID MEASURES

WASH WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL.

WASH WITH SOAP AND PLENTY OF WARM WATER.

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.

MSDS Name: DOUBLE BUBBLE BLUE/BEIGE D85 PACKAGE

MSDS Number: 16666#1

Version Number F

MSDS Date:

JUN-17-2005

Page Number: 3 of 7

IF BREATHING IS DIFFICULT, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. CALL A PHYSICIAN OR TRANSPORT TO A MEDICAL FACILITY.

INGESTION:

IF SWALLOWED SEEK MEDICAL ATTENTION. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. GIVE NOTHING BY MOUTH IF PERSON IS UNCONSCIOUS OR HAVING CONVULSIONS.

SECTION V - FIRE-FIGHTING MEASURES

Flammability Class

Flash Range:

Not Available

Pensky-Martens Closed Cup ASTM D 93

425F

Explosive Range:

Not Available

FIRE-FIGHTING MEASURES:

WATER SPRAY DRY CHEMICAL

FOAM

CARBON DIOXIDE

USE FULL TURNOUT GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS (SCBA).

DURING A FIRE, POLYMERIC DIPHENYLMETHANE DIISOCYANATE (MDI) VAPORS AND OTHER IRRITATING, HIGHLY TOXIC GASES MAY BE GEN-ERATED BY THERMAL DECOMPOSITION OR COMBUSTION. AT TEMP-ERATURES GREATER THAN 400F, POLYMERIC MDI CAN POLYMERIZE AND DECOMPOSE WHICH CAN CAUSE PRESSURE BUILD-UP IN CLOSED CON-TAINERS. EXPLOSIVE RUPTURE IS POSSIBLE. THEREFORE, USE COLD WATER TO COOL FIRE-EXPOSED CONTAINERS.

SECTION VI - ACCIDENTAL RELEASE MEASURES

SPILLS:

SHUT OFF ALL IGNITION SOURCES AND DIKE SPILL TO CONTAIN AND PREVENT ENTRY INTO SEWERS OR WATER SOURCES. ABSORB SPILLED MATERIAL AND PLACE INTO OPEN TOP CONTAINERS. DO NOT MAKE PRESSURE TIGHT. TRANSPORT TO A WELL-VENTILATED AREA (OUTSIDE) AND TREAT WITH NEUTRALIZING SOLUTION CONSISTING OF A MIXTURE OF 85% WATER, 5% CONCENTRATED AMMONIUM HYDROXIDE AND 10% SODIUM CARBONATE. ADD ABOUT 10 PARTS OF NEUTRALIZER PER PART OF ISO-CYANATE WITH MIXING. ALLOW TO STAND FOR 48 HOURS LETTING EVOLVED

OS Name: DOUBLE BUBBLE BLUE/BEIGE D85 PACKAGE

)S. Number: 16666#1

rsion Number

F

OS Date: JUN-17-2005

ge Number: 4 of 7

RBON DIOXIDE TO ESCAPE. IF TEMPORARY CONTROL OF ISOCYANATE POR IS REQUIRED, A BLANKET OF PROTEIN FOAM (AVAILABLE AT MOST RE DEPARTMENTS) MAY BE PLACED OVER THE SPILL.

NTROLLED INCINERATION. HANDLE IN COMPLIANCE WITH LOCAL, STATE, D FEDERAL ENVIRONMENTAL PROTECTION AGENCY REGULATIONS.

:CTION VII - HANDLING AND STORAGE

ORAGE CONDITIONS:

ORE IN TIGHTLY CLOSED CONTAINERS TO PREVENT MOISTURE CONTAMINATION. NOT RESEAL IF CONTAMINATION IS SUSPECTED. OPTIMUM STORAGE MPERATURE IS 80F TO 100F.

ECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

cupation	al Exposure Lim ACGIH TLV		ACGIH STEL	OSHA STEL	OSHA PEL
4'-DIPHE	NYLMETHANE DIIS 0.0050 PPM	OCYANATE (MDI) N/est	N/est	N/est	0.0200 PPM
ADE SECR	ET N/est	N/est	N/est	N/est	N/est

RSONAL PROTECTIVE EQUIPMENT:

MOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW THE EXPOSURE GUIDE NE. WHEN RESPIRATORY PROTECTION IS REQUIRED FOR CERTAIN OPERATIONS, E AN APPROVED POSITIVE-PRESSURE SUPPLIED-AIR RESPIRATOR. FOR ERGENCY AND OTHER CONDITIONS WHERE THE EXPOSURE GUIDELINE MAY BE EATLY EXCEEDED, USE AN APPROVED POSITIVE-PRESSURE SELF-CONTAINED EATHING APPARATUS OR POSITIVE-PRESSURE AIRLINE WITH AUXILIARY LF-CONTAINED AIR SUPPLY.

IS PRODUCT HAS POOR WARNING PROPERTIES, SINCE RECOGNITION OF AN ODOR FAR ABOVE THE TLV. OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE (29 R 1910.134).

CAL EXHAUST IS RECOMMENDED.

E PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL. LECTION OF SPECIFIC ITEMS SUCH AS FACESHIELD, GLOVES, OR APRON LL DEPEND ON OPERATION.

EMICAL SPLASH GOGGLES. IN A SPLASH ENVIRONMENT CHEMICAL GGLES AND FULL FACE SHIELD SHOULD BE WORN.

EMICAL RESISTANT PROTECTIVE CLOTHING TO MINIMIZE EXPOSURE.

E WASH STATION AND SAFETY SHOWER SHOULD BE AVAILABLE FOR ERGENCY USE.

MSDS Name: DOUBLE BUBBLE BLUE/BEIGE D85 PACKAGE

MSDS Number: 16666#1

Version Number

MSDS Date: JUN-17-2005

Page Number: 5 of 7

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Form:

LIQUID

Appearance/Color: Odor:

LIGHT AMBER

Boiling Range:

WEAKLY AROMATIC

Vapor Pressure (mmHg):

Not Available

Melting Point:

Not Available Not Applicable

Evaporation Rate:

Unavailable

% Volatile

Not Available

Specific Gravity:

1.11

SECTION X - STABILITY AND REACTIVITY

Stability:

This product is stable

Hazardous Polymerization: Hazardous polymerization may occur

REACTIVITY:

INCOMPATIBILITY:

OXIDIZING AGENTS

AMINES

ALCOHOLS

WATER

ACIDS AND CAUSTIC ALKALI SOLUTIONS.

CONDITIONS TO AVOID:

HIGH TEMPERATURES.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDE, CARBON DIOXIDE, ISOCYANATE-CONTAINING VAPOR.

SECTION XI - TOXICOLOGICAL INFORMATION

Lethal Dose Information (ppm)

Oral Skin Inhale

LC50

TOXICOLOGICAL INFORMATION: NO INFORMATION IS AVAILABLE.

SECTION XII - ECOLOGICAL INFORMATION

NO INFORMATION IS AVAILABLE.

)S Name: DOUBLE BUBBLE BLUE/BEIGE D85 PACKAGE

)S Number: 16666#1

sion Number

JUN-17-2005)S Date:

6 of 7 ge Number:

CTION XIII - DISPOSAL CONSIDERATIONS

RA CONSIDERATIONS:

IS PRODUCT IF DISPOSED OF IN THE PURCHASED FORM IS NOT CONSIDERED RA HAZARDOUS.

ECTION XIV - TRANSPORT INFORMATION

Number

Pack Group

Class

AO/IATA Class

IDG Class

ippi Name

)R/RID Class

T Hazard Class chnical Name

NOT REGULATED NOT REGULATED

PLASTIC LIQUID, NOS

NOT REGULATED

ECTION XV - REGULATORY INFORMATION

ARA TITLE III SECTION 313:

nis product contains the following toxic chemicals subject to the eporting requirements of Section 313 of the Emergency Planning and ommunity Right to Know Act of 1986 and of 40 CFR 372:

nemical Name

CAS Number

용

.4'-DIPHENYLMETHANE DIISOCYANATE (MDI) 101-68-8

30 - 60

SCA STATUS:

LL INGREDIENTS CONTAINED IN THIS PRODUCT ARE ON THE TSCA INVENTORY.

NVENTORY STATUS:

THE COMPONENT(S) OF THIS PRODUCT HAVE BEEN VERIFIED TO BE LISTED ON THE FOLLOWING INVENTORIES:

UNITED STATES (TSCA) AUSTRALIA (AICS) CANADA (DSL) EUROPE (EINECS)

MSDS Name: DOUBLE BUBBLE BLUE/BEIGE D85 PACKAGE

MSDS Number: 16666#1

Version Number

MSDS Date:

JUN-17-2005

Page Number:

7 of 7

CHINA (ECS)

KOREA (ECL)

PHILIPPINES (PICCS)

SCHEDULE B NUMBER:

3506.91.0000 IS THE SCHEDULE B EXPORT CLASSIFICATION NUMBER. PROPOSITION 65 INFORMATION:

04023 PART A DOES NOT CONTAIN ANY CHEMICAL, KNOWN BY THE STATE OF CALIFORNIA, TO CAUSE CANCER/REPRODUCTIVE TOXICITY.

SECTION XVI - OTHER INFORMATION

DISCLAIMER:

ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN (HEREINAFTER "INFORMATION") ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, ROYAL ADHESIVES & SEALANTS LLC MAKES NO REPRESENTATIONS AS TO THE COMPLETENESS OR ACCURACY THEREOF. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSES PRIOR TO USE. IN NO EVENT WILL ROYAL ADHESIVES & SEALANTS LLC BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OF ANY NATURE ARE MADE HERE-UNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

. ¥. ,

i .