

TRUECAST XL-8500 PART A

PRODUCT AND COMPANY IDENTIFICATION

Supplier Details: Chemline Incorporated

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2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 5 Oral

Health, Skin corrosion/irritation, 2

Health, Respiratory or skin sensitization, 1 Skin

Health, Serious Eye Damage/Eye Irritation, 2 A

Health, Respiratory or skin sensitization, 1 Respiratory

Health, Specific target organ toxicity - Single exposure, 3

Health, Carcinogenicity, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER GHS Hazard Pictograms:





GHS Hazard Statements:

H303 - May be harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

GHS Precautionary Statements:

P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 - Wear protective gloves.

P284 - Wear respiratory protection.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/ physician.

3 COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemica %	ll Ingredients: Chemical Name:
101-68-8 5873-54-1	40-60% 5-25%	4,4'-Methylenediphenyl diisocyanate Benzene, 1-isocyanato-2-[(4- isocyanatophenyl)methyl]-
150449-03-9	0-7%	1,3-Butanediol, polymer with 1,1'- methylenebis[isocyanatobenzene], [(1-methyl-1,2- ethanediyl)bis(oxy)]bis[propanol] and 1,2-propanediol

FIRST AID MEASURES

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest

in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water

for at least 15 minutes. Call a Poison Center or doctor/physician if you feel unwell. Wash contaminated

clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue

rinising. Obtain medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Immediately call a Poison Center or physician.

FIRE FIGHTING MEASURES

Flammability: Not flammable but will support combustion.

Flash Point: 390F (198.89C)

Suitable Extinguising Media: Water spray, fog, alcohol-resistant foam, carbon dioxide, dry chemical powder. Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

Not flammable, but will support combustion. Product is not explosive.

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not enter fire area without proper protective equipment, including respiratory protection. Do not allow run-off from fire fighting to enter drains or water courses. Do not allow product to be released into the environment.

ACCIDENTAL RELEASE MEASURES

Avoid all contaact with skin, eyes, or clothing. Aboid breathing (vapor, mist, spray). Use appropriate protection equipment. Evacuate unnecessary personnel. Equip cleanup crews with proper protection. Stop leak if safe to do so. Eliminate ignition sources. Ventilate area. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

HANDLING AND STORAGE

Handling Precautions: Any proposed use of this product in elevated-temperature processes should be thoroughly

evaluated to assure that safe operating conditions are established and maintained. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating,

drinking, or smoking and when leaving work.

Storage Requirements: Comply with applicable regulations. Store in a dry, cool, and well-ventilated place. Keep

container closed when not in use. Keep/store away from direct sunlight, extremely high or low temperatures, and incompatible materials. Incompatible products: water, amines, strong bases, and alcohols will cause some corrosion to copper alloys and aluminum. Incompatible materials: sources of ingition. Direct sunlight. Heat sources. Storage temperature is 18C-30C.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment:

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [40-60%]

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [40-60%]

Components with workplace control parameters

TWA 0.0050 ppm Respiratory sensitization USA. ACGIH Threshold Limit Values (TLV)

respiratory sometimeation

C 0.02 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

0.2 mg/m3 1910.1000

C 0.02 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1

0.2 mg/m3 Limits for Air Contaminants

The value in mg/m3 is approximate. Ceiling limit is to be determined from breathing-zone air samples.

TWA 0.0050 ppm

0.05 mg/m3 10 minute ceiling value USA. NIOSH Recommended Exposure Limits

C 0.2 ppm 0.2 mg/m3 10 minute ceiling value USA. NIOSH Recommended Exposure Limits

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear amber

Physical State: Liquid Odor: Slightly musty odor

Boiling Point: 406F @ 5mmHg for MDI **Flash Point:** 390F

10 STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions **Chemical Stability:** Stable under recommended handling and storage conditions

Conditions to Avoid: Direct sunlight, extremely high or low temperatures, incompatible materials

Materials to Avoid: Water, amines, strong bases, and alcohols will cause some corrosion of copper alloys and

aluminum

Hazardous Decomposition: Upon thermal decomposition: carbon monoxide, oxides of nitrogen, traces of HCN, MDI

vapors, or aerosols

Hazardous Polymerization: May occur, contact with moisture and other materials, which react with isocyanates, or

temperatures above 204F, may cause some polymerization

TOXICOLOGICAL INFORMATION

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [40-60%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 4,700 mg/kg Inhalation LC50 Dermal LD50 no data available

Other information on acute toxicity

Skin corrosion/irritation: Serious eye damage/eye irritation:

Eyes - rabbit - Moderate eye irritation

Respiratory or skin sensitization: no data available

May cause allergic respiratory and skin reactions

Germ cell mutagenicity: Laboratory experiments have shown mutagenic effects.

Genotoxicity in vitro - Human - lymphocyte Sister chromatid exchange

Genotoxicity in vivo - rat - Inhalation DNA damage

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Diphenylmethane-4,4- diisocyanate)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Reproductive toxicity - rat - Inhalation:

Maternal Effects: Other effects. Specific Developmental Abnormalities: Musculoskeletal system.

no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System):

no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be fatal if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: Cough, Shortness of breath, Headache, Nausea, Vomiting, Pulmonary edema. Effects may be delayed.

Synergistic effects: no data available

Additional Information:

RTECS: NQ9350000

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ECOLOGICAL INFORMATION

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [40-60%]

Information on ecological effects

Toxicity:

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 0.35 mg/l - 24 h.

and other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: Do not empty into drains.

no data available

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DISPOSAL CONSIDERATIONS

Dispose of waste material in accordance with all local, regional, national, and international regulations. Do not dispose of waste into sewer.

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TRANSPORT INFORMATION

Non DOT/RCRA regulated

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REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[40-60%] RQ(5000LBS), 4,4'-Methylenediphenyl diisocyanate (101-68-8) CERCLA, HAP, IARC, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

[5-25%] Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1) TSCA

[0-7%] 1,3-Butanediol, polymer with 1,1'-methylenebis[isocyanatobenzene], [(1-methyl-1,2-ethanediyl)bis(oxy)]bis[propanol] and 1,2-propanediol (150449-03-9) TSCA

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

RQ = Reportable Quantity

CERCLA = Superfund clean up substance

HAP = Hazardous Air Pollutants

IARC = IARC Carcinogen Risks

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-Know Hazardous Substances

OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

SARA313 = SARA 313 Title III Toxic Chemicals

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

NFPA: Health = 2, Fire = 1, Reactivity = 0, Specific Hazard = None

HMIS III: Health = 2, Fire = 1, Physical Hazard = 0

HMIS PPE: X - Consult your supervisor for special instructions





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