

SAFETY DATA SHEET

Date Issued : 7/1/2013
SDS No : Quick-Repair 15
Date Revised : 3/14/2014
Revision No : 2

Quick-Repair 15 Part A

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Quick-Repair 15

MANUFACTURER

CSS Polymers Inc.
3482 Keith Bridge Rd., Ste 294
Cumming, GA 30041
770-945-0101

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical) : (877) 800-5553
CHEMTREC (US Transportation) : (800) 424-9300

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 4
Acute Toxicity (Inhalation), Category 4
Skin Irritation, Category 2
Eye Irritation, Category 2
Aspiration Hazard, Category 1
Respiratory Sensitization, Category 1
Skin Sensitization, Category 1
Target organ toxicity single exposure, Category 3
Target organ toxicity repeated exposure, Category 2
Carcinogenicity, Category 2

Environmental:

Acute Hazards to the Aquatic Environment, Category 2
Chronic Hazards to the Aquatic Environment, Category 2

Physical:

Flammable Liquids, Category 4

GHS LABEL



Health
hazard



Environment



Exclamation
mark

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H227: Combustible liquid.
H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.

H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H332: Harmful if inhaled.
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335: May cause respiratory irritation.
 H336: May cause drowsiness or dizziness.
 H351: Suspected of causing cancer.
 H373: May cause damage to organs (respiratory system) through prolonged or repeated exposure.
 H411: Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)

Prevention:

P210: Keep away from heat, sparks, open flames and hot surfaces. – No smoking.
 P260: Do not breathe mist, vapours or spray.
 P264: Wash hands thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P280: Wear protective gloves, protective clothing, eye protection and face protection.
 P285: In case of inadequate ventilation wear respiratory protection.
 P273: Avoid release to the environment.

Response:

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or physician.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313: IF exposed or concerned: Get medical advice.
 P330: Rinse mouth.
 P331: Do NOT induce vomiting.
 P391: Collect spillage.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
4,4'-Diphenylmethane diisocyanate	25 - 35	101-68-8
Polymeric diphenylmethane diisocyanate	25 - 35	9016-87-9
Heavy aromatic naphtha	20 - 30	64742-94-5
Napthalene	<= 5	91-20-3

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for at least 15 minutes. Remove contact lenses, if present. Obtain medical attention without delay.

SKIN: Immediately flush skin with water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention for severe exposure or if irritation persists.

INGESTION: Obtain immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Move person to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If not breathing, give artificial respiration. Obtain medical attention. Symptoms can be delayed for several hours.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water fog, water spray, foam, dry chemical or carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS: Carbon oxides, nitrogen oxides, isocyanates, formaldehyde and trace amounts of hydrogen cyanide.

EXPLOSION HAZARDS: Containers can build up pressure if exposed to heat or fire.

FIRE FIGHTING PROCEDURES: Do not use direct water stream. Use water spray to cool fire-exposed containers.

FIRE FIGHTING EQUIPMENT: Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

SENSITIVE TO STATIC DISCHARGE: Product can accumulate static charges which can cause an electrical spark.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Isolate the area and prevent entry of unnecessary and unprotected personnel. Eliminate all ignition sources. Do not walk through or otherwise scatter spilled product. Ventilate the area. Absorb with dry chemical absorbent, earth, sand or any other non-combustible inert material. Do not use combustible materials such as sawdust. Place in a chemical waste container.

LARGE SPILL: Isolate the area and prevent entry of unnecessary and unprotected personnel. Eliminate all ignition sources. Do not walk through or otherwise scatter spilled product. Ventilate the area. Prevent entry into waterways, sewers, basements or confined areas. Create a dike or trench to contain product. A vapor suppressing foam may be used to reduce vapors. Water spray may reduce vapors but may not prevent ignition in closed spaces. Absorb with dry chemical absorbent, earth, sand or any other non-combustible inert material. Do not use combustible materials such as sawdust. Place in a chemical waste container. Allow to stand loosely covered 48 hours before closing container.

GENERAL PROCEDURES: Clean spill area with a decontamination solution. Suggested formulation: Sodium carbonate (5 - 10%), liquid detergent (1 - 2%), water (88 - 94%). Alternate formulation: Concentrated ammonia (3 - 8%), liquid detergent (1 - 2%), water (90 - 96%). Ensure adequate ventilation to prevent overexposure of ammonia.

SPECIAL PROTECTIVE EQUIPMENT: Wear protective equipment listed in Section 8.

7. HANDLING AND STORAGE

HANDLING: Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking or smoking. Do not breathe vapors or mists. Use only with adequate ventilation. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flame. Vapors can accumulate and travel to ignition sources distant from the handling site and flash-fire can result.

STORAGE: Store in tightly closed containers in a cool, dry and well-ventilated area away from heat or sources of ignition. Keep out of direct sunlight. Keep containers tightly sealed.

STORAGE TEMPERATURE: 4.4°C (40°F) Minimum to 37.8°C (100°F) Maximum

ELECTROSTATIC ACCUMULATION HAZARD: Product can accumulate static charges which can cause an electrical spark.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
4,4'-Diphenylmethane diisocyanate	TWA	0.02 Ceiling	0.20 Ceiling	0.005	0.051
Naphthalene	TWA	10 Vapors	50 Vapors	10 Skin	50 Skin
	STEL			15	75

ENGINEERING CONTROLS: Local exhaust ventilation used in combination with general ventilation as necessary to control air contaminants.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear a face shield and chemical safety glasses or goggles.

SKIN: Wear impervious gloves. Cover exposed skin.

RESPIRATORY: For airborne exposure above the permissible exposure limit(s), wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use a positive-pressure air-supplying respirator.

WORK HYGIENIC PRACTICES: Avoid eating, drinking or smoking while using this material. Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Strong solvent.

APPEARANCE: Amber liquid.

FLASH POINT AND METHOD: > 65.6°C (150°F) Closed cup.

AUTOIGNITION TEMPERATURE: Not established.

VAPOR PRESSURE: None known.

VAPOR DENSITY: Heavier than air.

BOILING POINT: Not established.

FREEZING POINT: Not established.

SOLUBILITY IN WATER: Partial, reacts with water.

SPECIFIC GRAVITY: 1.1 (water = 1) at 23.3°C (74°F)

VISCOSITY #1: 15 Centipoise at 23.3°C (74°F)

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: High temperatures and ignition sources.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides, nitrogen oxides, isocyanates, formaldehyde and trace amounts of

hydrogen cyanide.

INCOMPATIBLE MATERIALS: Amines, strong acids, strong bases, oxidizing agents and peroxides.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
4,4'-Diphenylmethane diisocyanate	> 10000 mg/kg	> 9400 mg/kg	0.49 mg/L/4h (respirable aerosol)
Polymeric diphenylmethane diisocyanate	> 10000 mg/kg	> 9400 mg/kg	310 mg/m ³ /4h
Napthalene	490 mg/kg	> 2000 mg/kg	> 340 mg/m ³ /1h

CARCINOGENICITY

IARC: Naphthalene: 2B - Possibly carcinogenic to humans.

NTP: Naphthalene is reasonably anticipated to be a human carcinogen

OSHA: Not regulated as a carcinogen.

SENSITIZATION: This material is a skin and respiratory sensitizer.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: MDI: LC₅₀ (Brachydanio rerio) >500 mg/L/24h; EC₅₀ (Daphnia magna) 7060 mg/L/24h

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in accordance with local, state, provincial or national regulations.

EMPTY CONTAINER: Product residue is retained. Do not pressurize, cut, weld, braze, solder, drill, grind or expose container to heat, flame, sparks, static electricity or any other sources of ignition.

RCRA/EPA WASTE INFORMATION: If discarded in its purchased form, this material is not a RCRA hazardous waste.

GENERAL COMMENTS: The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured into drains, sewers or waterways.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Combustible liquids, NOS

TECHNICAL NAME: Petroleum Distillates

UN/NA NUMBER: NA1993

PACKING GROUP: III

OTHER SHIPPING INFORMATION: Not regulated in non-bulk packaging.

AIR (ICAO/IATA)

SHIPPING NAME: Not regulated.

VESSEL (IMO/IMDG)

SHIPPING NAME: Not regulated.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute, Chronic, Reactive.

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS	Comments
4,4'-Diphenylmethane diisocyanate	25 - 35	101-68-8	Diisocyanates category
Polymeric diphenylmethane diisocyanate	25 - 35	9016-87-9	Diisocyanates category
Napthalene	<= 5	91-20-3	

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
4,4'-Diphenylmethane diisocyanate	25 - 35	5000 lbs.
Napthalene	<= 5	100 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All components are in TSCA inventory.

RCRA STATUS: If discarded in its purchased form, this material is not a RCRA hazardous waste.

NATIONAL RESPONSE CENTER: Any spill or release to the environment above the RQ must be reported to the National Response Center (800-424-8802).

16. OTHER INFORMATION

PREPARED BY: L. Priest

COMMENTS:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
EC ₅₀	Median effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC ₅₀	Lethal concentration to 50% of exposed laboratory animals
LD ₅₀	Lethal dose to 50% of exposed laboratory animals
TWA	Time-weighted average
TLV	Threshold limit value
NIOSH	US National Institute of Occupational Safety and Health
NE	Not established
NTP	US National Toxicology Program
OEL	Occupational exposure limit
OSHA	US Occupational Safety Health Administration
PEL	Permissible exposure limit
RQ	Reportable quantity
STEL	Short term exposure limit

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