

BRC Adhesive Remover

December 8, 2014

Section 1: IDENTIFICATION

Product name BRC Adhesive Remover Other names n/a

Recommended use/restrictions cleaning
Use only as recommended on label or tech sheet.

Distributor/manufacturer Brothers Research Corporation
2245 Airpark Drive
Burlington, NC 27215
336.229.6480 or 1-800-638-7245

EMERGENCY TELEPHONE NUMBER (24-hours daily) CHEMTREC 1.800.424.9300

Section 2: HAZARDS IDENTIFICATION

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazard classification ACUTE TOXICITY - DERMAL, Category 4
ACUTE TOXICITY - INHALATION, Category 4
SKIN CORROSION/IRRITATION, Category 2
EYE DAMAGE/IRRITATION, Category 2B
ASPIRATION HAZARD, Category 1
FLAMMABLE LIQUIDS, Category 2

	EMERGENCY OVERVIEW	
	Clear liquid with hydrocarbon odor	
	DANGER	
	May be fatal if swallowed and enters airways	
	Causes skin and eye irritation	
	Highly flammable liquid and vapor	
	Harmful in contact with skin	
	Harmful if inhaled	
	This material is harmful to aquatic life.	

PRECAUTIONARY STATEMENTS

Prevention Wash hands thoroughly after handling.
Wear protective gloves and eye protection.
Keep away from heat, sparks, open flames, and hot surfaces.—No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical, ventilating, and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing mist and vapors.
Use only outdoors or in a well-ventilated area.

Response If swallowed: Immediately call a doctor. Do NOT induce vomiting.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Call a poison center if you feel unwell. Wash clothing before reuse.

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If skin irritation occurs: Get medical advice.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center if you feel unwell.

In case of fire: Use dry chemicals, carbon dioxide, or foam to extinguish. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

Storage Store locked up in a well-ventilated place. Keep cool.
Keep out of reach of children.

Disposal See *Section 13: DISPOSAL CONSIDERATIONS*.

Hazards not otherwise classified n/a Ingredient of unknown acute toxicity n/a

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient	% by wt.	CAS number	Synonyms
toluene	20-40	108-88-3	methyl benzene
xylene	20-40	1330-20-7	xylol
petroleum naphtha	20-40	8052-41-3	dry cleaning safety solvent, mineral spirits, Stoddard solvent

Section 4: FIRST AID MEASURES

Inhalation Move individual to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Eye contact If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice.

Skin contact If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water. If irritation occurs, get medical advice. Wash clothing before reuse.

Ingestion Do not induce vomiting. Do not give liquid. Get medical attention immediately.

SYMPTOMS/ EFFECTS

Inhalation nausea, headache, dizziness, fatigue, drowsiness, or unconsciousness / Vapor can irritate eyes and respiratory tract. May cause severe central nervous system depression

Eye contact stinging, watering, redness, swelling / Causes eye irritation.

Skin contact redness, itching, burning / Repeated contact can cause irritation.

Ingestion dizziness, loss of balance and coordination, unconsciousness, coma / Causes irritation to mouth, throat and stomach. Aspiration during vomiting can result in severe lung damage or death.

CHRONIC HEALTH EFFECTS

Deliberate long-term inhalation of high concentrations of toluene can cause permanent brain damage and damage to the liver, kidneys, and central nervous system. Effects include impaired speech, visual disturbances, and loss of balance, muscle control, and memory.

Section 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media dry chemicals, carbon dioxide, or foam

Specific hazards arising from the chemical When heated above the flash point, emits flammable vapors which when mixed with air can burn or explode. Mists of sprays may be flammable at temperatures below the flash point.

Hazardous thermal decomposition products carbon dioxide, carbon monoxide, other asphyxiates

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Special protective equipment for fire-fighters full protective equipment including self-contained breathing apparatus (SCBA)

Special precautions for fire-fighters Cool closed containers with water from fog nozzles to prevent pressure build up.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Keep personnel upwind from leak. Put on appropriate protective equipment (see Section 8). Eliminate all ignition sources. All equipment used when handling this material must be grounded. Vapor can be controlled using a water fog. Water streams should not be directed to the liquid as this will cause the liquid to boil and generate more vapor.

Environmental precautions Prevent spilled material from entering waterways, sewers, basements, and confined areas.

Methods for clean-up Absorb with dry earth, sand, or other non-combustible material then place by vacuum or sweep in a chemical waste container.

Section 7: HANDLING AND STORAGE

Handling Wash hands thoroughly after handling. Wear protective gloves and eye protection. Keep away from heat, sparks, open flames, and hot surfaces.—No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist and vapors. Use only outdoors or in a well-ventilated area.

Storage Keep container tightly closed. Store locked up in a cool, dry, well-ventilated area. Keep out of reach of children.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

toluene	ACGIH TWA: 20ppm [Visual impair, female reproductive, pregnancy loss] OSHA PEL-TWA, C: 200ppm, 300ppm, 500ppm 10-minute maximum peak NIOSH REL-TWA, ST: 100ppm (375mg/m ³), 150ppm (560mg/m ³)
xylene	ACGIH TWA, ST: 100ppm, 150ppm [URT&eye irr., CNS impair] OSHA PEL-TWA, ST, C: 100ppm 8hr, 150ppm, 300ppm NIOSH REL-TWA, ST: 100ppm 10hr, 150ppm
petroleum naphtha	ACGIH TWA: 100ppm [eye, skin & kidney damage, CNS impair] OSHA PEL-TWA: 500ppm (2900mg/m ³) NIOSH REL-TWA, C: 350mg/m ³ , 1800mg/m ³ [15 minute]

ENGINEERING CONTROLS Use ventilation and other controls adequate to maintain airborne concentrations or vapor below the above limits. Electrical equipment should comply with the National Electrical Code.

PERSONAL PROTECTION

Eye Wear chemical splash goggles and face shield.

Skin Avoid all skin contact by wearing impervious gloves, a synthetic apron and other protective equipment that is fire-retardant.

Respiratory Wear a NIOSH-approved organic vapor respirator for concentrations above the exposure guidelines. Respirators should be used in accordance with OSHA requirements (29CFR1910.134).

Hygiene measures Wash after handling. Do not eat, drink, or smoke in work areas.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Physical state liquid Color clear, colorless
Odor mixed hydrocarbons Odor threshold n/a pH n/a (max pH=14)
Melting point/freezing point n/a Boiling point/range 230°F Flash point 45°F
Evaporation rate n/a Upper/lower flammability or explosive limits 7% / 0.5%
Vapor pressure (20°C) 23.8mmHg Vapor density (air=1) >1 Relative density (water=1) 0.84
Solubility slight Partition coefficient: n-octanol/water n/a
Auto-ignition temperature 446°F Decomposition temperature n/a Viscosity n/a

Section 10: STABILITY AND REACTIVITY

Reactivity n/a
Chemical stability stable at normal temperatures and pressures
Possibility of hazardous reactions n/a
Conditions to avoid heat, ignition sources (sparks, open flame, static discharge)
Incompatible materials strong oxidizers
Hazardous decomposition products carbon oxides, other asphyxiates

Section 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure: skin and eye contact, inhalation, ingestion

SYMPTOMS

eye contact stinging, watering, redness, swelling
skin contact redness, itching, burning
inhalation nausea, headache, dizziness, fatigue, drowsiness, or unconsciousness
ingestion dizziness, loss of balance and coordination, unconsciousness, coma

ACUTE TOXICITY

Eye contact causes eye irritation
Skin contact Repeated contact can cause skin irritation.
Inhalation Vapor can irritate eyes and respiratory tract.
May cause severe central nervous system depression
Ingestion Causes irritation to mouth, throat and stomach
Aspiration during vomiting can result in severe lung damage or death.

CHRONIC TOXICITY

Skin contact Can cause defatting and drying of the skin which may result in irritation and dermatitis
Skin absorption May produce systemic toxicity
Inhalation Can cause liver and kidney damage
Target organs kidneys, liver, central nervous system, brain, skin

TOXICITY DATA Deliberate long-term inhalation of high concentrations of toluene has been shown to cause liver, kidney, central nervous system, and permanent brain damage.
Reported effects include impaired speech, visual disturbances, hearing loss, memory loss, and loss of balance and muscle control.

National Toxicology Program Report on Carcinogens (NTP) not listed

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International Agency for Research on Cancer Monographs (IARC) not listed

OSHA (carcinogens) not listed

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity harmful to aquatic life

Section 13: DISPOSAL CONSIDERATIONS

Disposal Avoid disposal. Attempt to use product completely in accordance with intended use.
Dispose of in accordance with federal, state and local regulations.

RCRA class Unused product is D001 (Ignitable) and D018 (Toxic).

Section 14: TRANSPORT INFORMATION

US DOT shipping description NA1993, Compound, cleaning liquid (Toluene, Xylene), 3, PG III

Section 15: REGULATORY INFORMATION

TSCA All components are listed.

SARA 313, Form R no listed substance

Section 16: OTHER INFORMATION

HMIS (health 2*, flammability 3, reactivity 0); NFPA (health 2*, flammability 3, reactivity 0)
*chronic health hazard *chronic health hazard

Abbreviations: ACGIH American Conference of Governmental Industrial Hygienists, Inc.
CNS central nervous system
n/a no applicable information available
NIOSH National Institute for Occupational Safety and Health
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
REL Recommended Exposure Limit
SARA Superfund Amendments and Reauthorization Act
STEL Short Term Exposure Limit
TLV Threshold Limit Value
TSCA Toxic Substance Control Act
TWA Time Weighted Average
URT Upper Respiratory Tract

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