

SAFETY DATA SHEET



Date Prepared : 11/05/2013
 SDS No : CHALLENGE 95
 Date Revised : 01/26/2016
 Revision No : 1

CHALLENGE 95

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CHALLENGE 95
GENERAL USE: Release agent

MANUFACTURER

BJB Enterprises, Inc.
 14791 Franklin Avenue
 Tustin, CA 92780
Emergency Phone: (714) 734-8450

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (USA & Canada): (800) 424-9300
 or (703) 527-3887 CCN# 2820

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS**Health:**

Skin Irritation, Category 2
 Eye Irritation, Category 2A
 Reproductive Toxicity, Category 2
 Target Organ Toxicity (Single exposure), Category 3
 Target Organ Toxicity (Repeated exposure), Category 2
 Aspiration Hazard, Category 1

Environmental:

Chronic Hazards to the Aquatic Environment, Category 3

Physical:

Flammable Liquids, Category 2

GHS LABEL

Flame

Exclamation
mark

Health hazard

SIGNAL WORD: DANGER**HAZARD STATEMENTS**

H225: Highly flammable liquid and vapour.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H361: Suspected of damaging fertility or the unborn child.
 H336: May cause drowsiness or dizziness.
 H373: May cause damage to organs through prolonged or repeated exposure.
 H304: May be fatal if swallowed and enters airways.
 H412: Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS**Prevention:**

P201: Obtain special instructions before use.

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- P202: Do not handle until all safety precautions have been read and understood.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233: Keep container tightly closed.
 P240: Ground and bond container and receiving equipment.
 P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.
 P242: Use non-sparking tools.
 P243: Take action to prevent static discharges.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area.
 P264: Wash thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P273: Avoid release to the environment.

Response:

- P370+P378: In case of fire: Use water spray, carbon dioxide, dry chemical, or foam for extinction.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.
 P331: Do NOT induce vomiting.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P363: Wash contaminated clothing before reuse.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312: Call a POISON CENTER/doctor/physician if you feel unwell.
 P314: Get medical advice/attention if you feel unwell.

Storage:

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P235: Keep cool.
 P405: Store locked up.

Disposal:

- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Warning! Flammable liquid and vapor. Aspiration hazard. DO NOT induce vomiting if swallowed. Causes eye and skin irritation. Keep away from heat, sparks, and flames. Vapors can travel to a source of ignition and flash back.

POTENTIAL HEALTH EFFECTS

EYES: Causes serious eye irritation.

SKIN: Causes skin irritation.

INGESTION: Aspiration hazard. This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

INHALATION: May be harmful if inhaled.

MEDICAL CONDITIONS AGGRAVATED: None Known

ROUTES OF ENTRY: Eye and skin contact, inhalation of vapors, or accidental ingestion.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Toluene	40 - 80	108-88-3
Isopropyl alcohol	0 - 20	67-63-0
1,2,4-trimethylbenzene	5 - 10	95-63-6
Stoddard solvent	5 - 10	8052-41-3

4. FIRST AID MEASURES

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EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if irritation or rash develops. Wash clothing before reuse.

INGESTION: Aspiration hazard. If swallowed, DO NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

INHALATION: Remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get immediate medical attention.

NOTES TO PHYSICIAN: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

5. FIRE FIGHTING MEASURES

GENERAL HAZARD: Flammable liquid and vapor.

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

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide and carbon dioxide.

EXPLOSION HAZARDS: Temperatures at or above the flash point could generate combustible mixtures. Avoid all ignition sources. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

FIRE FIGHTING PROCEDURES: Remove containers from the fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

FIRE FIGHTING EQUIPMENT: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires.

SENSITIVE TO STATIC DISCHARGE: This material can accumulate static charges which can cause an incendiary electrical discharge.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Eliminate sources of ignition. Evacuate the area. Clean-up should only be performed by trained personnel. People dealing with a major spill should wear full protective clothing including appropriate respiratory protection. Prevent product spill from entering sewers or waterways. Neutralize small spills with a decontaminant.

LARGE SPILL: Contain and absorb large spills onto an inert, non-flammable adsorbent carrier (such as earth or sand). Do not use combustible materials such as saw dust. Use only spark resistant and explosion proof recovery devices. Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spill area clean with a liquid decontaminant. Remove and properly dispose of residues. Notify applicable government authorities if release is reportable. (See CERCLA in Section 15).

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not discharge into drains or rivers.

GENERAL PROCEDURES: Refer to section 8 of SDS for personal protection details.

RELEASE NOTES: Composition and extent of any spill should be evaluated against local regulations and reported to the proper agencies, if necessary.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Flammable liquid. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Avoid breathing vapor over open containers. Avoid open container exposure to damp air. Avoid breathing aerosols, mists, and vapors.

HANDLING: Use in a well ventilated area. Avoid heat, sparks, and open flames. Avoid breathing vapor and contact with eyes, skin, and clothing. Use appropriate personal protective equipment as specified in Section 8. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

STORAGE: Store in a dry and well-ventilated place, away from excessive heat in the original or similar container. Avoid sources of ignition and incompatible materials. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials. Avoid unnecessary contact.

STORAGE TEMPERATURE: 65-80°F (18-27°C)

SHELF LIFE: 12 months from date of shipment under manufacturers recommended storage conditions.

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ELECTROSTATIC ACCUMULATION HAZARD: This material can accumulate static charges which can cause an incendiary electrical discharge. Use proper bonding and/or grounding procedure.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m ³
Toluene	OSHA PEL	TWA	200	NE
		STEL	300	NE
	ACGIH TLV	TWA	50	188
		STEL	NE	NE
	Supplier OEL	TWA	100 ^[1]	375 ^[1]
		STEL	150 ^[1]	560 ^[1]
Isopropyl alcohol	OSHA PEL	TWA	400	980
		STEL	NE	NE
	ACGIH TLV	TWA	200	490
		STEL	400	960
	Supplier OEL	TWA	NE	NE
		STEL	NE	NE
1,2,4-trimethylbenzene	OSHA PEL	TWA	NE	NE
		STEL	NE	NE
	ACGIH TLV	TWA	25	123
		STEL	NE	NE
	Supplier OEL	TWA	25 ^[1]	125 ^[1]
		STEL	NE	NE
Stoddard solvent	OSHA PEL	TWA	500	2900
		STEL	NE	NE
	ACGIH TLV	TWA	100	572
		STEL	NE	NE
	Supplier OEL	TWA	350 ^[1]	NE ^[1]
		STEL	NE	NE

Footnotes:
1. NIOSH REL

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety goggles or glasses are recommended. Plastic face shields should be used for complete face protection to protect against possible splashing or spraying of material. ANSI Z87.1 or approved equivalent.

SKIN: Chemical-resistant gloves and chemical goggles, face-shield, and synthetic apron or coveralls should be used to prevent contact with

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eyes, skin, or clothing. Wear nitrile or neoprene gloves. Chemical resistant gloves lined with polyethylene offer maximum protection.

RESPIRATORY: Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH approved) may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Observe OSHA regulations for respirator use (29 CFR 1910.134).

PROTECTIVE CLOTHING: Protective clothing should be selected and used in accordance with 'Guidelines for the Selection of Chemical Protective Clothing' published by ACGIH.

WORK HYGIENIC PRACTICES: Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited. Wash hands before eating.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Training is important. Follow all label precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Solvent

COLOR: Yellow

pH: Not Applicable

PERCENT VOLATILE: 90-95

FLASH POINT AND METHOD: 4°C (39.2°F) Closed Cup (Toluene)

VAPOR PRESSURE: Not Established

VAPOR DENSITY: Not Established

BOILING POINT: Not Established

SOLUBILITY IN WATER: Negligible

SPECIFIC GRAVITY: 0.87 (water=1) at 25°C (77°F)

VISCOSITY: Not Established

(VOC): 783.000 to 826.5 g/l Calculated. Theoretical VOC minus water and exempt solvents.

10. STABILITY AND REACTIVITY

REACTIVITY: Hazardous reactions will not occur under normal transport or storage conditions.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

STABILITY: This product is stable under the recommended storage conditions.

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide.

INCOMPATIBLE MATERIALS: Strong acids, strong bases, and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

Chemical Name	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
Toluene	636 mg/kg	2 to 14 g/kg	26700 ppm (1h)
Isopropyl alcohol	5045 mg/kg	12800 mg/kg	1600 ppm (8 h)
1,2,4-trimethylbenzene	12.7 g/kg	Not Established	18 g/m ³
Stoddard solvent	> 6000 mg/kg	> 3000 ml/kg	5500 mg/m ³ (4 h)

SKIN CORROSION/IRRITATION: Causes skin irritation.

SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION: No data available.

GERM CELL MUTAGENICITY: No data available.

CHALLENGE 95**CARCINOGENICITY**

Chemical Name	IARC Status
Toluene	3
Isopropyl alcohol	3

IARC: This product contains substances that are not classifiable as carcinogens to humans.

REPRODUCTIVE TOXICITY: Suspected of damaging fertility. Suspected of damaging the unborn child.

STOT-SINGLE EXPOSURE: May cause drowsiness or dizziness.

STOT-REPEATED EXPOSURE: May cause damage to organs through prolonged or repeated exposure.

ASPIRATION HAZARD: May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product may cause risk of hazardous effects to the environment.

ECOTOXICOLOGICAL INFORMATION: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Avoid release to the environment.

BIOACCUMULATION/ACCUMULATION: No data available.

DISTRIBUTION: No data available.

CHEMICAL FATE INFORMATION: No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protections and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

EMPTY CONTAINER: Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)**

PROPER SHIPPING NAME: Flammable liquids, n.o.s.

TECHNICAL NAME: (toluene, mineral spirits)

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1993

PACKING GROUP: II

NAERG: 128

LABEL: Flammable liquid

AIR (ICAO/IATA)

SHIPPING NAME: Flammable liquid, n.o.s.

TECHNICAL NAME: (toluene, mineral spirits)

UN/NA NUMBER: UN1993

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: II

ERG: 3H

LABEL: Flammable liquid

CHALLENGE 95**VESSEL (IMO/IMDG)****SHIPPING NAME:** Flammable liquid, n.o.s.**TECHNICAL NAME:** (toluene, mineral spirits)**UN/NA NUMBER:** UN1993**PRIMARY HAZARD CLASS/DIVISION:** 3**PACKING GROUP:** II**LABEL:** Flammable liquid**SPECIAL PROVISIONS:** EmS: F-E, S-E**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** Acute health hazard. Chronic health hazard. Fire hazard.**313 REPORTABLE INGREDIENTS:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt. %	CAS
Toluene	40 - 80	108-88-3
Isopropyl alcohol	0 - 20	67-63-0
1,2,4-trimethylbenzene	5 - 10	95-63-6

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)**CERCLA REGULATORY:** For this/these chemicals, release of more than the Reportable Quantity to the environment in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675):

Chemical Name	Wt. %	CERCLA RQ
Toluene	40 - 80	1,000 lbs.

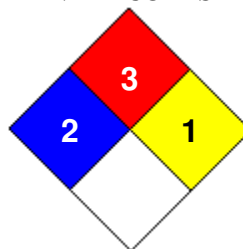
TSCA (TOXIC SUBSTANCE CONTROL ACT)**TSCA REGULATORY:** This product does not contain any chemicals subject to TSCA Section 12(b) export notification.**TSCA STATUS:** This product or its components are listed in or exempt from the TSCA inventory requirements.**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)****29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** None of the chemicals in this product are considered highly hazardous by OSHA.**CALIFORNIA PROPOSITION 65:** This product contains chemical(s) which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Chemical Name	Wt. %	Listed
Toluene	40 - 80	<ul style="list-style-type: none"> ● Cancer ● Developmental Toxicity

OSHA HAZARD COMM. RULE: The contents of the SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.**CANADA****WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.**DOMESTIC SUBSTANCE LIST (INVENTORY):** All components in this product are listed in or exempted from the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).**16. OTHER INFORMATION**

CHALLENGE 95**REASON FOR ISSUE:** Revision**Date Revised:** 01/26/2016**REVISION SUMMARY:** This SDS replaces the 11/05/2013 SDS.**HMIS RATING**

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		1
PERSONAL PROTECTION		X

NFPA CODES**HMIS RATINGS NOTES:** Personal Protection: See Section 8**MANUFACTURER DISCLAIMER:** This information is furnished without warranty, expressed or implied, except that is accurate to the best knowledge of BJB Enterprises, Inc. The data on this sheet relates only to the specific material designated herein. BJB Enterprises, Inc. assumes no legal responsibility for use or reliance upon this data.