

Material Safety Data Sheet

CHALLENGE 90

Date of Preparation: 02/01/2005

Revision: 02/01/2005

Section 1 - Chemical Product and Company Identification

Product Name: CHALLENGE 90

Product Class: Liquid external release agent

Chemical Type: Phosphate esters, polyolefins in solvent blend

Manufacturer: BJB Enterprises, Inc., 14791 Franklin Avenue, Tustin, CA 92780, Phone (714) 734-8450, Fax (714) 734-8929, (M-Th: 8-4:30, F: 7:30-4), Emergency Phone: Chemtrec (800) 424-9300 or (703) 527-3887

Section 2 - Composition / Information on Ingredients

Ingredient Name	CASRN	% wt
1. Xylene	1330-20-7	30-40
2. Ketone	67-64-1	20-25
3. Aliphatic hydrocarbon	64742-47-8	20-25
4. Petroleum naphtha	64742-89-8	10-20

Trace Impurities: N/A

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
#1	100 ppm	NE	100 ppm	NE	NE	NE	NE
#2	200 ppm	NE	200 ppm	NE	NE	NE	NE
#3	NE	NE	NE	NE	NE	NE	NE
#4	NE	NE	NE	NE	NE	NE	NE

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Beige liquid; Odor: Solvent odor; Avoid skin contact. Avoid breathing vapors. May cause eye and skin irritation. Harmful if inhaled. Use in well-ventilated areas. Avoid static charges and high heat. Avoid possible toxic combustion products.

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Potential Health Effects

Primary Entry Routes: Eye and skin contact; inhalation of vapors, accidental ingestion.

Inhalation/Ingestion: May cause irritation in high concentrations. May induce nausea, headache, or light-headedness.

Eye: May cause irritation and redness.

Skin: May cause irritation and dryness.

Medical Conditions Aggravated by Long-Term Exposure: Respiratory problems aggravated by breathing vapors.

Section 4 - First Aid Measures

Inhalation: Not likely. Remove to fresh air environment.

Ingestion: If swallowed, call a physician immediately. DO NOT induce vomiting. Never give anything by mouth to an unconscious person.

Eye Contact: Flush eyes with clean, lukewarm water for 15 minutes. Obtain medical attention if irritation develops.

Skin Contact: Remove contaminated clothing and wash affected areas well with soap and water. Launder contaminated clothing before use.

Note to Physicians: Treat any ill effects symptomatically.

Section 5 - Fire-Fighting Measures

Flash Point/Method: <73°F (<23°C) C.O.C.

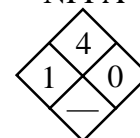
Extinguishing Media: Foam, carbon dioxide, dry chemical, or water fog.

Unusual Fire or Explosion Hazards: Avoid static charges. Combustion in the presence of air may yield carbon dioxide and/or carbon monoxide, toxic gases, smoke and vapor.

Fire-Fighting Instructions: Cool fire exposed containers with water spray. Remove containers from fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Firefighters must wear positive pressure self-contained breathing apparatus (SCBA) for fighting large fires. Consider the use of unmanned hose holders or monitor nozzles when fighting large fires.

NFPA



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Eliminate all sources of ignition. Provide adequate ventilation and wear personal protective equipment. Evacuate personnel as a precaution. Prevent product spill from entering sewers, streams, or drinking water supplies. Collect liquid or soak up with inert filler or an absorbent such as dry earth, sand or oil absorbent (sweeping) compound. Collect liquid into suitable containers for disposal. Wash area with dilute ammonia solution.

Containment: For large spills, dike ahead of liquid spill for later neutralization, absorption, clean up, and disposal.

Section 7 - Handling and Storage

Handling Precautions: Avoid contact with eyes, skin and clothing. Avoid breathing vapor directly over open container. Keep containers closed when not in use.

Storage Requirements: Store in a cool, dry place away from excessive heat in original or similar waterproof containers. Avoid unnecessary contact. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials.

Shelf life: 12 months from date of shipment under manufacturers recommended storage conditions.

Section 8 - Exposure Controls / Personal Protection

Eye Protection Requirements: Safety goggles or glasses are recommended. Plastic face shield should be worn for complete face protection.

Skin Protection Requirements: Impermeable gloves should be worn. Employees should wash their hands and face before eating, drinking, or using tobacco products.

Ventilation/Respiratory Requirements: Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator 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).

Additional Protective Measures: Safety showers and eye wash stations should be easily accessible to the work area. Working training is important. Follow all label precautions.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Beige; solvent odor

Vapor Pressure: >10 mm Hg at 68°F (20°C)

Specific Gravity (H₂O=1): 0.82

pH: N/A

Water Solubility: Insoluble

Boiling Point: 120°-160°F (49°-71°C) range

% Volatile: 92

V.O.C. (ref EPA meth 24): 755 g/l

Section 10 - Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities/Conditions to Avoid: Strong oxidizing agents and water/Avoid open flame and welding arcs and other high temperature sources.

Hazardous Decomposition: Combustion in the presence of air may yield carbon dioxide and/or carbon monoxide, toxic gases, smoke and vapor.

Section 11- Toxicological Information

No Toxicological Information Available

Section 12 - Ecological Information

No Ecological Information Available

Section 13 - Disposal Considerations

Waste Disposal Method: Dispose of in accordance with all RCRA and EPA regulations for ignitable waste.

Section 14 - Transport Information

Shipping Name: Flammable liquid, n.o.s.
Technical Name: (xylene, ketone solution)
Hazard Class: Class 3
ID No.: UN1993
Packing Group: II
Label: Flammable Liquid

DOT (USA): Regulated
Class 3, PG II
IATA/ICAO: Regulated
Class 3, PG II
IMO/IMDG: Regulated
Class 3, PG II

Section 15 - Regulatory Information**U.S. Federal Regulations:****OSHA:**

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard.

SARA TITLE III:

Sections 311/312 Hazard Classification: None

Section 313: This product contains the following substances subject to the reporting requirements of EPCRA, Section 313 and 40 CFR Part 372:

Xylene	CAS Number – 1330-20-7	40% (max.)
Ketone	CAS Number – 67-64-1	25% (max.)

TSCA: This product or its components are listed in or exempt from the TSCA inventory requirements.

This product contains the following substances subject to export notification under Section 12 (b) of TSCA:

None

Section 16 - Other Information

Reason for Issue: Revised Sections 2, 4, 5, 7, 9, 10, 14, & 15

Prepared By: M. Rose

Approval Date: 02/01/2005

Supersedes Date: 08/19/1999

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