

# SAFETY DATA SHEET



Date Prepared : 09/19/2006  
 SDS No : AF-4 DEFOAMER  
 Date Revised : 10/10/2017  
 Revision No : 5

## AF-4 DEFOAMER

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** AF-4 DEFOAMER  
**GENERAL USE:** Anti-foaming agent; defoamer

#### 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:

Carcinogenicity, Category 2  
 Target Organ Toxicity (Single exposure), Category 3  
 Aspiration Hazard, Category 1

##### Physical:

Flammable Liquids, Category 4

#### GHS LABEL



Health hazard



Exclamation  
 mark

#### SIGNAL WORD: DANGER

#### HAZARD STATEMENTS

H227: Combustible liquid.  
 H351: Suspected of causing cancer.  
 H336: May cause drowsiness or dizziness.  
 H304: May be fatal if swallowed and enters airways.

#### PRECAUTIONARY STATEMENTS

##### Prevention:

P201: Obtain special instructions before use.  
 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.  
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P271: Use only outdoors or in a well-ventilated area.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

##### Response:

P370+P378: In case of fire: Use water spray, carbon dioxide, dry chemical, or foam for extinction.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P312: Call a POISON CENTER/doctor/physician if you feel unwell.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

P331: Do NOT induce vomiting.

P308+P313: IF exposed or concerned: Get medical advice/ attention.

**Storage:**

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

**Disposal:**

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

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt. %	CAS
Solvent naphtha (petroleum), heavy aromatic	40 - 70	64742-94-5
Naphtha (petroleum), hydrotreated heavy	10 - 30	64742-48-9
1,2,4-trimethylbenzene	< 1	95-63-6
Naphthalene	< 1	91-20-3

**4. FIRST AID MEASURES**

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

**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:** If swallowed, call a physician immediately. Do NOT induce vomiting. Provided the patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person.

**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**

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

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide and carbon dioxide.

**EXPLOSION HAZARDS:** Vapors are flammable and heavier than air. Vapors may travel along the ground and reach remote ignition sources causing a flashback fire danger.

**FIRE FIGHTING PROCEDURES:** Cool fire exposed containers with water spray. 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

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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:** Keep away from sources of ignition. 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 appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area. 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.

**ELECTROSTATIC ACCUMULATION HAZARD:** This material can accumulate static charges which can cause an incendiary electrical discharge.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**AF-4 DEFOAMER****EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	EXPOSURE LIMITS			
	Type		ppm	mg/m <sup>3</sup>
Solvent naphtha (petroleum), heavy aromatic	OSHA PEL	TWA	-	-
		STEL	-	-
	ACGIH TLV	TWA	-	-
		STEL	-	-
	NIOSH REL	TWA	-	-
		STEL	-	-
Naphtha (petroleum), hydrotreated heavy	OSHA PEL	TWA	-	-
		STEL	-	-
	ACGIH TLV	TWA	-	-
		STEL	-	-
	NIOSH REL	TWA	-	-
		STEL	-	-
1,2,4-trimethylbenzene	OSHA PEL	TWA	-	-
		STEL	-	-
	ACGIH TLV	TWA	25	123
		STEL	-	-
	NIOSH REL	TWA	25	125
		STEL	-	-
Naphthalene	OSHA PEL	TWA	10	50
		STEL	-	-
	ACGIH TLV	TWA	10	52
		STEL	15	79
	NIOSH REL	TWA	10	50
		STEL	15	75

**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 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.

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**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:** Aromatic hydrocarbon

**COLOR:** Colorless

**pH:** No data available

**PERCENT VOLATILE:** 85

**FLASH POINT AND METHOD:** 61.7°C (143°F) Pensky-Martens CC

**VAPOR PRESSURE:** < 1 mmHg at 20°C (68°F)

**VAPOR DENSITY:** No data available

**BOILING POINT:** > 148.9°C (300°F)

**SOLUBILITY IN WATER:** Negligible

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

**VISCOSITY #1:** 20 Centipoise at 25°C (77°F)

**(VOC):** < 740 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.

**STABILITY:** This product is stable under normal ambient conditions of temperature and pressure.

**CONDITIONS TO AVOID:** Heat, flames, and ignition sources.

**POSSIBILITY OF HAZARDOUS REACTIONS:** No data available

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide and carbon dioxide.

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents.

**11. TOXICOLOGICAL INFORMATION****ACUTE TOXICITY**

Chemical Name	ORAL LD <sub>50</sub>	DERMAL LD <sub>50</sub>	INHALATION LC <sub>50</sub>
Solvent naphtha (petroleum), heavy aromatic	> 5000 mg/kg Rat	> 2000 mg/kg Rabbit	No data available
Naphtha (petroleum), hydrotreated heavy	> 5000 mg/kg Rat	> 3160 mg/kg Rabbit	No data available
1,2,4-trimethylbenzene	> 3440 mg/kg Rat	No data available	18 mg/l Rat (4 h)
Naphthalene	490 mg/kg Rat	20000 mg/kg Rabbit	> 0.4 mg/l Rat (4 h)

**SKIN CORROSION/IRRITATION:** No data available

**SERIOUS EYE DAMAGE/IRRITATION:** No data available

**RESPIRATORY OR SKIN SENSITISATION:** No data available

**GERM CELL MUTAGENICITY:** No data available

**CARCINOGENICITY**

Chemical Name	NTP Status	IARC Status
Naphthalene	2	2B

**REPRODUCTIVE TOXICITY:** No data available

**AF-4 DEFOAMER****STOT-SINGLE EXPOSURE:** May cause drowsiness or dizziness.**STOT-REPEATED EXPOSURE:** No data available**ASPIRATION HAZARD:** May be fatal if swallowed and enters airways.**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:** No data available**ECOTOXICOLOGICAL INFORMATION:** No specific ecological data are available for this product. Refer to Section 6 for information regarding accidental release and Section 15 for regulatory reporting information.**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):** Not Regulated**AIR (ICAO/IATA):** Not Regulated**VESSEL (IMO/IMDG):** Not Regulated**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
Naphthalene	< 1	91-20-3

**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
Naphthalene	< 1	100 lbs.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA STATUS:** This product or its components are listed in or exempt from the TSCA inventory requirements.**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)****29 CFR 1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** None of the chemicals in

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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
Naphthalene	< 1	Cancer

**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).

**GENERAL COMMENTS:** No data available

**16. OTHER INFORMATION**

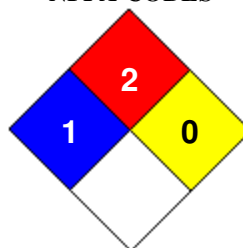
**REASON FOR ISSUE:** Revision

**Date Revised:** 10/10/2017

**REVISION SUMMARY:** This SDS replaces the 10/09/2014 SDS.

**HMIS RATING**

<b>HEALTH</b>	*	<b>2</b>
<b>FLAMMABILITY</b>		<b>2</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>X</b>	

**NFPA CODES**

**HMIS RATINGS NOTES:** Personal Protection: See Section 8

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