

Material Safety Data Sheet

IN-RAIL FUEL INJECTOR CLEANER FUEL TREATMENT

MSDS No. 018

Date of Preparation: 10/29/99

Revised: 06/23/00

Section 1 - Chemical Product and Company Identification

Product Name: IN-RAIL FUEL INJECTOR CLEANER FUEL TREATMENT

Part Number(s): 1120, 1126, 1127, 9020 (Blend PFIC)

CAS Number: NOT APPLICABLE TO MIXTURES

Product Class: Automotive product

Manufacturer: Berryman Products, Inc., 3800 E. Randol Mill Rd., Arlington, TX 76011-5434

Information Phone No.: 1-800-433-1704 **Emergency Phone No.:** 1-800-535-5053

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt
MIXED XYLENES	1330-20-7	65-75
INJECTOR CLEANER CONCENTRATE	Mixture	10-15
2-BUTOXYETHANOL	111-76-2	10-15
ETHYL BENZENE	100-41-4	5-15
METHYL ETHYL KETONE	78-93-3	<5
ACETONE	67-64-1	<5
METHANOL	67-56-1	<2

Ingredient	OSHA TWA	ACGIH TWA	ACGIH STEL
MIXED XYLENES	100	100	150
INJECTOR CLEANER CONCENTRATE	Not established	Not established	Not established
2-BUTOXYETHANOL	50	20	NA
ETHYL BENZENE	100	100	125
METHYL ETHYL KETONE	200	200	300
ACETONE	1000	500	750
METHANOL	200	200	250

Section 3 - Physical and Chemical Properties

Physical State: LIQUID

Appearance and Odor: CLEAR, AMBER, XYLENE

Vapor Density (Air=1): HEAVIER THAN AIR

Specific Gravity (@ 20 °C): 0.868

Density: 7.23 lbs/gal

Boiling Range: 133-378 °F

Refractive Index (@ 25 °C): 1.4749

% Volatile: 97

Evaporation Rate: SLOWER THAN ETHER

Vapor Pressure (@ 68 °F): 9 mm/Hg (Major component)

Section 4 - Fire-Fighting Measures

Flash Point: 50 °F

Flash Point Method: CC

LEL: 1.1% v/v (Major component)

Flammability Classification: Class IB

Extinguishing Media: Carbon dioxide, alcohol-resistant foam, dry chemicals.

Unusual Fire or Explosion Hazards: Extremely flammable liquid. Vapors can cause flash fire.

Special Fire-Fighting Procedures: Do not release runoff from fire control methods to sewers or waterways. Wear self-contained breathing apparatus pressure demand, MSNA/OSHA (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

NFPA



Section 5 - Stability and Reactivity

Stability: Stable.

Polymerization: Hazardous polymerization will not occur.

Incompatibilities & Conditions to Avoid: Isolate from oxidizers, heat, sparks, electric equipment and open flame.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

Section 6 - Health Hazard Information

Potential Health Effects

Primary Entry Routes: Skin, dermal, inhalation and ingestion.

Target Organs: Eyes, skin, respiratory system, liver and kidneys.

Effects of Overexposure: May cause irritation to the eyes, skin, nose, throat, gastrointestinal and respiratory system. Nausea, headache, light-headedness, dizziness, and dermatitis. Harmful or fatal if swallowed.

Carcinogenicity: IARC, NTP, and OSHA do not list any component of this product as a carcinogen.

Chronic Effects: May affect liver, kidneys and central nervous system.

Emergency and First Aid Procedures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

Eye Contact: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

Skin Contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Ingestion: GET MEDICAL ATTENTION IMMEDIATELY. Do not induce vomiting.

Section 7 - Spill, Leak, and Disposal Procedures

Spill /Leak Procedures: Eliminate all sources of ignition. Stop spill at source. Wear appropriate personal protective equipment (Sec. 8). Contain the spill to facilitate clean up with absorbent. Use non-sparking tools and equipment. Transfer to disposal containers. Do not release into sewers or waterways.

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 8 - Exposure Controls / Personal Protection

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Respirator not required if airborne concentrations are below OSHA PELs (Sec. 2). If necessary, follow OSHA respirator regulations (29 CFR 1910.134) and wear an MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Protective Clothing/Equipment: Wear chemically protective gloves and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Special Precautions and Comments

Handling Precautions: Avoid prolonged breathing of vapor and contact with eyes, skin, and clothing. Use in well ventilated area. Wash thoroughly after handling.

Storage Requirements: Keep away from heat, sparks and flame. Keep container closed when not in use.

NOTE: Contents under pressure and do not expose to heat or store above 120 °F are applicable for Part #'s 1120 and 9020 ONLY.

California Proposition 65: This product contains the following chemicals known to the state of California to cause cancer and/or reproductive toxicity: None.

DOT Transportation Data (49 CFR 172.101):

<u>PART NUMBER(s)</u>	<u>SHIPPING NAME</u>	<u>HAZARD CLASS</u>	<u>ID NO.</u>	<u>PACKING GROUP</u>
1120, 1126, 9020	Consumer Commodity	ORM-D	N/A	N/A
1127	Flammable Liquids, N.O.S., contains (Xylene)	3	UN 1993	II

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know-Act of 1986 & of 40CFR 372:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% wt.</u>
Mixed xylenes	1330-20-7	65-75
Methyl ethyl ketone	78-93-3	10-15
Ethyl benzene	100-41-4	5-15
Methanol	67-56-1	<2

Prepared By: Morie Stone

Disclaimer: All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publications of use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.