

Material Safety Data Sheet

Approval Date 12/3/2012 Supersedes Date 12/2/2012

| Section I. Chemical Product and Company Identification | | | | |
|--|---|--|--|--|
| Product Name/ Trade Name | FORMULA 491 | Product 411-20-0028-004; 411-20-0028-005; 411-20-0028-016; 411-20-0028-055; 411-20-0028-275 | | |
| Supplier | JOHN BEAN TECHNOLOGIES CORPORATION JBT FOODTECH 1622 FIRST STREET SANDUSKY, OH 44870 USA | Emergency Telephone In the event of a chemical spill, release, poisoning or exposure, Call 3E Company, Inc.: 800-451-8346 (North America) 001 760-602-8897 International | | |
| Synonym(s) | None | Non-Emergency Contact | | |
| Chemical Family | Petroleum hydrocarbon oil blend | JBT PHONE: 800-408-7788 JBT FAX: 419-626-4253 | | |
| Chemical Formula | Mixture | | | |
| Material Uses | Incidental-contact food machinery lubricant | | | |

| Section II. Composition and Information on Ingredients | | | | |
|--|--------------------------|---------|-------------|--|
| Name | PEL/TLV, Source | CAS# | % by Weight | |
| PROPRIETARY FORMULA. | 5 mg/m³ (oil mist), OSHA | Mixture | 100 | |

LC₅₀, LD₅₀ of Ingredients Not available

| Section III. Hazards Identification | | |
|-------------------------------------|---|--|
| Emergency Overview | Potential health risks vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be | |

minimized.

Potential Health Effects:

Eye Contact May cause slight irritation and redness.

Skin Contact Contact with skin is not expected to cause prolonged or significant irritation. This product is not expected to be harmful to internal

organs if absorbed through the skin.

Ingestion Ingestion may cause irritation of the digestive tract. Aspiration into lungs can cause pneumonitis, which can be fatal.

Inhalation Vapor inhalation under ambient conditions is not normally a problem. May cause respiratory irritation or other pulmonary effects

following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit.

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Section III. Hazards Identification (cont'd)

HMIS Code Health: 1 Fire: 1 Physical Hazard: O O Minimal Hazard 3 Serious Hazard

1 Slight Hazard 4 Severe Hazard 2 Moderate Hazard

Section IV. First Aid Measures

Eye Contact Remove contact lenses, if wearing. Flush eyes with large amounts of water, lifting lids to ensure thorough flushing. If irritation or

other symptoms persist, call a physician.

Skin Contact Remove clothing and shoes, if contaminated. Wash skin with soap and water. Wash or clean contaminated clothing before reuse

and discard oil-soaked shoes. If irritation persists, consult a physician.

Ingestion If swallowed, DO NOT induce vomiting. As a precaution, give the person a glass of water to drink and seek medical attention.

Never give anything by mouth to an unconscious person. Consult a physician.

Inhalation If exposed to excessive levels of material in the air, move the exposed person to fresh air. If breathing is difficult, give oxygen;

seek medical attention if respiratory difficulties continue. If not breathing, give artificial respiration and seek medical attention

immediately.

Section V. Fire and Explosion Data

Autoignition Temperature Not available

Flash Point 514°F (268°C), ASTM D 92

Flammable Limits (Approx.) LOWER Flammable Limit: Not available UPPER Flammable Limit: Not available

Explosion Hazards See Lower and Upper Flammable Limits

Products of Combustion Carbon monoxide, carbon dioxide, smoke and irritating vapors as products of incomplete combustion.

Fire Fighting Media and Instructions

Carbon dioxide (CO₂), dry powder, foam, water fog

Special Remarks -Fire and Explosion Hazards Pressure build-up due to heat exposure may cause containers to rupture. Use water spray to keep containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for the firefighters. Leaks/ruptures in high-pressure systems using materials of this type can create a fire hazard when in the vicinity of ignition sources (open flame, pilot

lights, sparks or electric arcs).

Section VI. Accidental Release Measures

Release or Spill Recover free product. Add sand, earth, or other suitable absorbent material to the spill area. Minimize breathing vapors.

Minimize skin contact. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding.

Advise authorities if the product has entered or may enter sewers, watercourses, or extensive land areas.

Environmental Impact Report spills as required to the appropriate authorities. U.S Coast Guard Regulations require immediate reporting of spills that

could reach any waterway including intermittent dry creeks. Report spill to the Coast Guard toll-free number 800-424-8802.

Section VII. Handling and Storage

Handling

Keep away from heat, sparks, open flame or where temperature may exceed 49°C (120°F). "Empty" containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, or grind such containers as they may explode and

can cause injury or death. Use only with adequate ventilation. Do not breathe vapor or mist. Do not take internally. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Do not transfer to nor store in an unmarked container. Read label and MSDS before using. Do not smoke when handling or using this product. Do not use in high-pressure systems in the vicinity of

flames, sparks and hot surfaces. Empty container should be promptly returned to a drum reconditioner. For industrial use only.

Storage Store in tightly sealed containers. Store in a cool, dry place out of direct sunlight. Do not store near heat, sparks, open flame, pilot

lights, static electricity, or where temperature may exceed 49°C (120°F). Rotate stock.

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Section VIII. Exposure Controls and Personal Protection

Use respiratory protection if needed to keep airborne levels below recommended oil mist exposure limits. **Respiratory Protection**

Use in a well-ventilated area. See Engineering Controls. Ventilation

Use chemical-resistant protective gloves. Protective Gloves

Eve Protection Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur.

Wash skin thoroughly after contact, before breaks and meals and at the end of the work period. Product is readily removed from Personal Hygiene

skin by waterless hand cleaners followed by washing thoroughly with soap and water.

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective

occupational exposure limits.

5 mg/m³ (oil mist) OSHA, for total product; see Section II for component exposure limit(s). **Exposure Limit**

Section IX. Physical and Chemical Properties

Straw-colored oil with little or no odor Not available Appearance/Odor **Vapor Pressure**

> Not available **Vapor Density**

> > Liquid

Percent Volatile Not available **Odor Threshold** Not available **Evaporation Rate** Not available **Specific Gravity** 0.88 (typical)

7.34 lbs/US gallon (typical) Solubility in Water Density

Not available Coefficient of Water/Oil Not available pН

Distribution **Boiling Point** Not available

Physical State Freezing/Melting Point Not available

Section X. Stability and Reactivity Data

Stable under normal temperatures and pressures. Stability

Conditions of Reactivity Not available

Conditions and Materials Avoid contact with heat, sparks, open flames, and oxidizing agents.

to Avoid

Hazardous Polymerization Hazardous polymerization will not occur.

Products

Hazardous Decomposition Carbon monoxide, carbon dioxide, smoke and irritating vapors as products of incomplete combustion.

Products

Section XI. Toxicological Information

Dermal contact, eye contact, inhalation, ingestion. **Routes of Entry** Not available Ingestion **Toxicity to Animals** Not available Inhalation Not available Effects of Acute Exposure Not available **Toxically Synergistic** Not available

Acute Effects of

Sensitization

Not available

Chronic Effects on Humans:

Carcinogenic Effects This product does not contain a carcinogen or potential carcinogen as listed by NTP or IARC.

Mutagenic Effects No data available to indicate any components present at greater than 0.1% may present a mutagenic hazard.

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Section XI. Toxicological Information (cont'd)

Teratogenic Effects No data available to indicate any components present at greater than 0.1% may present a teratogenic hazard.

Reproductive Effects No data available to indicate any components present at greater than 0.1% may present a reproductive hazard.

Section XII. Ecological Information

There is no data available on the adverse effects of this material on the environment. **Ecotoxicity**

Section XIII. Disposal Considerations

Waste Disposal Consult federal, state or local authorities for proper disposal and reporting procedures. All disposals must comply wtih federal,

state and local regulations.

Section XIV. Transportation Information

I.A.T.A. Air Transportation:

Shipping Name Not regulated

Hazard Class None **UN Number** None **Packing Group** None I.A.T.A. Remarks

U.S. D.O.T. Ground Transportation:

Shipping Name Not regulated

U.S. D.O.T. Remarks None

Section XV. Regulatory Information

U.S. Federal Regulations:

Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is regulated by **CERCLA**

40 CFR 302.4:

None

None

SARA (Section 313) This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations:

None

SARA Extremely

Hazardous List

This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List:

TSCA Inventory

All components of this material are on the U.S. TSCA Inventory.

California Prop. 65

This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive

harm:

None

International Regulations:

Canada

All components are in compliance with the Canadian Environmental Protection Act. This product has been classified in

accordance with the hazard criteria of the CPR and this MSDS contains all the information required by CPR.

Japan MITI Not available Australia Not available **Switzerland** Not available

Section XVI. Other Information

Approval Date

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Sections Revised Since Last Version None

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