

Material Safety Data Sheet Approval Date 10/9/2008

 Approval Date
 10/9/2008

 Supersedes Date
 7/1/2008

 Review/Print Date
 3/28/2013

Section I. Chemical Product and Company Identification				
Product Name/ Trade Name	FORMULA 546; FORMULA 546 XLT	Product 356026A; 356026B; 356026C; ID No. 356229A; 356229C		
Supplier	JBT FOODTECH 1622 FIRST STREET SANDUSKY, OHIO 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	Hydrocarbon	JBT PHONE: 800-433-6320 JBT FAX: 507-645-9664		
Chemical Formula	Mixture			
Material Uses	Lubricant			

Name	PEL/TLV, Source	CAS#	% by Weigh
ROPRIETARY FORMULA.			
lethacrylate copolymer	None established	Proprietary	5-15

LC ₅₀ , LD ₅₀ 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	May cause slight irritation.			
Ingestion	Ingestion may cause irritation of the digestive tract. Aspiration into lungs can cause pneumonitis, which can be fatal.			
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Inhalation	Not expected to present an inhelation expecure risk at ambient temperatures. If vapore or mists are created upon heating or by			
innaiation	Not expected to present an inhalation exposure risk at ambient temperatures. If vapors or mists are created upon heating or by mechanical means, those vapors or mists may cause irritation of the breathing passages.			

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Section III. Hazards Identification (cont'd)

HAZARD RATINGS 0 **HMIS Code** Health: Fire: Physical Hazard: 0 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, and flush eyes with water. If irritation persists, consult 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.

If swallowed, DO NOT induce vomiting. As a precaution, give the person a glass of water to drink. Never give anything by mouth Ingestion

to an unconscious person. Consult a physician.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention

immediately.

Section V. Fire and Explosion Data

Not available **Autoignition Temperature** Flash Point 442°F (228°C) min.

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

See Lower and Upper Flammable Limits **Explosion Hazards**

Products of Combustion Carbon monoxide, carbon dioxide, oxides of nitrogen, oxides of sulfur, oxides of phosphorus, aldehydes, hydrogen sulfide, alkyl

mercaptans, sulfides, diphenylamine, alkenes, smoke and irritating vapors as products of incomplete combustion.

Fire Fighting Media and Instructions

Dry chemical, alcohol foam, and carbon dioxide type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on the size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists. The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's Fire Protection Guide on Hazardous Materials. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for men attempting to stop a leak. Water spray may be used to flush spills away from explosives. Firefighters should wear full protective gear, including helmet. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

Special Remarks -Fire and Explosion

when in the vicinity of ignition sources (open flame, pilot lights, sparks or electric arcs).

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Leaks/ruptures in high-pressure systems using materials of this type can create a fire hazard Hazards

Section VI. Accidental Release Measures

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

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

Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Handling

"Empty" containers retain product residue 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 as they may explode and can cause

injury or death. Empty container should be promptly returned to a drum reconditioner.

Do not use in high-pressure systems in the vicinity of flames, sparks and hot surfaces. Keep container closed. Do not store near Storage

heat, sparks, open flame, pilot lights, static electricty, or where temperature may exceed 120°F (49°C).

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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

Any lined non-permeable rubber 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 work period. Product is readily removed from skin Personal Hygiene

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

If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control **Engineering Controls**

airborne levels below the recommended mineral oil mist exposure limits.

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

Section IX. Physical and Chemical Properties

Red-colored lube oil with slight sulfur odor Nil Appearance/Odor **Vapor Pressure**

> Vapor Density Not available

Percent Volatile Nil **Odor Threshold** Not available **Evaporation Rate Specific Gravity** 0.8353 - 0.8633 Nil

Not available Solubility in Water Density Coefficient of Water/Oil Not available Not available

Distribution **Boiling Point** Not available

Liquid

Physical State Freezing/Melting Point Not available

Section X. Stability and Reactivity Data

Stability Stable under normal temperatures and pressures.

Conditions of Reactivity Not available

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to Avoid

Conditions and Materials Avoid heat, sparks, open flames, oxidizing materials, acids and strong reducing agents.

Hazardous Polymerization Hazardous polymerization will not occur.

Hazardous Decomposition Carbon monoxide, carbon dioxide, oxides of nitrogen, oxides of sulfur, oxides of phosphorus, aldehydes, hydrogen sulfide, alkyl **Products**

mercaptans, sulfides, diphenylamine, alkenes, smoke and irritating vapors as products of incomplete combustion.

Section XI. Toxicological Information

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

Products

Acute Effects of Not available Sensitization

Chronic Effects on Humans:

Carcinogenic Effects This product does not contain a carcinogen or potential carcinogen as listed by NTP, IARC, or OSHA [29 CFR 1910.1200(D)#4].

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

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FORMULA 546; FORMULA 546 XLT

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

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

state and local regulations.

Section XIV. Transportation Information

U.S. D.O.T.

Shipping Name: Not regulated

UN Number: None **Hazard Class:** None **Packing Group:** None None Remarks

Section XV. Regulatory Information

U.S. Federal Regulations:

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

40 CFR 302.4:

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:

None

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

WARNING: This product contains the following chemical(s) known to the State of California to cause birth defects or other California Prop. 65

reproductive harm:

< 0.002% cadmium; < 0.002% lead; < 0.003% arsenic

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

10/9/2008 **Approval Date**

7/1/2008 **Supersedes Date**

Section I **Sections Revised** Since Last Version

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