



## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

**D-A Lubricant**

1340 W. 29th St.  
Indianapolis, IN 46208  
317/923-5321

CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME: **BLUE FLAME ZS - BULK GALLONS**

PRODUCT DESCRIPTION: BLUE FLAME ZS, ALL GRADES

CHEMICAL FAMILY: PETROLEUM OIL, MOTOR OIL

EFFECTIVE DATE: 03/03/08

SUPERCEDES DATE: 02/19/08

Dear Customer:

In compliance with the Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard Communications Regulations (WHMIS and OSHA 29 CFR 1910.1200) and in the interest of informed use of our product, we are providing you with this Material Safety Data Sheet (MSDS).

This MSDS will be updated regularly to reflect the most recent information in our possession. Please ensure that obsolete MSDS sheets in your files for this part number are discarded.

We THANK YOU for your continued patronage and look forward to providing you with additional quality products and services.

## SECTION 2 - HAZARDOUS INGREDIENTS

COMPONENT	CAS #	% WT	PEL	TLV	STEL	UNITS	LC50,PPM	LD50, MG/KG	
PETROLEUM OILS									
	64742-65-0	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000
	64741-88-4	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000
	64742-01-4	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000
ZINC DIORGANO-DITHIOPHOSPHATE									
	68649-42-3	.1-1						RATI >2000	RABA >2000 SARA Rep.

## SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260	Specific Gravity: 0.86 to 0.90
Vapor Pressure (MM HG): NIL	% Volatile Volume: NIL
Vapor Density (Air=1): N/A	Evaporation Rate: <0.1
Solubility in Water: NEGLIGIBLE	Water/Oil Dist Coeff: 0
Appearance and Odor: Light brown fluid with Mild Petroleum Odor	
Physical State: LIQUID	PH: N/A
Freeze Pt Deg F/C: N/A	Threshold Odor, PPM: N/A
Other: N/A	VOC: Lbs/Gal = N/A
Grams/Liter = N/A	Grams VOC/Grams Solid = N/A
% VOC: N/A	

## SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp NFPA Rating: 1.1.0  
 Combustion products: CO, CO<sub>2</sub>, Smoke, Sulfur, Nitrogen, Phosphorous, Sodium, Calcium and Zinc Compounds.  
 Flash Point Deg F/C: >370/>188 LEL %: N/A % UEL %: N/A %  
 Extinguishing Media: Water Fog, Foam, Dry Chemical, CO<sub>2</sub>, Sand, or Earth.  
 UN/NA/PIN#: N/A

## Special Fire Fighting Procedures

Firefighters should wear self-contained breathing equipment. Treat as a Class B fire. Use water to cool threatened containers.

Auto Ign. Temp Deg F/C: >500/>260

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Unusual fire and explosion hazards: N/A

Explosion Power: N/A

Impact Sensitive: No

Burning Rate: Low

Static Sensitive: No

### SECTION 5 - HEALTH HAZARD DATA

Product guide: TLV see Section 2 STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness and/or sensitization.

Any suspected carcinogen = or > 0.1%?: NO

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### Emergency and First Aid Procedures

Eye: Immediately flush with water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately; show MSDS or Label; DO NOT induce vomiting.

Wash soiled clothing before wearing again.

### SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents

Hazardous Decomposition Products: YES, combustion products, see Section 4

Hazardous Polymerization: NO

Conditions to Avoid: N/A

### SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO #304, Cercla: NO #313: YES

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with inert material and transfer to a sealed approved container for disposal. Any spill of this material that can enter navigable waters must be reported immediately to the National Response Center (800-424-8802)

Report Quantity, Lb: N/A

Kg: N/A

TPQ, Lb: N/A

Regulations: SARA, TSCA

Other: N/A

Hazard Waste: NO

NO.:

Disposal Method: In accordance with Federal, State, and Local Regulations.

\*\*\* SARA Waste Characteristic: N/A

\*\*\* EPA Hazardous Waste Number: N/A

### SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant Eye Protection: Safety Glasses/Goggles

Other Protective Equipment:

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate, wear approved respiratory equipment.

Estimated LD50, Mg/Kg: YES Dermal, Rabbit 2000, Oral Rat 13000

Estimated LC50, PPM: NO

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Sensitization: NO

Irritant: NO

Synergistic Agents: NO

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### SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. In case of accident or illness, consult a physician immediately; show label and/or MSDS.

Keep out of reach of children.

Always read and follow directions on product label.

Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources; they may explode and cause injury or death.

The information and recommendations provided herein are believed to be accurate as of the date hereof. However, such information and recommendations are provided without warranty of any kind and D-A Lubricant disclaims any and all liability or legal responsibility for use or reliance upon same.

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