

Date Prepared: February 1, 2017

1. Product and Company Identification

Jet-Lube LLC / Deacon
Bldg. #1, West Point Drive
Washington, PA 15301 USA
Phone (724) 225-8008

24 Hour Emergency Response Contact:
CHEMTREC (USA and CANADA)
Phone: 800-424-9300 or 703-527-3887

Product Name: Deacon Dry-Pak 20
Product Type: Lead Shot
Product Description: Lead spheres
General Use : Sealant Additive

2. Hazards Identification

GHS Classification : Carcinogenicity, 1A
Acute Toxicity, 3
Aquatic Chronic , 1
STOT RE2
REPR, 1A

GHS Label Elements :
Signal Word : Warning

**Hazard Statements:**

H302 Harmful if swallowed
H315 / 320 Causes Skin and Eye Irritation
H332 Harmful if inhaled
H350 May cause cancer
H335 May cause respiratory irritation
H371 May cause damage to organs through inhalation and ingestion. (see section 11)
H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements :

P261 Avoid breathing dust
P262 Do not get in eyes, on skin, or on clothing
P285 In case of inadequate ventilation wear respiratory protection
P281 Use personal protective equipment as required
P301/P310 If Swallowed: Immediately call a Poison Center or Physician
P333/P313 If skin irritation or rash develops: Get medical attention.
P302/P352 If on skin: Wash with plenty of soap and water
P305/P351/P338 If in eyes : Rinse cautiously with water for several minutes.
Remove contact lenses if easy to do. Continue Rinsing.
P337/P313 If eye irritation persists: Get medical attention
P342/P311 If experiencing respiratory symptoms : Get medical attention.
P233 Keep container tightly closed
P501 Dispose of observing all Federal, State and Local regulations.

NOTE : Exposure to this product as lead shot presents few hazards in itself, however, normal handling or processing of this material may result in exposure to product compounds and/or decomposition products, which may present a potential health hazard.

3. Composition / Information on Ingredients

Ingredients	CAS No.	% by weight
Lead	7439-92-1	90.0 – 98.9
Antimony	7440-36-0	1.0 - 8.0
Arsenic	7440-38-2	0.1 – 2.0

4. First Aid Measures

Ingestion:	DO NOT INGEST. Give Water. Induce vomiting only in a conscious non-convulsing individual: obtain immediate medical attention.
Inhalation:	Remove to fresh air. If symptoms persist, seek medical attention. If breathing has stopped, initiate artificial respiration.
Skin Contact:	Wash with soap and water, consult physician if rash develops.
Eye Contact:	Flush with water 15 minutes. If symptoms persist, seek medical attention.

5. Fire Fighting Measures**Recommended Extinguishing Agent:**

No specific agents recommended

Special Fire Fighting Procedures:

Wear NIOSH/MSHA Approved SCBA and Full Protective Equipment

Hazardous Products Formed by Fire**or Thermal Decomposition:**

At temperatures above the melting point metal oxide fumes may be evolved. Under reducing conditions, such as any strong acid or base plus an active metal, or in the presence of nascent hydrogen, highly toxic stibine gas and arsine gas may be evolved.

Unusual Fire or Explosion Hazards:

None Known

Compressed Gases: None**Pressure at Room Temperature:** Does not apply**6. Accidental Release Measures****Steps to be taken in cases of spill or leak:**

Minimize Exposure. Wear proper personal protective equipment. Return uncontaminated material to metal container and seal container tightly. Dispose of contaminated material or waste. Clean up using dustless methods. (e.g. HEPA vacuum) Do not use compressed air. Keep out of waterways.

7. Handling and Storage

Storage: Keep container closed in a dry area. Shelf life unlimited. Store away from incompatible materials. (See section 10)

Handling: Avoid contact with skin and eyes. Do not breathe dust. Wear appropriate respirator to avoid breathing any dust. Wear appropriate safety gear as required in work area.

8. Exposure Controls / Personal Protection

Exposure Limits Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Lead	.05mg/m3	.05mg/m3	
Antimony	.5mg/m3	.5mg/m3	
Arsenic	.01mg/m3	.01mg/m3	

Personal Protective Equipment (PPE)

Eyes: Safety Glasses
Full face shield recommended. (If injecting product)

Skin: Chemical resistant gloves

Respiratory Protection: NIOSH approved for organic dust.

Other Protective Clothing or Equipment: Coveralls or other protective clothing. Safety equipment as required in area.

Work / Hygienic Practices: Avoid contact with skin. Wash hands before eating.

Engineering Controls : Ventilation: Local exhaust if poorly ventilated area or in confined spaces.

9. Chemical and Physical Properties

Appearance:	Solid Spheres, Gray Color
Odor:	None
pH:	Not Established
Solubility in Water:	NIL
Specific Gravity:	11.18 (H2O =1)
Evaporation Rate:	Not Applicable
Boiling Point:	Not Applicable
Melting Point:	328 C (lead) 630 C (antimony) 613 C (Arsenic Sublimes without melting)
Vapor Pressure:	Not Applicable
Vapor Density:	Not Established
VOC Content:	None
Flash Point:	None Method: None

Flammable Limits:

LEL: Not Established
UEL: Not Established

10. Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition
Or By-Products:

At temperatures above the melting point metal oxide fumes may be evolved. Under reducing conditions, such as any strong acid or base plus an active metal, or in the presence of nascent hydrogen, highly toxic stibine gas and arsine gas may be evolved.

Incompatibility: Strong oxidizers, hydrogen peroxide, potassium nitrate, or permagenates, halogen gases, halides, halogenates, active metals – sodium, potassium. Powdered lead fused with ammonium nitrate may cause a violent reaction. Strong acids, bases, nascent hydrogen, reducing agents, chlorine, fluorine, and bromine. Never mix molten metal with water – it will explode. Never put product, by-products, dust or product waste into galvanized or aluminum containers.

11. Toxicology Information

Primary Routes of Entry: Inhalation and ingestion.
Signs and Symptoms of Exposure: Muscle weakness, nausea, vomiting, diarrhea, eye and skin irritation.
(See Acute and Chronic Health Hazards this section)

Existing Conditions Aggravated by Exposure: Pre-existing conditions of the lungs, diseases of the blood and blood-forming organs, kidneys, liver, nervous & possibly reproductive systems

Carcinogenicity

NTP: Arsenic, Known Carcinogen
IARC: Arsenic, Group 1, Lead, 2B
OSHA: Arsenic

Toxicity: Contains toxic constituents, lead, antimony and arsenic.

Acute Health Hazards: Overexposure to Lead may lead to central nervous system disorders, characterized by drowsiness, seizures, coma & death. It should be recognized that exposures of this magnitude in an industrial environment are very unlikely. Acute exposure to Antimony may cause upper respiratory tract irritation and systemic antimony poisoning with symptoms including abdominal cramps, nausea, dizziness dry throat and various nervous complaints, such as sleeplessness irritability and muscular pains. Repeated skin contact with Antimony may result in dermatitis and eye contact may cause severe eye irritation. Acute overexposure to Arsenic may cause severe irritation of the lungs and upper respiratory tract with symptoms including a perforated nasal septum and central nervous system disorders characterized by seizures, coma and death. Repeated skin contact with Arsenic may cause skin irritation, dermatitis or contact dermatitis. And eye contact may cause severe eye irritation

Chronic Health Hazards: Overexposure to Lead can result in systemic Lead poisoning with symptoms of metallic taste, anemia, insomnia, weakness, constipation, abdominal pain, gastrointestinal disorders, joint and muscle pains, and muscular weakness, and may cause damage to the blood-forming, nervous, kidney & reproductive systems. Damage may include reduced fertility in both men and women, damage to the fetus of exposed pregnant women, anemia, muscular weakness & kidney dysfunction. Chronic overexposure to Antimony can lead to liver and kidney damage and central nervous system disorders. Antimony can cause eye and skin irritation, and dermatitis. Chronic overexposure to Arsenic can result in systemic arsenic poisoning with symptoms of weight loss, nausea, vomiting, diarrhea, weakness, loss of appetite and skin lesions and can cause damage to the liver, kidney and nervous systems. Exposure to Arsenic may also present a skin, respiratory tract, lymphocytic system and liver cancer risk, and can cause eye and skin irritation and dermatitis.

12. Ecological Information

Aquatic Chronic Effects, keep out of waterways.

13. Disposal Considerations

Recommended Methods of Disposal:
RCRA 40 CFR 261 Classification : This product as purchased does not fall under current US EPA RCRA definitions of Hazardous Waste.
Certain state regulations could affect whether a material is considered a hazardous waste upon disposal. It must also be noted that a material can become a hazardous waste if it is mixed with or comes in contact with a hazardous substance during use. Under RCRA it is the responsibility of user of a product to determine at the time of disposal, whether a material should be classified as a hazardous waste.

14. Transport Information

DOT (49 CFR 172): Not Regulated

IATA : Not Regulated

Liquid / Solid (per ASTM D 4359-90) : Material is a solid

15. REGULATORY INFORMATION

CERCLA HAZARDOUS SUBSTANCES (40 CFR Part 302.4): RQ is 10 lb., Arsenic RQ is 1 lb., Antimony RQ is 5000 lb.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR Part 355): This product does not contain any SARA 302 Extremely Hazardous Substances.

SARA TITLE III SECTION 311/312 HAZARDOUS CATEGORIZATION (40 CFR Part 370): Certain ingredients of this product are regulated under Sara Title III Section 311/312, see section 3 of this MSDS.

SARA TITLE III SECTION 313 (40 CFR Part 372): Lead, Arsenic, Antimony

U.S. INVENTORY (TSCA): Any chemical substances (as defined in 40 CFR Part 710.2), that are contained in, or used in the manufacture of this product, are reported in the EPA TSCA Inventory. (As required per 40 CFR 710.3)

CALIFORNIA PROPOSITION 65: Arsenic, Lead

CANADA WHMIS: Ingredient Disclosure List: Lead, Antimony and Arsenic appear on the Canadian HPA WHMIS Chemical List.

WHMIS Classification : Lead D2A

EUROPEAN UNION :
 Lead : CLP Acute Tox 4, Repr 1A, STOT RE2, Aquatic acute 1, Aquatic Chronic 1
 Antimony: CLP Acute Tox 4, Aquatic Chronic 2
 Arsenic: CLP Acute Tox 3, Aquatic Acute 1, Aquatic Chronic 1

OZONE DEPLETERS: * This product is not manufactured with or contains any Class I or Class II Ozone Depleting Chemicals. (ODC's)

16. OTHER INFORMATION

The information contained in this MSDS sheet is based upon data supplied by our suppliers and data determined by us in our facilities at the time these products were formulated. We have reviewed any information that we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety data in this sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. If after reviewing this MSDS you have determined that this product poses unusual risks to you, your plant, or your plant personnel, or if you cannot comply fully with all safety recommendations, do not use this product. This product is intended for a temporary repair. The responsibility for whether or not the product is suitable for use rest solely with the purchaser. We recommend that the product be tested prior to use. Your use of this information is beyond our control, therefore, the information is provided without warranty expressed or implied. We accept no liability beyond the purchase price of the material.

Estimated HMIS® Code:

Health Hazard:	*1	* See section 11 for chronic effects.
Flammability Hazard:	0	
Physical Hazard:	0	
Personal Protection:	NPCA recommends that PPE codes be determined by the employer, who is familiar with the actual conditions under which chemicals in the facility are used.	

Procedural Warning:

Attn: Technician

(For industrial use by professionally trained personnel only) When the compound is curing, vapors and gasses are given off and should be vented. Steps should be taken to insure that the injection pressure in conjunction with pressure that may occur from gassing off does not exceed the pressure limitations of the piping system. Also, be aware it is quite common that the application temperature will exceed the compound flash point. Be aware of the possibility of a flash and take necessary precautions. Avoid contact with skin and eyes. See section 8 of SDS for personal protective equipment. Ventilation may be needed during heating/curing stage to exhaust organic vapors resulting from vaporization of certain organic agents. Always avoid direct contact with smoke and vapors being emitted from the compound during the heating/curing process. These vapors may be irritating to the skin, eyes and respiratory system. Read product technical data and safety information before use. Note : This product contains lead, antimony and arsenic.

PREPARATION INFORMATION

Prepared By:	Safety Department
Company:	Jet-Lube LLC / Deacon
Revision Date:	05-01-15 Revision: A