



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Product name** V209405  
**MSDS name** BEARING LUBRICANT AERO 5.5 OZ  
**CAS number** Mixture  
**Generic description** Aerosol Spray Flammable  
**Manufacturer** Bostik, Inc.  
211 Boston Street  
Middleton, MA 01949 USA  
**24 hour emergency assistance** Telephone: 1-800-227-0332  
**General assistance** Telephone: 1-978-777-0100  
**MSDS assistance** Telephone: 1-414-607-1347

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS #	Percent
Isooctane	540-84-1	7 - 13
Heptane	142-82-5	5 - 10
Acetone	67-64-1	30 - 60
Butane	106-97-8	3 - 7
Hexane	110-54-3	3 - 7
Propane	74-98-6	1 - 5
Ethyl benzene	100-41-4	0.1 - 1

### 3. HAZARDS IDENTIFICATION

**Emergency overview** Product is a flammable aerosol. Pressurized container may explode when exposed to heat or flame. Contact may cause skin and eye irritation. Mist may cause nose and throat irritation. Ingestion will cause nausea, vomiting, pain, upset stomach, and diarrhea.

**Potential health effects**

**Skin** This product may cause irritation to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. This product may be harmful if it is absorbed through the skin. Contact with liquefied gas may cause frostbite.

**Eyes** Liquid or vapors may irritate the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Eye contact may lead to permanent damage if not treated promptly.

**Inhalation** This product may cause irritation to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. Possibly unconsciousness and asphyxiation.

**Ingestion** This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Target organs** Central Nervous System. Lungs. Skin. Eyes.

**Signs and symptoms of overexposure** Signs and symptoms of overexposure to this product include headache, irritation of upper respiratory tract, asthmatic symptoms, chest tightness, breathing difficulty, coughing, eye irritation, skin irritation, diarrhea.

### 4. FIRST AID MEASURES

**First aid**

**Skin** For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

**Eye** Immediately flush with plenty of water for at least 15 minutes, holding eyelids open at all times. Get medical attention immediately.

<b>Inhalation</b>	Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration. Call a physician if symptoms develop or persist.
<b>Ingestion</b>	If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
<b>Notes to physician</b>	This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately. If overexposure to the solvents in this product is suspected, testing should include nervous system and brain effects including recent memory, mood, concentration, headaches and altered sleep patterns. Liver and kidney function should be evaluated.

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Use dry chemical, carbon dioxide, or foam. Use water to cool fire-exposed containers and to protect personnel. Do not direct a solid stream of water or foam into hot, burning pools; this may result in frothing and increase fire intensity.
<b>Basic fire fighting procedures</b>	DANGEROUS when exposed to heat or flame. This material can be ignited by flame or spark under all normal atmospheric conditions. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Pressurized Container: May explode when exposed to heat or flame. Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.
<b>Dust explosion hazard</b>	None Known
<b>Sensitivity to mechanical impact</b>	Container could potentially burst or be punctured upon mechanical impact, releasing flammable vapors.
<b>Sensitivity to static discharge</b>	Sparks generated by static discharge may ignite this product or its vapors. All containers and equipment must be bonded or grounded to minimize risk.
<b>Unusual fire &amp; explosion hazards</b>	During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a buildup of internal pressures. Cool with water.
<b>Fire fighting equipment/instructions</b>	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
<b>Flash point</b>	-104 °F (-75.6 °C)

Substance Name	% LEL	% UEL	Vapor Pressure (mmHG)
Heptane			53 hPa at 22.3 °C
Butane			2200 hPa at 20 °C
Propane			600-39000 hPa at 20 °C
Acetone			233 hPa at 20 °C

## 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency action</b>	Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. Wear appropriate protective equipment and clothing during clean-up.
<b>Containment</b>	Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Cover spills with non-flammable absorbent and place in closed chemical waste containers.
<b>Reporting</b>	See Federal reporting requirements listed in Section 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

## 7. HANDLING & STORAGE

<b>Handling</b>	Keep this product from heat, sparks, or open flame. Avoid getting this material into contact with your skin and eyes. Avoid breathing mists or aerosols of this product. Use this product with adequate ventilation. Do not reuse the empty container.
<b>Storage</b>	Store in a cool, dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition. Keep out of direct sunlight. Do not store above 120 F (49 C).
<b>Empty container precaution</b>	Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls</b>	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product. Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits. Explosion proof exhaust ventilation should be used.
<b>Eye protection</b>	Wear goggles or safety glasses with side shields.
<b>Skin and body protection</b>	Impervious gloves should be used at all times when handling this product. Recommended gloves include rubber, neoprene, nitrile or viton. Use of protective coveralls and long sleeves is recommended.
<b>General</b>	Eyewash fountains and emergency showers should be readily available.

### Exposure limits

#### ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Acetone	67-64-1	<u>500 ppm TWA</u>
Butane	106-97-8	<u>1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)</u>
Ethyl benzene	100-41-4	<u>100 ppm TWA</u>
Heptane	142-82-5	<u>400 ppm TWA</u>
Hexane	110-54-3	<u>50 ppm TWA</u>
Propane	74-98-6	<u>1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)</u>

#### NIOSH - Pocket Guide - TWAs

Acetone	67-64-1	<u>250 ppm TWA; 590 mg/m3 TWA</u>
Butane	106-97-8	<u>800 ppm TWA; 1900 mg/m3 TWA</u>
Ethyl benzene	100-41-4	<u>100 ppm TWA; 435 mg/m3 TWA</u>
Heptane	142-82-5	<u>85 ppm TWA; 350 mg/m3 TWA</u>
Hexane	110-54-3	<u>50 ppm TWA; 180 mg/m3 TWA</u>
Propane	74-98-6	<u>1000 ppm TWA; 1800 mg/m3 TWA</u>

#### OSHA - Final PELs - Time Weighted Averages (TWAs)

Acetone	67-64-1	<u>1000 ppm TWA; 2400 mg/m3 TWA</u>
Ethyl benzene	100-41-4	<u>100 ppm TWA; 435 mg/m3 TWA</u>
Heptane	142-82-5	<u>500 ppm TWA; 2000 mg/m3 TWA</u>
Hexane	110-54-3	<u>500 ppm TWA; 1800 mg/m3 TWA</u>
Propane	74-98-6	<u>1000 ppm TWA; 1800 mg/m3 TWA</u>

#### OSHA - Vacated PELs - TWAs

Acetone	67-64-1	<u>750 ppm TWA; 1800 mg/m3 TWA</u>
Butane	106-97-8	<u>800 ppm TWA; 1900 mg/m3 TWA</u>
Ethyl benzene	100-41-4	<u>100 ppm TWA; 435 mg/m3 TWA</u>
Heptane	142-82-5	<u>400 ppm TWA; 1600 mg/m3 TWA</u>
Hexane	110-54-3	<u>50 ppm TWA; 180 mg/m3 TWA</u>
Propane	74-98-6	<u>1000 ppm TWA; 1800 mg/m3 TWA</u>

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Target solids</b>	6.94 %
<b>pH</b>	N/A
<b>Density</b>	0.75 g/cc
<b>Odor</b>	Solvent
<b>Color</b>	White
<b>Physical state</b>	Aerosol
<b>Freeze protect</b>	No
<b>VOC (Volatile Organic Compounds)</b>	320.9 g/l

## 10. STABILITY & REACTIVITY

<b>Hazardous reactions/decomposition products</b>	Upon decomposition of this product, the following oxides will be produced: Carbon dioxide, carbon monoxide, oxides of sulfur and nitrogen.
<b>Hazardous polymerization</b>	Will not occur.
<b>Conditions to avoid</b>	Keep away from sources of ignition. Avoid contact with Strong Oxidizers, Reducers, Acids and Alkalis.
<b>Stability</b>	Stable under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

**Toxicological data** If any toxicological data is available, it will be listed below:

### LD50

#### Toxicology Data - Selected LD50s and LC50s

Acetone	67-64-1	<u>Inhalation LC50 Rat: 76 mg/L/4H; Oral LD50 Rat: 1800 mg/kg; Dermal LD50 Rabbit: 20000 mg/kg</u>
Butane	106-97-8	<u>Inhalation LC50 Rat: 658 g/m3/4H</u>
Ethyl benzene	100-41-4	<u>Inhalation LC50 Rat: 17.2 mg/L/4H; Oral LD50 Rat: 3500 mg/kg; Dermal LD50 Rabbit: 15354 mg/kg</u>
Heptane	142-82-5	<u>Inhalation LC50 Rat: 103 g/m3/4H</u>
Hexane	110-54-3	<u>Inhalation LC50 Rat: 48000 ppm/4H; Oral LD50 Rat: 28710 mg/kg; Dermal LD50 Rabbit: 3000 mg/kg</u>
Isooctane	540-84-1	<u>Inhalation LC50 Rat: 37.2 mg/L/4H; Inhalation LC50 Rat: 47.4 mg/L/1H; Oral LD50 Rat: &gt;2500 mg/kg</u>
Propane	74-98-6	<u>Dermal LD50 Rat: 658 mg/kg</u>

**Chronic effects** Chronic exposure to solvents can cause reproductive problems, reduced fertility, dryness and cracking of skin, headaches, loss of appetite and nausea.

**Carcinogenicity** If this product contains any carcinogens, they will be noted below:

#### IARC - Group 2B (Possibly Carcinogenic to Humans)

Ethyl benzene 100-41-4 Monograph 77 [2000]

#### OSHA - Hazard Communication Carcinogens

Ethyl benzene 100-41-4 Present

## 12. ECOLOGICAL INFORMATION

**VOC (Volatile Organic Compounds)** 320.9 g/l

**Ecotoxicological information** Organic solvents produce slight to moderate toxicity to aquatic life. Insufficient data exists to evaluate the effect on plants, birds or land animals.

## 13. DISPOSAL CONSIDERATIONS

It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable local, state and federal regulations.

**Waste disposal** Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

## 14. TRANSPORT INFORMATION

### DOT

#### Basic shipping requirements:

**Proper shipping name** Consumer Commodity, ORM-D

### IATA

#### Basic shipping requirements:

**Proper shipping name** Aerosols

**Hazard class** 2.1

**UN number** UN1950



**IMDG****Basic shipping requirements:**

**Proper shipping name**                      Aerosols  
**Hazard class**                                      2.1  
**UN number**                                        UN1950

**15. REGULATORY INFORMATION**

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

**Federal regulations**                              All components are on the U.S. EPA TSCA Inventory List.

**CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

Acetone    67-64-1    5000 lb final RQ; 2270 kg final RQ  
Ethyl benzene                                      100-41-4    1000 lb final RQ; 454 kg final RQ  
Hexane    110-54-3    5000 lb final RQ; 2270 kg final RQ  
Isooctane    540-84-1    1000 lb final RQ; 454 kg final RQ

**CERCLA/SARA - Section 313 - Emission Reporting**

Ethyl benzene                                      100-41-4    0.1 % de minimis concentration  
Hexane    110-54-3    1.0 % de minimis concentration

**CWA (Clean Water Act) - Hazardous Substances**

Ethyl benzene                                      100-41-4    Present

**TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification**

Heptane    142-82-5    Section 4  
Xylenes (o-, m-, p- isomers)                1330-20-7    Section 4

**State regulations**                              If this product contains any ingredients listed under California Proposition 65, they will be noted below:

**California - Proposition 65 - Carcinogens List**

Ethyl benzene                                      100-41-4    carcinogen, initial date 6/11/04

**California - Proposition 65 - Developmental Toxicity**

Ethyl Alcohol                                      64-17-5    developmental toxicity, initial date 10/1/87 (when in alcoholic beverages)

**International regulations**                      This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

**HMIS Ratings**                                      Health: 2\*  
    Flammability: 4  
    Physical hazard: 0  
    Personal protection: X

**SARA 311/312 HAZARD CATEGORIES**              Immediate Hazard - Yes  
    Delayed Hazard - Yes  
    Fire Hazard - Yes  
    Pressure Hazard - Yes  
    Reactivity Hazard - No

**WHMIS status**                                      Controlled

**WHMIS labeling**

**WHMIS classification**                              A - Compressed Gas  
    B5 - Flammable/Combustible  
    D2A - Other Toxic Effects-VERY TOXIC  
    D2B - Other Toxic Effects-TOXIC

## 16. OTHER INFORMATION

**Disclaimer**

The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

**Issue date**

01/26/2007

**Prepared by**

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