



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

| | |
|-------------------------------------|--|
| Product name | Top-Cote Aerosol Series |
| MSDS name | Top-Cote Aerosol Product Series |
| Product name(s) covered | See Section 16 for Product Names Covered. |
| CAS # | Mixture |
| Product use | Lubricants |
| Generic description | Aerosol Spray Flammable |
| Manufacturer | Bostik, Inc. 211 Boston Street Middleton, MA 01949 USA |
| 24 hour emergency assistance | Telephone: 1-800-227-0332 (Outside U.S.) 1-703-527-3887 |
| General assistance | Telephone: 1-978-777-0100 |
| MSDS assistance | Telephone: 1-414-607-1347 |

2. Hazards Identification

| | |
|---------------------------------|--|
| Emergency overview | Contact with this material can cause irritation to the skin, eyes and mucous membranes. Product is a flammable aerosol. Pressurized container may explode when exposed to heat or flame. May be harmful by inhalation, ingestion, skin adsorption. |
| Potential health effects | |
| Eyes | Liquid or vapors may irritate the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause irreversible eye damage. |
| 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. Rapid evaporation of the liquid may cause frostbite. |
| Inhalation | This product may cause irritation to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. High concentration of vapours may induce unconsciousness. |
| Ingestion | This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| Target organs | Respiratory system. Eyes. Skin. Central nervous system. |
| Signs and symptoms | 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. |

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|-------------------------------------|--------------|----------------|
| Acetone | 67-64-1 | 30 - 60 |
| Naphtha (petroleum), light alkylate | 64741-66-8 | 10 - 30 |
| Heptane | 142-82-5 | 5 - 10 |
| Isooctane | 540-84-1 | 3 - 7 |
| Butane | 106-97-8 | 3 - 7 |
| Hexane | 110-54-3 | 3 - 7 |
| Propane | 74-98-6 | 1 - 5 |

4. First Aid Measures

| | |
|-----------------------------|---|
| First aid procedures | |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice. |

| | |
|---------------------------|---|
| Skin contact | For skin contact, wash immediately with soap and water. If irritation persists, get medical attention. |
| Inhalation | Move person to non-contaminated air. Call a physician if symptoms develop or persist. |
| Ingestion | If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. |
| Notes to physician | 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

Extinguishing media

Suitable extinguishing media

Dry chemical, foam, carbon dioxide. 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.

Basic fire fighting procedures

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.

Fire fighting equipment/instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Sensitivity to static discharge

Sparks generated by static discharge may ignite this product or its vapors. All containers and equipment must be bonded or grounded to minimize risk.

Unusual fire & explosion hazards

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.

Flash point

-134 °F (-92.2 °C)

6. Accidental Release Measures

Emergency action

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.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Containment procedures

Eliminate sources of ignition. Stop the flow of material, if this is without risk. 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.

Reporting

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 and Storage

Handling

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.

Storage

Store in a cool, dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition. Keep away from direct sunlight. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

Empty container precaution

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

Engineering controls Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product. Explosion proof exhaust ventilation should be used. Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits.

Personal protective equipment

Eye protection Wear safety glasses with side shields.

Skin and body protection 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.

Respiratory protection Do not inhale aerosol. In case of insufficient ventilation wear suitable respiratory equipment. Special applications may necessitate the use of more stringent respiratory protection equipment.

General Eyewash fountains and emergency showers are required.

Additional exposure data

US ACGIH Threshold Limit Values: Time Weighted Average (TWA): mg/m³ & ppm

| | | |
|---------|----------|-----------------|
| Hexane | 110-54-3 | N-HEXANE 50 PPM |
| Acetone | 67-64-1 | ACETONE 500 PPM |

US NIOSH Pocket Guide to Chemical Hazards: Ceiling Limit Value and Time Period (if specified)

| | | |
|---------|----------|--------------------------------------|
| Heptane | 142-82-5 | N-HEPTANE 1800 MGM3 - 440 PPM 15-min |
|---------|----------|--------------------------------------|

US OSHA Table Z-1-A: Time Weighted Average (TWA): mg/m³ & ppm

| | | |
|---------|----------|---|
| Butane | 106-97-8 | BUTANE 1900 MGM3 - 800 PPM |
| Hexane | 110-54-3 | N-HEXANE 180 MGM3 - 50 PPM |
| Heptane | 142-82-5 | HEPTANE (N-HEPTANE) 1600 MGM3 - 400 PPM |
| Acetone | 67-64-1 | ACETONE 1800 MGM3 - 750 PPM |
| Propane | 74-98-6 | PROPANE 1800 MGM3 - 1000 PPM |

9. Physical & Chemical Properties

| | |
|---|-----------|
| Target solids | 2.3 % |
| pH | N/A |
| Density | 0.74 g/cc |
| Odor | Solvent |
| Color | Clear |
| Physical state | Aerosol |
| Freeze protect | No |
| VOC (Volatile Organic Compounds) | 352.2 g/l |

10. Chemical Stability & Reactivity Information

Hazardous reactions/decomposition products Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

Hazardous polymerization Will not occur.

Conditions to avoid Keep away from sources of ignition. Avoid contact with Strong Oxidizers, Reducers, Acids and Alkalis.

Stability Stable under normal conditions.

11. Toxicological Information

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:

Sensitization to material

US ACGIH Threshold Limit Values: Skin designation

| | | |
|--------|----------|-----------------------------------|
| Hexane | 110-54-3 | Can be absorbed through the skin. |
|--------|----------|-----------------------------------|

12. Ecological Information

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
Hazard class 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

The product(s) covered by this M(SDS) do not include any of the 15 substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by ECHA on October 28, 2008 or the list of 15 substances proposed on August 31, 2009 or the list of 14 substances proposed on January 13, 2010 above a concentration of 0.1% weight by weight (w/w).

Federal regulations All components are on the U.S. EPA TSCA Inventory List.
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance
Hexane 110-54-3 N-HEXANE US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance
US TSCA Section 12(b) Export Notification: Export Notification requirement/De minimis concentration
Heptane 142-82-5 N-HEPTANE

State regulations This product may contain an ingredient(s) known to the State of California to cause cancer, birth defects, and/or other reproductive harm. If any of the ingredients in this product are subject to the Proposition 65 regulations they will be listed as such on the product label.

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

Product name(s) covered V205801 - TOP-COTE AERO 10.75 OZ BP12/CS
V205805 - TOP-COTE AERO 5.5 OZ BULK-PAK

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.

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