

DRI-COTE

MSDS



MATERIAL SAFETY DATA SHEET**1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

Product name V204801
MSDS name DRI-COTE AERO 10.75 OZ BP 12CS
Generic description Aerosol Spray Flammable
Manufacturer Bostik Findley, Inc.
211 Boston Street
Middleton, MA 01949 USA
24 hour emergency assistance Phone: 1-800-227-0332
General assistance Phone: 1-978-777-0100
MSDS assistance Phone: 1-978-777-0100

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS #	Percent
Isooctane	540-84-1	30 - 60
Ethyl Alcohol	64-17-5	3 - 7
Ethyl benzene	100-41-4	3 - 7
Isobutane	75-28-5	3 - 7
Propane	74-98-6	3 - 7
Tricresylphosphate	1330-78-5	1 - 5
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5

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 may cause nausea, vomiting, pain, upset stomach, and diarrhea.

Potential health effects

Skin SKIN CONTACT: 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.

Eyes EYE CONTACT: 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 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 INGESTION: This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

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.

Inhalation Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration. Call a physician if symptoms develop or persist.

Ingestion 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. If person is conscious and can swallow, immediately give two glasses of water, but do not induce vomiting. Material is corrosive. If vomiting occurs, give fluids again. Seek immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

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 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.

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.

Dust explosion hazard None Known

Sensitivity to mechanical impact Container could potentially burst or be punctured upon mechanical impact, releasing flammable vapors.

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.

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

Flash point -156 °F (-104.4 °C)

Substance Name	% LEL	% UEL	Vapor Pressure (mmHG)
60FK204813			41 mmHg
Ethyl Alcohol			57.3 hPa at 20 °C
Isobutane			2100 hPa at 20 °C
Propane			600-39000 hPa at 20 °C
Ethyl benzene			9.5 hPa at 20 °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. Keep upwind of the spilled material and isolate exposure. Wear appropriate protective equipment and clothing during clean-up.

Containment 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.

7. HANDLING & STORAGE

For Commercial Use Only - Not Packaged or Labeled for Home Use!

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 out of direct sunlight. Do not store above 120 F (49 C).

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. Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits. Explosion proof exhaust ventilation should be used.
Eye protection	Wear goggles or 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	Avoid breathing vapor and/or mists. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator.
General	Eyewash fountains and emergency showers should be readily available. Use good industrial hygiene practices in handling this material.

Exposure limits

ACGIH - Occupational Exposure Limits - TWAs

Ethyl Alcohol	64-17-5	1000 ppm TWA
Ethyl benzene	100-41-4	100 ppm TWA
Isobutane	75-28-5	1000 ppm TWA (listed under aliphatic hydrocarbon gases alkane C1-C4)
Propane	74-98-6	1000 ppm TWA (listed under aliphatic hydrocarbon gases alkane C1-C4)
Xylenes (o-, m-, p- isomers)	1330-20-7	100 ppm TWA

OSHA - Vacated PELs - TWAs

Ethyl Alcohol	64-17-5	1000 ppm TWA; 1900 mg/m3 TWA
Ethyl benzene	100-41-4	100 ppm TWA; 435 mg/m3 TWA
Propane	74-98-6	1000 ppm TWA; 1800 mg/m3 TWA
Xylenes (o-, m-, p- isomers)	1330-20-7	100 ppm TWA; 435 mg/m3 TWA

9. PHYSICAL & CHEMICAL PROPERTIES

Target solids	33 %
pH	N/A
Density	0.67 g/cc
Odor threshold	N/A
Octanol/H2O coeff	N/A
Odor	Pungent
Color	White
Physical state	Aerosol
Freeze protect	No
VOC (Volatile Organic Compounds)	566 g/l

10. STABILITY & REACTIVITY

Hazardous reactions/decomposition products	Upon decomposition of this product, the following oxides will be produced: Carbon dioxide, carbon monoxide, oxides of sulfur and nitrogen.
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

LD50

NIOSH - Selected LD50s and LC50s

Ethyl Alcohol	64-17-5	Inhalation LC50 Rat: 20000 mg/kg/10H; Inhalation LC50 Mouse: 39 g/m ³ /4H; Oral LD50 Rat: 7060 mg/kg; Oral LD50 Mouse: 3450 mg/kg
Ethyl benzene	100-41-4	Oral LD50 Rat: 3500 mg/kg; Dermal LD50 Rabbit: 17800 µL/kg
Isobutane	75-28-5	Inhalation LC50 Rat: 57 pph/15M
Xylenes (o-, m-, p- isomers)	1330-20-7	Inhalation LC50 Rat: 5000 mg/kg/4H; Oral LD50 Rat: 4300 mg/kg; Dermal LD50 Rabbit: >1700 mg/kg

Carcinogenicity This product itself is not a listed carcinogen by OSHA, IARC or NTP.

IARC - Group 2B (Possibly Carcinogenic to Humans)

Ethyl benzene 100-41-4 Monograph 77, 2000

OSHA - Possible Select Carcinogens

Ethyl benzene 100-41-4 Present

12. ECOLOGICAL INFORMATION

VOC (Volatile Organic Compounds) 566 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

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

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.

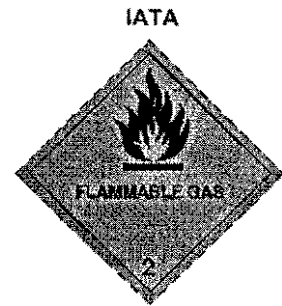
14. TRANSPORT INFORMATION

DOT

Proper shipping name	Consumer Commodity
UN number	ORMD
Special provisions	19, T50
Packaging exceptions	306
Packaging non bulk	304
Packaging bulk	314, 315
Quantity limits passenger	Forbidden
Quantity limits cargo	150 kg
Vessel stowage location	E
Vessel stowage other	40
Severe marine pollutant	Yes
Subsidiary risk	3

IATA

Proper shipping name Propane
Hazard class 2.1
UN number UN1978
Special provisions 19, T50
Packaging exceptions 306
Packaging non bulk 304
Packaging bulk 314, 315
Quantity limits passenger Forbidden
Quantity limits cargo 150 kg
Vessel stowage location E
Vessel stowage other 40
Labels required 2.1
Subsidiary risk 3

**IMDG**

Proper shipping name Propane
Hazard class 2.1
UN number UN1978
Special provisions 19, T50
Packaging exceptions 306
Packaging non bulk 304
Packaging bulk 314, 315
Quantity limits passenger Forbidden
Quantity limits cargo 150 kg
Vessel stowage location E
Vessel stowage other 40
Labels required 2.1
Severe marine pollutant Yes
Subsidiary risk 3

**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

Ethyl benzene	100-41-4	1000 lb final RQ; 454 kg final RQ
Isooctane	540-84-1	1000 lb final RQ; 454 kg final RQ
Xylenes (o-, m-, p- isomers)	1330-20-7	100 lb final RQ; 45.4 kg final RQ

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

California - Proposition 65 - Developmental Toxicity

Ethyl Alcohol	64-17-5	developmental toxicity, initial date 10/1/87 (when in alcoholic beverages)
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International regulations All components are included on the Canadian Domestic Substances List (DSL).

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: 3*
 Flammability: 3
 Physical hazard: 0
 Personal protection: X
 Not Regulated

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES**SARA 311/312 HAZARD CATEGORIES**

Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - Yes
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 313 TOXIC CHEMICALS

Component	CAS Number	Percentage
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5
WHMIS status	Controlled	
WHMIS classification	B2 - Flammable/Combustible D1B - Immediate/Serious-TOXIC 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 Findley, 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	10/27/2004
Prepared by	Michael Simon
Supercedes	12/13/2001
MSDS sections updated	Hazards Identification: Potential Health Effects, Inhalation Toxicological Information: Carcinogenicity Transport Information: Comments Regulatory Information: International Regulations