MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product name	**K325424**
MSDS name	SUPER-TAK Pool Adhesive 12/17 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: 1-414-607-1407

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS #	Percent
Hexane	110-54-3	15 - 40
Acetone	67-64-1	10 - 30
Isobutane	75-28-5	10 - 30
Propane	74-98-6	10 - 30

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 month 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)
Flammability limits in air, upper, % by volume	12.8 %
Flammability limits in air, lower, % by volume	1 %

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

Acetone	67-64-1	500 ppm TWA
Hexane	110-54-3	50 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)

OSHA - Vacated PELs - TWAs

Acetone	67-64-1	750 ppm TWA; 1800 mg/m3 TWA
Hexane	110-54-3	50 ppm TWA; 180 mg/m3 TWA
Propane	74-98-6	1000 ppm TWA; 1800 mg/m3 TWA

9. PHYSICAL & CHEMICAL PROPERTIES

Vapor pressure	2690 mm Hg @ 21 deg C
Vapor density	> 1 Air= 1
Target solids	18 %
pH	N/A
Density	0.69 g/cc
Odor threshold	N/A
Octanol/H2O coeff	N/A
Odor	Mint
Color	Cream
Physical state	Aerosol
Freeze protect	No
VOC (Volatile Organic Compounds)	54.2 %

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

Toxicology Data - Selected LD50s and LC50s

Acetone	67-64-1	Inhalation LC50 Rat: 76 mg/L/4H; Oral LD50 Rat: 1800 mg/kg; Dermal LD50 Rabbit: 20000 mg/kg
Hexane	110-54-3	Inhalation LC50 Rat: 48000 ppm/4H; Oral LD50 Rat: 28710 mg/kg; Dermal LD50 Rabbit: 3000 mg/kg
Isobutane	75-28-5	Inhalation LC50 Rat: 658 mg/L/4H
Propane	74-98-6	Dermal LD50 Rat: 658 mg/kg

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

12. ECOLOGICAL INFORMATION

VOC (Volatile Organic Compounds)	54.2 %
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
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

IATA

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
Subsidiary risk	3

IMDG

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
Hexane	110-54-3	5000 lb final RQ; 2270 kg final RQ

CERCLA/SARA - Section 313 - Emission Reporting

Hexane	110-54-3	1.0 % de minimis concentration

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

California - Proposition 65 - Carcinogens List

Acetaldehyde	75-07-0	carcinogen, initial date 4/1/88 Trace impurity
Benzene	71-43-2	carcinogen, initial date 2/27/87 Trace impurity
Formaldehyde	50-00-0	carcinogen, initial date 1/1/88 (gas) Trace impurity

California - Proposition 65 - Developmental Toxicity

Benzene	71-43-2	developmental toxicity, initial date 12/26/97 Trace impurity

California - Proposition 65 - Reproductive Toxicity - Male

Benzene	71-43-2	male reproductive toxicity, initial date 12/26/97 Trace impurity

International regulations All components of this product are listed either in the Canadian Domestic Substances List (DSL) or the Non-domestic Substance List (NDSL).

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
B2 - Flammable/Combustible
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.

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MSDS sections updated
Hazards Identification: Potential Health Effects, Inhalation
Toxicological Information: Carcinogenicity
Transport Information: Comments
Regulatory Information: International Regulations
Other Information: Disclaimer