



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name	LADH1531AC
MSDS name	ADH 1531AC
CAS #	Mixture
Product use	Adhesive
Generic description	Solvent Based Dispersion
Manufacturer	Bostik, Inc. 11320 Watertown Plank Rd Wauwatosa, WI 53226 USA
24 hour emergency assistance	Telephone: 1-800-227-0332 (Outside U.S.) 1-703-527-3887
General assistance	Telephone: 1-800-843-0844
MSDS assistance	Telephone: 1-800-843-0844

2. Hazards Identification

Emergency overview	Liquid and vapors are flammable. 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	
Eyes	Liquid or vapors may irritate the eyes. Prolonged or repeated contact may worsen irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May lead to permanent damage if not treated promptly.
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.
Inhalation	This product may cause irritation to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.
Ingestion	This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Target organs	Lungs, skin and eyes. Central nervous system. Kidneys.
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	15 - 40
Naphtha, petroleum, solvent-refined light	64741-84-0	15 - 40
Toluene	108-88-3	10 - 30
Hexane	110-54-3	7 - 13
Cyclohexane	110-82-7	1 - 5
Cyclopentane	287-92-3	0.5 - 1.5

4. First Aid Measures

First aid procedures	
Eye contact	In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. Get medical attention or advice.
Skin contact	For skin contact flush with large amounts of water. If irritation persists, repeat flushing and get medical attention. Discard any shoes or clothing items that cannot be decontaminated.
Inhalation	Move person to non-contaminated air. Call a physician if symptoms develop or persist.

Ingestion

If the material is swallowed, get immediate medical attention or advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions.

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**

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

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

Firefighters should wear full protective clothing including self contained breathing apparatus.

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. Vapors may be heavier than air and may travel long distances along the ground before igniting back to vapor source. High temperatures can cause sealed containers to rupture due to a buildup of internal pressures. Cool with water.

Flash point

-22 °F (-30 °C)

6. Accidental Release Measures

Emergency action

WARNING, Flammable. Eliminate all sources of ignition. 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.

Containment procedures

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.

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

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. Wash hands thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, face shields, and gloves. Professionally launder contaminated clothing before re-use. Avoid breathing vapors or mists of this product. Use this product with adequate ventilation. Do not reuse the empty container.

Storage

Keep the container tightly closed and in a cool, well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition. All containers must be bonded or grounded to minimize risk.

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. Do not heat or cut empty container with electric or gas torch.

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; chemical goggles (if splashing is possible). Contact lenses should not be worn.

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

Special applications may necessitate the use of more stringent respiratory protection equipment.

General

Eyewash fountains and emergency showers should be readily available. Use good industrial hygiene practices in handling this material.

Additional exposure data

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

Toluene	108-88-3	TOLUENE 20 PPM
Hexane	110-54-3	N-HEXANE 50 PPM
Cyclohexane	110-82-7	CYCLOHEXANE 100 PPM
Cyclopentane	287-92-3	cyclopentane 600 PPM
Acetone	67-64-1	ACETONE 500 PPM

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

Toluene	108-88-3	TOLUENE 375 MGM3 - 100 PPM
Hexane	110-54-3	N-HEXANE 180 MGM3 - 50 PPM
Cyclohexane	110-82-7	CYCLOHEXANE 1050 MGM3 - 300 PPM
Cyclopentane	287-92-3	cyclopentane 1720 MGM3 - 600 PPM
Acetone	67-64-1	ACETONE 1800 MGM3 - 750 PPM

9. Physical & Chemical Properties

Target solids	16 %
pH	N/A
Density	0.79 g/cc
Odor	Solvent
Color	Brown
Physical state	Liquid
Freeze protect	Yes

10. Chemical Stability & Reactivity Information

Hazardous reactions/decomposition products

If product is burned carbon monoxide, carbon dioxide, acetic acid, vinyl acetate, and other unknown products may be produced. Additionally, depending on conditions, some aliphatic aldehydes and carboxylic acids may be formed.

Hazardous polymerization

Will not occur.

Conditions to avoid

Extremes of temperature and direct sunlight. Keep away from sources of ignition.

Stability

Stable under normal conditions. This product may react with strong acids, bases and oxidizing agents.

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.
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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. Empty containers must be handled with care due to product residue. Do not heat or cut empty container with electric or gas torch.

14. Transport Information

DOT

Basic shipping requirements:

Proper shipping name	Adhesives
Hazard class	3
UN number	UN1133
Packing group	II



DOT NON-BULK

Basic shipping requirements:

Proper shipping name	Adhesives
Hazard class	3
UN number	UN1133
Packing group	II



IATA

Basic shipping requirements:

Proper shipping name	Adhesives
Hazard class	3
UN number	UN1133
Packing group	II



IMDG

Basic shipping requirements:

Proper shipping name	Adhesives
Hazard class	3
UN number	UN1133
Packing group	II



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.

US CWA Section 311 Reporting Quantities of Hazardous Substances: Reportable quantity

Toluene	108-88-3	TOLUENE 1000 LBS
Cyclohexane	110-82-7	CYCLOHEXANE 1000 LBS

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Toluene	108-88-3	TOLUENE 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
Cyclohexane	110-82-7	CYCLOHEXANE US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

State regulations

If this product contains any California Proposition 65 chemicals at reportable levels they will be listed below:

Phenylethane
Formaldehyde (Gas)
Toluene

Restriction of Hazardous Substances (RoHS)

The product(s) covered by this (M)SDS do not contain or are under the prescribed levels of prohibited substances listed under 2011/65/EU Hazardous Substances Restricted or Prohibited in Electrical Equipment, including lead (CAS # 7439-92-1), mercury (CAS # 7439-97-6), cadmium (CAS # 7440-43-9), hexavalent chromium (CAS # 7440-47-3), polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

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.

Substances of Very High Concern (SVHC)

The product(s) covered by this (M)SDS do not include any of the substances above a concentration of 0.1% weight by weight (w/w) in the Candidate List of Substances of Very High Concern (SVHC) for authorization published or proposed by ECHA on the following dates:

- October 28, 2008
- August 31, 2009
- January 13, 2010
- March 8, 2010
- June 18, 2010
- October 14, 2010
- December 15, 2010
- June 20, 2011
- December 19, 2011
- February 17, 2012
- June 18, 2012
- December 19, 2012

HMIS Ratings

Health: 2
Flammability: 3
Physical hazard: 0
Personal protection: X

SARA 311/312 HAZARD CATEGORIES

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
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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03/19/2013

Prepared by

Bostik, Inc. Regulatory Affairs

Supersedes

08/15/2012

This data sheet contains changes from the previous version in section(s):

Regulatory Information: Substances of Very High Concern (SVHC)
Regulatory Information: Restriction of Hazardous Substances (RoHS)