



SAFETY DATA SHEET

LIQUID 1531AC
Revision Number 2

Revision date 06-Aug-2019
Supersedes Date: 25-Feb-2015

1. Identification

1.1. Product Identifier

Product Name LIQUID 1531AC

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use No information available.
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Responsible Party

Bostik Inc.
11320 W. Watertown Plank Road
Wauwatosa, Wisconsin 53226 USA
Phone: +1 (800) 843-0844 (Domestic Toll Free)
Phone: +1 (414) 774-2250 (International)
Fax: +1 (414) 774-8075

E-mail msds@bostik.com

1.4. Emergency telephone number

Telephone: 1-800-227-0332
(Outside U.S.) 1-703-527-3887

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration hazard	Category 1
Flammable liquids	Category 2

2.2. Label Elements

EMERGENCY OVERVIEW

Danger

Hazard statements

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure

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May be fatal if swallowed and enters airways
Highly flammable liquid and vapor



Appearance No information available **Physical State** Liquid

Odor Solvent

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ ventilating/ lighting/ equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
In case of fire: Use CO₂, dry chemical, or foam to extinguish.

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown acute toxicity

41 % of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

No information available.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No.	Weight-%
Acetone	67-64-1	15 - 40
Toluene	108-88-3	7 - 13
Naphtha, petroleum, solvent-refined light	64741-84-0	5 - 10
Hexane	110-54-3	5 - 10
n-Heptane	142-82-5	3 - 7
Cyclohexane	110-82-7	1 - 5
Rosin	8050-09-7	0.1 - 1
4-tert-Butylphenol	98-54-4	0.1 - 1

**The exact percentage (concentration) of composition has been withheld as a trade secret.*

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	If medical advice is needed, have product container or label at hand.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Skin contact	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Inhalation	Remove to fresh air.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Self-protection of the first aider	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

4.4. Reference to Other Sections

Reference to other sections See Section 12: ECOLOGICAL INFORMATION
Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media
Use CO₂, dry chemical, or foam.

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Unsuitable extinguishing media

Use water spray or fog; do not use straight streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Explosion Data

Sensitivity to mechanical impact

None.

Sensitivity to static discharge

May be ignited by friction, heat, sparks or flames.

5.3. Advice for firefighters

Special protective actions for fire-fighters

Move containers from fire area if you can do it without risk.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas.

Other information

Water spray may reduce vapor; but may not prevent ignition in closed spaces.

For emergency responders

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. Environmental precautions

Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

6.3. Methods and material for containment and cleaning up

Methods for containment

Dike far ahead of spill; use dry sand to contain the flow of material. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up

Use clean non-sparking tools to collect absorbed material. Dike far ahead of spill for later disposal.

6.4. Reference to other sections

Reference to other sections

See Section 12: ECOLOGICAL INFORMATION
Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static charges. Use explosion-proof electrical/ ventilating/ lighting/ equipment.

7.2. Conditions for safe storage, including any incompatibilities

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Storage Conditions Keep only in the original container/package in a cool well-ventilated place.

Incompatible materials Strong acids and bases.

7.3. Specific end use(s)

Other information No information available.

7.4. References to Other Sections

Reference to other sections See Section 12: ECOLOGICAL INFORMATION
Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Acetone 67-64-1	STEL: 500 ppm TWA: 250 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³	TWA: 1000 ppm TWA: 2400 mg/m ³	TWA: 500 ppm STEL: 750 ppm
Toluene 108-88-3	TWA: 20 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³	TWA: 200 ppm Ceiling: 300 ppm	TWA: 20 ppm
Hexane 110-54-3	TWA: 50 ppm S*	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m ³	TWA: 500 ppm TWA: 1800 mg/m ³	TWA: 50 ppm
n-Heptane 142-82-5	STEL: 500 ppm TWA: 400 ppm	IDLH: 750 ppm Ceiling: 440 ppm 15 min Ceiling: 1800 mg/m ³ 15 min TWA: 85 ppm TWA: 350 mg/m ³	TWA: 500 ppm TWA: 2000 mg/m ³	TWA: 400 ppm TWA: 1600 mg/m ³ STEL: 500 ppm
Cyclohexane 110-82-7	TWA: 100 ppm	IDLH: 1300 ppm TWA: 300 ppm TWA: 1050 mg/m ³	TWA: 300 ppm TWA: 1050 mg/m ³	TWA: 100 ppm
Rosin 8050-09-7	No data available	TWA: 0.1 mg/m ³ Formaldehyde	-	-

Chemical name	Argentina	Brazil	Chile	Venezuela
Acetone 67-64-1	TWA: 500 ppm STEL: 750 ppm	TWA: 780 ppm TWA: 1870 mg/m ³	TWA: 438 ppm TWA: 1040 mg/m ³	STEL: 750 ppm TWA: 500 ppm
Toluene 108-88-3	TWA: 50 ppm Skin	TWA: 78 ppm TWA: 290 mg/m ³ Skin	TWA: 87 ppm TWA: 328 mg/m ³ Skin	Skin TWA: 20 ppm
Hexane 110-54-3	TWA: 50 ppm Skin	-	TWA: 44 ppm TWA: 154 mg/m ³	TWA: 50 ppm
n-Heptane 142-82-5	TWA: 400 ppm STEL: 500 ppm	-	-	STEL: 500 ppm TWA: 400 ppm
Cyclohexane 110-82-7	TWA: 300 ppm	TWA: 235 ppm TWA: 820 mg/m ³	TWA: 263 ppm TWA: 884 mg/m ³	TWA: 100 ppm
Rosin 8050-09-7	-	-	-	TWA:

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8.2. Exposure controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Personal protective equipment [PPE]

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General hygiene considerations Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Liquid
Color Brown
Odor Solvent
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point / freezing point	No data available	
Boiling point / boiling range	56.1 °C / 132.9 °F	
Flash point	-30 °C / -22 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability or explosive limits	No information available	
Lower flammability or explosive limits	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	No information available	
Solubility in Other Solvents		
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

9.2. Other information

Softening Point No information available
Molecular weight No information available
Solvent content (%) No information available
Solid content (%) 16.0
Density .790 g/cm³
VOC Content (%) No information available

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Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Keep away from heat, sparks and flames.

10.5. Incompatible materials

Strong acids and bases.

10.6. Hazardous decomposition products

Carbon oxides.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Product Information	No data available
Inhalation	No data available.
Eye contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone 67-64-1	= 5800 mg/kg (Rat)	>15800 mg/Kg (rat)	= 79 mg/l(Rat) 4 h
Toluene 108-88-3	= 5580 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	> 20 mg/L (Rat) 4 h
Naphtha, petroleum, solvent-refined light 64741-84-0	> 7000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 73680 ppm (Rat) 4 h
Hexane 110-54-3	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h
n-Heptane 142-82-5	-	= 3000 mg/kg (Rabbit)	= 103 g/m ³ (Rat) 4 h
Cyclohexane 110-82-7	= 12705 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 9500 ppm (Rat) 4 h
Rosin 8050-09-7	>2000 mg/Kg (rat)	> 2500 mg/kg (Rabbit)	= 1.5 mg/L (Rat) 4 h
4-tert-Butylphenol 98-54-4	= 4000 mg/kg (Rat)	LD50 >5000 mg/kg (rabbit) OECD 402	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Symptoms	No information available.
Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Irritation	No information available.
Corrosivity	No information available.
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Reproductive toxicity	Product is or contains a chemical which is a known or suspected reproductive hazard.
Developmental toxicity	No information available.
Teratogenicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	Contains a known or suspected reproductive toxin. Avoid repeated exposure. May cause adverse liver effects.
Target organ effects	liver, Eyes, kidney, blood, Peripheral Nervous System (PNS), Respiratory system, Skin.
Aspiration hazard	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Toluene 108-88-3	-	Group 3	-	-

IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Acetone 67-64-1		LC50 96 h 4.74 - 6.33 mL/L (Oncorhynchus mykiss)	EC50 = 14500 mg/L 15 min	EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static)
Toluene 108-88-3	EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static)	EC50 = 19.7 mg/L 30 min	EC50: =11.5mg/L (48h, Daphnia magna) EC50: 5.46 - 9.83mg/L (48h, Daphnia magna)
Naphtha, petroleum, solvent-refined light 64741-84-0	EC50: =4700mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =4.4mg/L (96h, Oncorhynchus mykiss) LC50: =8.41mg/L (96h, Oncorhynchus mykiss)		EC50: =9.74mg/L (48h, Daphnia magna)
Hexane 110-54-3		LC50: 2.1 - 2.98mg/L (96h, Pimephales promelas)		EC50: >1000mg/L (24h, Daphnia magna)
n-Heptane 142-82-5		LC50: =375.0mg/L (96h, Cichlid fish)		EC50: >10mg/L (24h, Daphnia magna)
Cyclohexane 110-82-7	EC50 72 h > 9.3 mg/L (Pseudokirchneriella subcapitata)	LC50: 23.03 - 42.07mg/L (96h, Pimephales promelas) LC50: 48.87 - 68.76mg/L (96h, Poecilia reticulata) LC50: 3.96 - 5.18mg/L (96h, Pimephales promelas) LC50: 24.99 - 44.69mg/L (96h, Lepomis macrochirus)	EC50 = 85.5 mg/L 5 min EC50 = 93 mg/L 10 min	EC50: >400mg/L (24h, Daphnia magna)
Rosin 8050-09-7	EC50: =400mg/L (72h, Desmodemus subspicatus)	LC50 (96h) >10mg/L Fish (Danio rerio)	EC50 = 31.5 mg/L 30 min	EC50 48 h >100 mg/L (Daphnia magna)

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4-tert-Butylphenol 98-54-4	EC50: =11.2mg/L (72h, Desmodemus subspicatus)	LC50: =6.9mg/L (96h, Cyprinus carpio) LC50: 4.71 - 5.62mg/L (96h, Pimephales promelas)	EC50: 3.4 - 4.5mg/L (48h, Daphnia magna) EC50: =3.9mg/L (48h, Daphnia magna)
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12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of Wastes

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations

Contaminated packaging

Dispose of in accordance with federal, state and local regulations

Section 14: TRANSPORT INFORMATION

Note:

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition)
The information shown here, may not always agree with the bill of lading shipping description for the material

DOT

UN/ID No	UN1133
Proper Shipping Name	Adhesives
Hazard class	3
Packing Group	II
Special Provisions	149, B52, IB2, T4, TP1, TP8
Description	UN1133 ADHESIVES , 3, II
Emergency Response Guide Number	128

IATA

UN number	UN1133
Proper Shipping Name	Adhesives
Transport hazard class(es)	3
Packing group	II
ERG Code	3L
Special Provisions	A3
Description	UN1133 ADHESIVES , 3, II

IMDG

UN number	UN1133
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UN proper shipping name	Adhesives
Transport hazard class(es)	3
Packing group	II
EmS-No.	F-E, S-D
Description	UN1133 ADHESIVES , 3, II, (-30°C c.c.)

Section 15: REGULATORY INFORMATION

Global Inventories

TSCA	Listed
DSL	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

United States of America

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No.
Toluene	108-88-3
Hexane	110-54-3
Cyclohexane	110-82-7

SARA 311/312 Hazard Categories

Classification is shown in section 2 of this SDS

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.
4-tert-Butylphenol	98-54-4

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

No information available

Key Literature References and Sources for Data

No information available

Prepared By

Product Safety & Regulatory Affairs

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Revision date	06-Aug-2019
Revision note	SDS sections updated, 1, 15, 16.
Training Advice	Provide adequate information, instruction, and training for operator
Further information	No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet