

LIQUID 4045 Revision Number 2 Revision Date 02-Jul-2018 Supersedes Date: 02-Oct-2014

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name

LIQUID 4045

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

Recommended useAdhesives.Uses advised againstNo 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

Serious Eye Damage/Eye Irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

2.2. Label Elements

EMERGENCY OVERVIEW

DANGER

Hazard statements Causes serious eye irritation May cause drowsiness or dizziness Highly flammable liquid and vapor

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Appearance No information available Physical State Liquid

Odor No information available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. — 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 Wear protective gloves/protective clothing/eye protection/face protection Keep cool

Precautionary Statements - Response

Not applicable

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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use CO2, dry chemical, or foam to extinguish.

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Not applicable

Unknown acute toxicity

13% of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

No information available.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

Chemical Name	CAS No	Weight-%
Methyl ethyl ketone	78-93-3	15 - 40

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Acetone	67-64-1	15 - 40	

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

Section 4: FIRST AID MEASURES				
4.1. Description of first aid measure	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	Irritating to eyes. Drowsiness. Dizziness.			
4.3. Indication of any immediate me	edical 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 M	EASURES			
5.1. Extinguishing media				

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Suitable Extinguishing Media

Use CO2, dry chemical, or foam. Move containers from fire area if you can do it without risk.

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	
Sensitivity to Static Discharge	

None. May be ignited by friction, heat, sparks or flames.

5.3. Advice for firefighters

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Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing.
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. See Section 12 for additional Ecological Information.
6.3. Methods and material for conta	inment 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 personal protective equipment as required. Dike far ahead of spill for later disposal. Soak up with inert absorbent material. Use clean non-sparking tools to collect absorbed material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.
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 Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static charges. Use explosion-proof electrical/ventilating/lighting/ equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep only in the original container/package in a cool well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).
Incompatible Materials	Strong acids and bases.

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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
Methyl ethyl ketone 78-93-3	STEL: 300 ppm TWA: 200 ppm	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m ³ STEL: 300 ppm STEL: 885 mg/m ³	TWA: 200 ppm TWA: 590 mg/m ³	TWA: 200 ppm TWA: 590 mg/m ³ STEL: 300 ppm STEL: 885 mg/m ³
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/m³	TWA: 1000 ppm TWA: 2400 mg/m ³ STEL: 1260 ppm STEL: 3000 mg/m ³

Chemical Name	Argentina	Brazil	Chile	Venezuela
Methyl ethyl ketone	TWA: 200 ppm	TWA: 155 ppm	TWA: 175 ppm	STEL: 300 ppm
78-93-3	STEL: 300 ppm	TWA: 460 mg/m ³	TWA: 516 mg/m ³	TWA: 200 ppm
Acetone	TWA: 500 ppm	TWA: 780 ppm	TWA: 438 ppm	STEL: 750 ppm
67-64-1	STEL: 750 ppm	TWA: 1870 mg/m ³	TWA: 1040 mg/m ³	TWA: 500 ppm

8.2. Exposure controls

Engineering Controls	Showers	
	Eyewash stations	
	Ventilation systems.	

Personal protective equipment [PPE]

Eye/Face ProtectionTight sealing safety goggles. Face protection shield.Skin and Body ProtectionWear 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.
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 ConsiderationsUse personal protective equipment as required. Handle in accordance with good industrial
hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep
away from food, drink and animal feeding stuffs. Avoid breathing (dust, vapor, mist, gas).

Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. 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

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Color Odor Odor Threshold	No information available No information available No information available		
<u>Property</u> pH Melting point / freezing point Boiling point / boiling range Flash Point Eveneration Bate	<u>Values</u> No information available No information available > 56 °C / 133 °F -17 °C / 1 °F No information available	<u>Remarks • Method</u>	
Evaporation Rate Flammability (solid, gas) Flammability Limit in Air	No information available	Not applicable for liquids	5
Upper flammability or explosive limits	No information available		
Lower flammability or explosive limits	No information available		
Vapor Pressure	No information available		
Vapor Density Relative Density	No information available No information available	Water Solubility Solubility in Other Solvents Partition Coefficient Autoignition Temperature Decomposition Temperature	No information available No information available No information available No information available
Kinematic Viscosity	No information available		
Dynamic Viscosity	No information available		
Explosive Properties Oxidizing Properties	No information available No information available		
9.2. Other information Softening Point Molecular Weight Solvent content (%) Solid content (%) Density VOC	No information available No information available No information available 26.3 0.871 g/ml 37.2 %		

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

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Keep away from heat, sparks and flames.

10.5. Incompatible materials

Strong acids and bases.

10.6. Hazardous decomposition products

None known based on information supplied.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Product InformationNo data availableInhalationMay cause drowsiness or dizziness.Eye contactIrritating to eyes. Avoid contact with eyes.Skin ContactNo data available.IngestionNo data available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl ethyl ketone 78-93-3	= 2483 mg/kg (Rat)	= 5000 mg/kg (Rabbit)	= 11700 ppm (Rat)4 h
Acetone 67-64-1	= 5800 mg/kg(Rat)	>15800 mg/Kg (rat)	= 79 mg/l(Rat) 4 h

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

Symptoms Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Irritation Corrosivity Sensitization Germ Cell Mutagenicity Reproductive Toxicity Developmental Toxicity Teratogenicity STOT - Single Exposure STOT - Repeated Exposure	No information available. No information available.
STOT - Single Exposure	No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
			Microorganiania	

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Methyl ethyl ketone 78-93-3	EC50=1972 mg/l (Pseudokirchneriella subcapitata)	LC50 96 h 3130 - 3320 mg/L (Pimephales promelas flow-through)	EC50 = 3403 mg/L 30 min EC50 = 3426 mg/L 5 min	EC50 48 h > 308 mg/L (Daphnia magna)
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)

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 accor	rdance with federal, state and local regulations
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Section 14: TRANSPORTATION 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 Proper Shipping Name Hazard Class Packing Group Reportable Quantity (RQ) Special Provisions Description Emergency Response Guide Number	UN1133 Adhesives 3 II (Acetone: RQ (kg)= 2270.00, Methyl ethyl ketone: RQ (kg)= 2270.00) 149, B52, IB2, T4, TP1, TP8 UN1133, Adhesives, 3, II 128
IATA UN Number Proper Shipping Name Transport hazard class(es) Packing Group ERG Code Special Provisions Description	UN1133 Adhesives 3 II 3L A3 UN1133, Adhesives, 3, II

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IMDG UN N

UN Number	UN1133
Proper Shipping Name	Adhesives
Transport hazard class(es)	3
Packing Group	II
EmS-No	F-E, S-D
Description	UN1133, Adhesives, 3, II, (-17°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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

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.

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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	02-Jul-2018	
Revision Note	SDS sections updated, 1, 2, 4, 5, 6, 7, 8, 11, 12, 14, 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