

# MATERIAL SAFETY DATA SHE

## 1. Product and Company Identification

**Material name** QT LIQ. ALUMA HYDE II SOLVENT/THINNER  
**Version #** 01  
**Issue date** 10-11-2013  
**CAS #** Mixture  
**Product code** 083-002-001  
**Manufacturer information** BROWNELLS, INC.  
200 South Front Street  
Montezuma, Iowa 50171 United States  
www.brownells.com  
(641) 623-5401  
24 hour Emergency Number, (352)-323-3500

## 2. Hazards Identification

**Emergency overview** WARNING

FLAMMABLE LIQUID AND VAPOR.  
Will be easily ignited by heat, spark or flames.

Harmful in contact with eyes. Possible cancer hazard - may cause cancer based on animal data. Irritating to skin. Overexposure can cause central nervous system (CNS) depression and/or other target organ effects. Irritating to respiratory system. Prolonged exposure may cause chronic effects.

**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Potential health effects**

**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.

**Eyes** Contact may irritate or burn eyes. Eye contact may result in corneal injury. Do not get this material in contact with eyes.

**Skin** Irritating to skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Avoid contact with the skin.

**Inhalation** Irritating to respiratory system. Avoid breathing dust/fume/gas/mist/vapors/spray. Breathing high concentrations can cause irregular heartbeats which may be fatal.

**Ingestion** Components of the product may be absorbed into the body by ingestion. Do not ingest. Harmful or fatal if swallowed.

**Target organs** Blood. Eyes. Gastro-intestinal tract. Liver. Respiratory system. Skin. Kidneys. Central nervous system.

**Chronic effects** Unconsciousness. Conjunctiva. Edema. Jaundice. Cyanosis (blue tissue condition, nails, lips, and/or skin). Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

**Signs and symptoms** Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Skin irritation. Defatting of the skin. Rash.

**Potential environmental effects** Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
XYLENES (O-, M-, P- ISOMERS)	1330-20-7	60 - 80
ETHYL BENZENE	100-41-4	10 - 20

## 4. First Aid Measures

### First aid procedures

**Eye contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Skin contact**

Take off immediately all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops and persists.

**Inhalation**

Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). Get medical attention immediately.

**Ingestion**

Call a physician immediately. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center.

**Notes to physician**

Symptoms may be delayed. Monitor for respiratory distress. This material (or component) sensitizes the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administration of sympathomimetic drugs should be avoided.

**General advice**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible).

## 5. Fire Fighting Measures

**Flammable properties**

Flammable by OSHA criteria. Heat may cause the containers to explode. Runoff to sewer may cause fire or explosion hazard.

**Extinguishing media****Suitable extinguishing media**

Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

**Protection of firefighters****Specific hazards arising from the chemical**

Fire may produce irritating, corrosive and/or toxic gases.

**Protective equipment and precautions for firefighters**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Fire fighting equipment/instructions**

Not available.

## 6. Accidental Release Measures

**Personal precautions**

Keep unnecessary personnel away. Keep out of low areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

**Methods for containment**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

**Methods for cleaning up**

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).

Never return spills in original containers for re-use.

## 7. Handling and Storage

**Handling**

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not get this material in contact with eyes. Avoid contact with skin. Wash thoroughly after handling.

**Storage**

The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks and open flame. Keep container tightly closed. Keep out of the reach of children. Use care in handling/storage.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

Components	Type	Value
ETHYL BENZENE (CAS 100-41-4)	STEL	125 ppm
XYLENES (O-, M-, P-ISOMERS) (CAS 1330-20-7)	TWA	100 ppm
	STEL	150 ppm
	TWA	100 ppm

#### U.S. - OSHA

Components	Type	Value
ETHYL BENZENE (CAS 100-41-4)	TWA	100 ppm
XYLENES (O-, M-, P-ISOMERS) (CAS 1330-20-7)	TWA	100 ppm

### Engineering controls

Ensure adequate ventilation, especially in confined areas. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

### Personal protective equipment

#### Eye / face protection

Do not get in eyes. Chemical goggles are recommended.

#### Skin protection

Avoid contact with the skin. Wear appropriate chemical resistant clothing. Chemical resistant gloves.

#### Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

#### General hygiene considerations

When using do not smoke. Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

Appearance	Colorless.
Physical state	Liquid.
Form	Liquid.
Color	Colorless. Transparent.
Odor	Sweet. Pungent. Aromatic. Hydrocarbon-like.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	0.9 kPa (7mm Hg) (at 20 deg. C)
Vapor density	< 3.7 (Air = 1)
Boiling point	280 - 288 °F (137.78 - 142.22 °C)
Melting point/Freezing point	-54 - -13 °F (-47.8 - -25 °C) estimated
Solubility (water)	< 0.1 % (<0.1% w/w)
Specific gravity	< 0.87 (water = 1)
Relative density	Not available.
Flash point	81.00 °F (27.22 °C) Closed Cup
Flammability limits in air, upper, % by volume	< 7 %
Flammability limits in air, lower, % by volume	> 1 %
Auto-ignition temperature	810 °F (432.22 °C) estimated
Other data	
Density	0.86 g/cm <sup>3</sup> estimated

## 10. Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition.
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<b>Conditions to avoid</b>	Heat, flames and sparks. This product may react with strong oxidizing agents.
<b>Incompatible materials</b>	Strong acids, alkalies and oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

### Toxicological data

Product	Species	Test Results
QT LIQ. ALUMA HYDE II SOLVENT/THINNER (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	2834 ml/kg
<i>Inhalation</i>		
LC50	Mouse	4908.4165 mg/l, 24 Hours, estimated
LCL0	Rat	10050 mg/l
<i>Oral</i>		
LD50	Mouse	4533 mg/kg
	Rat	5049 mg/kg
<i>Other</i>		
LD50	Mouse	2828.2827 ml/kg, estimated

Components	Species	Test Results
ETHYL BENZENE (CAS 100-41-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	17800 mg/kg
<i>Oral</i>		
LD50	Rat	3500 mg/kg
XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 43 g/kg
<i>Inhalation</i>		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
LCL0	Rat	8000 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg

**Local effects** Components of the product may be absorbed into the body through the skin. Blood disorder may occur after ingestion. Liver toxicity. Irritating to respiratory system. Irritating to skin. Contact may irritate or burn eyes.

**Chronic effects** Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.

**Subchronic effects** Blood disorder may occur after prolonged inhalation. Blood disorder may occur after ingestion. Blood disorder may occur after prolonged skin contact. Kidney injury may occur.

**Carcinogenicity** Possible cancer hazard - may cause cancer based on animal data.

#### ACGIH Carcinogens

ETHYL BENZENE (CAS 100-41-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
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XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)

A4 Not classifiable as a human carcinogen.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

ETHYL BENZENE (CAS 100-41-4)

2B Possibly carcinogenic to humans.

XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

<b>Epidemiology</b>	Hazardous by OSHA criteria.
<b>Neurological effects</b>	Hazardous by OSHA criteria.
<b>Reproductive effects</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.
<b>Teratogenicity</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.
<b>Further information</b>	Symptoms may be delayed.

## 12. Ecological Information

### Ecotoxicological data

Product		Species	Test Results
QT LIQ. ALUMA HYDE II SOLVENT/THINNER (CAS Mixture)			
Crustacea	EC50	Daphnia	32.43 mg/l, 48 hours
Fish	LC50	Fish	48.83 mg/l, 96 hours

**Ecotoxicity** Components of this product are hazardous to aquatic life.

**Environmental effects** Harmful to aquatic organisms.

**Persistence and degradability** Not available.

### Bioaccumulation / Accumulation

## 13. Disposal Considerations

**Waste codes** D001: Waste Flammable material with a flash point <140 F

### US RCRA Hazardous Waste U List: Reference

XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)

U239

**Disposal instructions** Dispose of in accordance with current, applicable local, state, and federal regulations. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001.

## 14. Transport Information

### DOT

#### Basic shipping requirements:

<b>UN number</b>	UN1307
<b>Proper shipping name</b>	Xylenes
<b>Hazard class</b>	3
<b>Packing group</b>	III

### IATA

<b>UN number</b>	UN1307
<b>UN proper shipping name</b>	Xylenes
<b>Transport hazard class(es)</b>	3
<b>Packing group</b>	III

### IMDG

<b>UN number</b>	UN1307
<b>UN proper shipping name</b>	Xylenes
<b>Transport hazard class(es)</b>	3
<b>Packing group</b>	III

DOT



IATA; IMDG



## 15. Regulatory Information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

### DEA Exempt Chemical Mixtures Code Number

Not regulated.

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

ETHYL BENZENE (CAS 100-41-4) 0.1 %

XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7) 1.0 %

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

ETHYL BENZENE (CAS 100-41-4) Listed.

XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7) Listed.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA (Superfund) reportable quantity

XYLENES (O-, M-, P- ISOMERS): 100

ETHYL BENZENE: 1000

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

No

#### SARA 311/312 Hazardous chemical

No

### Inventory status

#### Country(s) or region

Australia

Canada

#### Inventory name

Australian Inventory of Chemical Substances (AICS)

Domestic Substances List (DSL)

#### On inventory (yes/no)\*

Yes

Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

BENZENE (CAS 71-43-2) (CAS 71-43-2) Listed: February 27, 1987 Carcinogenic.  
 ETHYL BENZENE (CAS 100-41-4) Listed: June 11, 2004 Carcinogenic.

**US - California Proposition 65 - CRT: Listed date/Developmental toxin**

BENZENE (CAS 71-43-2) (CAS 71-43-2) Listed: December 26, 1997 Developmental toxin.  
 TOLUENE (CAS 108-88-3) Listed: January 1, 1991 Developmental toxin.

**US - California Proposition 65 - CRT: Listed date/Female reproductive toxin**

TOLUENE (CAS 108-88-3) Listed: August 7, 2009 Female reproductive toxin.

**US - California Proposition 65 - CRT: Listed date/Male reproductive toxin**

BENZENE (CAS 71-43-2) (CAS 71-43-2) Listed: December 26, 1997 Male reproductive toxin.

**US - New Jersey RTK - Substances: Listed substance**

ETHYL BENZENE (CAS 100-41-4) Listed.  
 XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7) Listed.

**US. Massachusetts RTK - Substance List**

ETHYL BENZENE (CAS 100-41-4)  
 XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)

**US. Pennsylvania RTK - Hazardous Substances**

ETHYL BENZENE (CAS 100-41-4) Listed.  
 XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7) Listed.

**US. Rhode Island RTK**

ETHYL BENZENE (CAS 100-41-4)  
 XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)

**16. Other Information**

**Further information**

HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**

Health: 2\*  
 Flammability: 3  
 Physical hazard: 0

**NFPA ratings**

Health: 2  
 Flammability: 3  
 Instability: 0

**Disclaimer**

The information provided in this Material 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.

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

This document has undergone significant changes and should be reviewed in its entirety.