

**MATERIAL SAFETY DATA SHEET**  
**6-BROMO-1-HEXENE 98 %**

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:** 6-BROMO-1-HEXENE  
**Catalog Numbers:** 99.62  
**Synonyms:**  
**Company Identification:** Tau-Chem, Ltd.  
 Nobelova 34, P.O. Box 29  
 836 05 Bratislava, Slovak Republic  
 Phone: +421 2 44 452 252 Fax: +421 2 44 457 645

Relevant identified uses of substance or mixture and uses advised against  
 Identified uses Laboratory chemicals, Manufacture of substances

**POISON CENTER:** National Toxicological Information Centre  
 Limbová 5, 833 05 Bratislava,

**Emergency Numbers Slovakia:** Phone: +421 2 54 774 166 Fax: +421 2 54 774 605

**Section 2 - Hazards Identification**

**Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Flammable liquids, (Category 3)  
 Skin irritation (Category 2)  
 Eye irritation (Category 2)  
 Reproductive toxicity (Category 2)  
 Specific target organ toxicity – single exposure (Category 3)

According to European Directive 67/548/EEC as amended.  
 Flammable. May cause harm to the unborn child. Irritating to eyes, respiratory system and skin.

**Labeling according to Regulation (EC) No 1272/2008 [CLP]**

**Label elements**



Pictogram  
 Signal word Danger  
 Hazard statement(s)  
 H226 Flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H361d Suspected of damaging the unborn child.  
 Precautionary statement(s)

P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P403+P235	Store in a <u>well-ventilated</u> place. Keep cool.
P501	Dispose of contents/container to in accordance with local/regional/national/international regulation.

Hazard symbol(s)

**According to European Directive 67/548/EEC as amended**



F	Flammable.
T	Toxic.
R-phrase(s)	
R10	Flammable.
R61	May cause harm to the unborn child.
R36/37/38	Irritating to eyes, respiratory system and skin.
S-phrase(s)	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53	Avoid exposure - obtain special instructions before use.
Restricted to professional users.	
<b>Other hazards</b>	None.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
2695-47-8	6-BROMO-1-HEXENE	98	220-267-9
<b>Classification</b>	Flam. Liq. 3; Skin Irrit.2; Eye Irrit.2; Repr. Tox. 2; STOT SE 3; H226; H315; H319;H332;H335; H361d F , Xi, R61-R10-R36/37/38		

For the full text of the H-Statements mentioned in this Section, see Section 16.

### Section 4 - First Aid Measures

<b>General advice:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>If inhaled:</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
<b>In case of skin contact:</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In case eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### Section 5 - Fire Fighting Measures

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire fighters:** Wear self contained apparatus breathing apparatus for fire fighting if necessary.

**Further information** Use water only to cool unopened container.

### Section 6 - Accidental Release Measures

**Personal precautions:** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

### Section 7 - Handling and Storage

**Precautions for safe handling:** Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Conditions for safe storage:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### Section 8 - Exposure Controls, Personal Protection

**Personal protective equipment:**

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection** The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

**Eye protection:** Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOH (US) or EN

	166 (EU)
<b>Skin and body protection:</b>	Complete suit protecting against chemicals, flame retardant antistatic protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
<b>Hygiene measures:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9 - Physical and Chemical Properties

### Appearance

Form: Clear Liquid

Colour: Light yellow

### Safety data:

pH: Not available

Melting Point: Not available

Boiling Point: 47 - 51 °C at 21 hPa - lit.

Flash Point: 52 °C

Ignition temperature: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Solubility in water: Hydrolysis  
1,22 g/cm<sup>3</sup> at 25 °C

Density:

Refractive Index: Not available

Molecular Formula: C<sub>6</sub>H<sub>11</sub>Br

Molecular Weight: 163.06 g/mol

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under recommended storage conditions.

**Conditions to Avoid:** Heat, flames and sparks.

**Materials to avoid:** Strong oxidizing agents, strong bases.

**Hazardous Decomposition Products** Hazardous decomposition products under fire conditions.  
– Carbon oxides, Hydrogen bromide gas.

## Section 11 - Toxicological Information

**Acute toxicity** No data available

**Skin corrosion/irritation** No data available

**Serious eye damage/eye irritation** No data available

**Respiratory or skin sensitization** No data available

**Germ cell mutagenicity** No data available

### Carcinogenicity:

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

<b>Reproductive toxicity:</b>	No data available
<b>Specific target organ toxicity – single exposure</b>	No data available.
<b>Specific target organ toxicity – repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Potential health effect:</b>	
<b>Inhalation</b>	Harmful if inhaled. Cause respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	Harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes serious eye irritation
<b>Signs and Symptoms of Exposure</b>	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Additional Information</b>	
	RTECS: Not available

### Section 12 – Ecological Information

<b>Toxicity:</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	No data available

### Section 13 - Disposal Considerations

<b>Product</b>	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
<b>Contaminated packaging</b>	Dispose of as unused product.

### Section 14 - Transport Information

	<b>IATA</b>	<b>IMDG</b>	<b>RID/ADR</b>
<b>Proper shipping name:</b>	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
<b>Hazard Class:</b>	3	3	3
<b>UN Number:</b>	1993	1993	1993
<b>Packing Group:</b>	III	III	III

Marine pollutant: No

### Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

## Section 16 - Other Information

### Text of H-code(s) and R-phrases mentioned in Section 3

Eye Irrit.	Eye irritation.
Flam. Liq.	Flammable liquids.
Skin Irrit.	Skin irritation.
STOT SE	Specific target organ toxicity – single exposure.
Repr. Tox.	Reproductive toxicity
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
F	Flammable.
T	Toxic
R10	Flammable.
R61	May cause harm to the unborn child.
R36/37/38	Irritating to eyes, respiratory system and skin.

**MSDS Creation Date:** 27/3/2007

**Revision #1 Date:**28/06/2011

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Disclaimer:**

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.