



# ETHYL BROMOACETATE (1-13C, 99%)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 07/01/2011

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Supersedes: 28/09/2016

Version: 4.0

CLM-1009

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

|                |                                   |
|----------------|-----------------------------------|
| Product form   | : Substance                       |
| Substance name | : ETHYL BROMOACETATE (1-13C, 99%) |
| EC Index-No.   | : 607-069-00-1 (Unlabeled)        |
| EC-No.         | : 203-290-9 (Unlabeled)           |
| CAS-No.        | : 61203-71-2                      |
| Product code   | : CLM-1009                        |
| Formula        | : <chem>BrCH2*COOCH2CH3</chem>    |

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

#### 1.2.1. Relevant identified uses

|                                  |                             |
|----------------------------------|-----------------------------|
| Main use category                | : Professional use          |
| Industrial/Professional use spec | : For professional use only |

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)  
International: 1-703-741-5970 (24 hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                           |      |
|---------------------------|------|
| Flam. Liq. 3              | H226 |
| Acute Tox. 1 (Oral)       | H300 |
| Acute Tox. 1 (Dermal)     | H310 |
| Acute Tox. 1 (Inhalation) | H330 |

Full text of hazard classes and H-statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

R10  
T+; R26/27/28

Full text of R-phrases: see section 16

#### GHS-US classification

|                           |      |
|---------------------------|------|
| Flam. Liq. 3              | H226 |
| Acute Tox. 1 (Oral)       | H300 |
| Acute Tox. 1 (Dermal)     | H310 |
| Acute Tox. 1 (Inhalation) | H330 |

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

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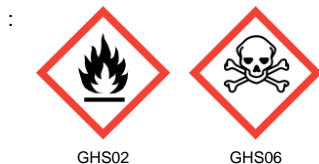
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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

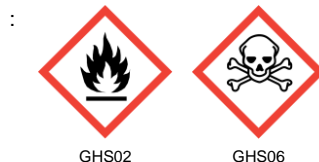
: H226 - Flammable liquid and vapor  
H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical, lighting, ventilating equipment  
P260 - Do not breathe dust, fume, gas, mist, spray, vapors.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.

#### GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H226 - Flammable liquid and vapor  
H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled

Precautionary statements (GHS-US)

: P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment  
P241 - Use explosion-proof electrical, lighting, ventilating equipment  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe dust, fume, gas, mist, spray, vapors.  
P262 - Do not get in eyes, on skin, or on clothing.  
P264 - Wash Both hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
P284 - [In case of inadequate ventilation] wear respiratory protection.  
P301+P310 - If swallowed: Immediately call a poison center or doctor  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P310 - Immediately call a poison center or doctor  
P320 - Specific treatment is urgent (see Hazard pictograms (CLP) on this label)  
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)  
P330 - Rinse mouth.  
P361 - Take off immediately all contaminated clothing.  
P363 - Wash contaminated clothing before reuse.  
P370+P378 - In case of fire: Use Alcohol resistant foam, Dry chemical to extinguish.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to Comply with applicable regulations

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Name                            | Product identifier                                                                                | %   | Classification according to Directive 67/548/EEC                                                                  |
|---------------------------------|---------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------|
| ETHYL BROMOACETATE (1-13C, 99%) | (CAS-No.) 61203-71-2<br>(EC-No.) 203-290-9 (Unlabeled)<br>(EC Index-No.) 607-069-00-1 (Unlabeled) | 100 | R10<br>T+; R26/27/28                                                                                              |
| Name                            | Product identifier                                                                                | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                   |
| ETHYL BROMOACETATE (1-13C, 99%) | (CAS-No.) 61203-71-2<br>(EC-No.) 203-290-9 (Unlabeled)<br>(EC Index-No.) 607-069-00-1 (Unlabeled) | 100 | Flam. Liq. 3, H226<br>Acute Tox. 1 (Oral), H300<br>Acute Tox. 1 (Dermal), H310<br>Acute Tox. 1 (Inhalation), H330 |

Full text of R- and H- phrases: see section 16

| Name                                                  | Product identifier   | %   | GHS-US classification                                                                                             |
|-------------------------------------------------------|----------------------|-----|-------------------------------------------------------------------------------------------------------------------|
| ETHYL BROMOACETATE (1-13C, 99%)<br>(Main constituent) | (CAS-No.) 61203-71-2 | 100 | Flam. Liq. 3, H226<br>Acute Tox. 1 (Oral), H300<br>Acute Tox. 1 (Dermal), H310<br>Acute Tox. 1 (Inhalation), H330 |

Full text of H-phrases: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.                   |
| First-aid measures after inhalation   | : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.               |
| First-aid measures after skin contact | : Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.                           |
| First-aid measures after eye contact  | : Flush eyes with water as a precaution.                                                                                      |
| First-aid measures after ingestion    | : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |

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

|                                     |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : May be fatal if inhaled. May cause respiratory tract irritation.  |
| Symptoms/effects after skin contact | : May be fatal if absorbed through skin. May cause skin irritation. |
| Symptoms/effects after eye contact  | : Contact may cause eye irritation.                                 |
| Symptoms/effects after ingestion    | : May be fatal if swallowed.                                        |

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

|                                |                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Wear self contained breathing apparatus for fire fighting if necessary.                       |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Other information              | : Use water spray to cool unopened containers.                                                  |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

|                      |                                                                                                                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency procedures | : Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.2. For emergency responders

No additional information available

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### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

For containment : 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.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent build up of electrostatic charge.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : 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.

Storage conditions : Store at room temperature away from light and moisture.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH or EN 166.

Skin and body protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                             |                               |
|---------------------------------------------|-------------------------------|
| Physical state                              | : Liquid                      |
| Appearance                                  | : Clear, Liquid               |
| Molecular mass                              | : 168 g/mol (Labeled)         |
| Color                                       | : Colorless to pale yellow    |
| Odor                                        | : No data available           |
| Odor threshold                              | : No data available           |
| pH                                          | : No data available           |
| Relative evaporation rate (butyl acetate=1) | : No data available           |
| Melting point                               | : No data available           |
| Freezing point                              | : No data available           |
| Boiling point                               | : 159 °C (318 °F) - lit.      |
| Flash point                                 | : 47 °C (117 °F) - closed cup |

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|                                 |                                       |
|---------------------------------|---------------------------------------|
| Auto-ignition temperature       | : No data available                   |
| Decomposition temperature       | : No data available                   |
| Flammability (solid, gas)       | : No data available                   |
| Vapor pressure                  | : 3.5 hPa (2.6 mmHg) at 25 °C (77 °F) |
| Relative vapor density at 20 °C | : 5.77 - (Air = 1.0)                  |
| Relative density                | : No data available                   |
| Specific gravity / density      | : 1.506 g/ml at 25 °C (77 °F)         |
| Solubility                      | : Water: 0 %                          |
| Log Pow                         | : 1.12                                |
| Log Kow                         | : No data available                   |
| Viscosity, kinematic            | : No data available                   |
| Viscosity, dynamic              | : No data available                   |
| Explosive properties            | : No data available                   |
| Oxidizing properties            | : No data available                   |
| Explosion limits                | : No data available                   |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable if stored under recommended conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Formed under fire conditions - Carbon oxides, Hydrogen bromide gas.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Fatal if swallowed. Dermal: Fatal in contact with skin. Inhalation: Fatal if inhaled.

| ETHYL BROMOACETATE (1-13C, 99%) (61203-71-2) |                         |
|----------------------------------------------|-------------------------|
| ATE CLP (oral)                               | 0.500 mg/kg body weight |
| ATE CLP (dermal)                             | 5.000 mg/kg body weight |
| ATE CLP (gases)                              | 10.000 ppmV/4h          |
| ATE CLP (vapors)                             | 0.050 mg/l/4h           |
| ATE CLP (dust, mist)                         | 0.005 mg/l/4h           |

|                                                    |                                       |
|----------------------------------------------------|---------------------------------------|
| Skin corrosion/irritation                          | : Not classified<br>No data available |
| Serious eye damage/irritation                      | : Not classified<br>No data available |
| Respiratory or skin sensitization                  | : Not available<br>No data available  |
| Germ cell mutagenicity                             | : Not available                       |
| Carcinogenicity                                    | : Not classified                      |
| Reproductive toxicity                              | : Not available                       |
| Specific target organ toxicity – single exposure   | : Not classified<br>No data available |
| Specific target organ toxicity – repeated exposure | : Not classified<br>No data available |
| Aspiration hazard                                  | : Not classified                      |

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|                                                     |                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Potential Adverse human health effects and symptoms | : Cough. Shortness of breath. Headache. Nausea. Vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated, May cause cyanosis, Shortness of breath, Tremore, Diarrhea, flushing, shivering, dizziness, My cause headache and dizziness, Skin disorders, muscle cramps, tinnitus, Gastrointestinal discomfort. |
| Symptoms/effects after inhalation                   | : May be fatal if inhaled. May cause respiratory tract irritation.                                                                                                                                                                                                                                                                                                                     |
| Symptoms/effects after skin contact                 | : May be fatal if absorbed through skin. May cause skin irritation.                                                                                                                                                                                                                                                                                                                    |
| Symptoms/effects after eye contact                  | : Contact may cause eye irritation.                                                                                                                                                                                                                                                                                                                                                    |
| Symptoms/effects after ingestion                    | : May be fatal if swallowed.                                                                                                                                                                                                                                                                                                                                                           |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

#### ETHYL BROMOACETATE (1-13C, 99%) (61203-71-2)

|                               |                |
|-------------------------------|----------------|
| Persistence and degradability | Not available. |
|-------------------------------|----------------|

### 12.3. Bioaccumulative potential

#### ETHYL BROMOACETATE (1-13C, 99%) (61203-71-2)

|                           |                |
|---------------------------|----------------|
| Log Pow                   | 1.12           |
| Bioaccumulative potential | Not available. |

### 12.4. Mobility in soil

#### ETHYL BROMOACETATE (1-13C, 99%) (61203-71-2)

|                |                |
|----------------|----------------|
| Ecology - soil | Not available. |
|----------------|----------------|

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                  |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional legislation (waste)               | : Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.                                 |
| Product/Packaging disposal recommendations | : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. |
| Ecology - waste materials                  | : Dispose of as unused product.                                                                                                                                  |

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

|             |        |
|-------------|--------|
| UN-No.(DOT) | : 1603 |
| DOT NA no.  | UN1603 |

### 14.2. UN proper shipping name

|                            |                                                        |
|----------------------------|--------------------------------------------------------|
| Proper Shipping Name (DOT) | : Ethyl bromoacetate                                   |
| Class (DOT)                | : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132 |
| Hazard labels (DOT)        | : 6.1 - Poison<br>3 - Flammable liquid                 |



|                     |                      |
|---------------------|----------------------|
| Packing group (DOT) | : II - Medium Danger |
|---------------------|----------------------|

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|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Special Provisions (49 CFR 172.102)   | : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.<br>T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)<br>TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DOT Packaging Non Bulk (49 CFR 173.xxx)   | : 202                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| DOT Packaging Bulk (49 CFR 173.xxx)       | : 243                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Marine pollutant                          | : No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### 14.3. Additional information

|                               |                                                |
|-------------------------------|------------------------------------------------|
| Other information             | : No supplementary information available.      |
| Special transport precautions | : IATA Passenger: Not permitted for transport. |

#### Overland transport

|                                           |                                                   |
|-------------------------------------------|---------------------------------------------------|
| Packing group (ADR)                       | : II                                              |
| Class (ADR)                               | : 6.1 - Toxic substances                          |
| Hazard identification number (Kemler No.) | : 63                                              |
| Classification code (ADR)                 | : TF1                                             |
| Hazard labels (ADR)                       | : 6.1 - Toxic substances<br>3 - Flammable liquids |



|               |   |
|---------------|---|
| Orange plates | : |
|---------------|---|

|                               |         |
|-------------------------------|---------|
| Tunnel restriction code (ADR) | : D/E   |
| Limited quantities (ADR)      | : 100ml |
| EAC                           | : 2W    |
| APP                           | : A(fl) |
| Exempted quantities (ADR)     | : E4    |

#### Transport by sea

|                             |                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Vessel Stowage Location | : D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded. |
| DOT Vessel Stowage Other    | : 40 - Stow "clear of living quarters"                                                                                                                                                                                                                                                                                                                |
| MFAG-No                     | : 155                                                                                                                                                                                                                                                                                                                                                 |

#### Air transport

|                                                                  |                                                    |
|------------------------------------------------------------------|----------------------------------------------------|
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : Forbidden                                        |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : Forbidden                                        |
| Civil Aeronautics Law                                            | : Toxic and infectious substances/Toxic substances |

### 14.4. Environmental hazards

|                   |                                           |
|-------------------|-------------------------------------------|
| Other information | : No supplementary information available. |
|-------------------|-------------------------------------------|



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### 14.5. Special precautions for user

Special transport precautions : IATA Passenger: Not permitted for transport.

### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| ETHYL BROMOACETATE (1-13C, 99%) (61203-71-2) |                                                |
|----------------------------------------------|------------------------------------------------|
| SARA Section 311/312 Hazard Classes          | Fire hazard<br>Immediate (acute) health hazard |

### 15.2. International regulations

#### CANADA

| ETHYL BROMOACETATE (1-13C, 99%) (61203-71-2)          |  |
|-------------------------------------------------------|--|
| Listed on the Canadian DSL (Domestic Substances List) |  |

#### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

| ETHYL BROMOACETATE (1-13C, 99%)(61203-71-2)                         |                                                                                                              |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List               | No                                                                                                           |
| U.S. - California - Proposition 65 - Developmental Toxicity         | No                                                                                                           |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No                                                                                                           |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male   | No                                                                                                           |
| State or local regulations                                          | U.S. - Pennsylvania - RTK (Right to Know) List<br>U.S. - New Jersey - Right to Know Hazardous Substance List |

## SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| Acute Tox. 1 (Dermal)     | Acute toxicity (dermal) Category 1                              |
| Acute Tox. 1 (Inhalation) | Acute toxicity (inhalation) Category 1                          |
| Acute Tox. 1 (Oral)       | Acute toxicity (oral) Category 1                                |
| Flam. Liq. 3              | Flammable liquids Category 3                                    |
| H226                      | Flammable liquid and vapor                                      |
| H300                      | Fatal if swallowed                                              |
| H310                      | Fatal in contact with skin                                      |
| H330                      | Fatal if inhaled                                                |
| R10                       | Flammable                                                       |
| R26/27/28                 | Very toxic by inhalation, in contact with skin and if swallowed |
| T+                        | Very toxic                                                      |

NFPA health hazard

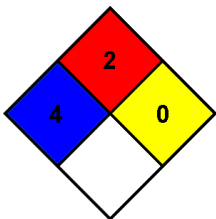
: 4 - Materials that, under emergency conditions, can be lethal.

NFPA fire hazard

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.





# ETHYL BROMOACETATE (1-13C, 99%) CLM-1009

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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### Hazard Rating

|              |                                                                                                                  |
|--------------|------------------------------------------------------------------------------------------------------------------|
| Health       | : 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures |
| Flammability | : 2 Moderate Hazard                                                                                              |
| Physical     | : 0 Minimal Hazard                                                                                               |

### CIL Substance SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*