1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product Identity: Stemlock Gas Bag Aerosol
Alternate Names: Stemlock Gas Bag Aerosol

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use: See Technical Data Sheet.
Application Method: See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet
Company Name: LHB Industries
8833 Fleischer Place
Berkeley, MO 63134

Emergency
24 hour Emergency Telephone No.: (800) 633-8253 (PERS)
Customer Service: LHB Industries: (314) 423-4333

2. Hazard identification of the product

2.1. Classification of the substance or mixture
Flam. Gas 1; H220: Extremely flammable gas.
Press. Gas; H280: Contains gas under pressure; may explode if heated.

2.2. Label elements
Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.
Danger

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.

[Prevention]:
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

[Response]:
P377 Leaking gas fire - do not extinguish unless leak can be stopped safely.
P381 Eliminate all ignition sources if safe to do so.

[Storage]:
P410+403 Protect from sunlight. Store in a well ventilated place.

[Disposal]:
No GHS disposal statements

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Number: 0068476-86-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>10 - 25</td>
<td></td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: 0000057-55-6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[1] Substance classified with a health or environmental hazard.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures
General
In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion
If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Overview
ROUTES OF EXPOSURE: Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.
EFFECTS OF OVEREXPOSURE: Irritation of eyes, skin and upper respiratory system.
SIGNS AND SYMPTOMS OF OVEREXPOSURE: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGRAVATED BY EXPOSURE: Pre-existing respiratory, skin, eye, liver, kidney and lymphatic disorders.
See section 2 for further details.

5. Fire-fighting measures

5.1. Extinguishing media
Carbon Dioxide, Dry Chemicals, Foam

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition: Oxides of carbon and sulfur, formaldehyde gas and thiols.
Keep away from heat / sparks / open flames / hot surfaces - No smoking.

5.3. Advice for fire-fighters
SPECIAL EXPOSURE HAZARDS: Do not expose to temperatures over 120°F. Keep away from heat, sparks and flame. Containers may explode when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL PROTECTIVE EQUIPMENT: Water may be used to keep fire-exposed containers cool. Fire fighters should wear full protective clothing, including self-contained breathing equipment.
6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Read entire label before using and follow all label directions.

6.2. Environmental precautions

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Eliminate all sources of ignition. Provide good ventilation and minimize the breathing of vapors and avoid skin contact. Dike spill area and absorb the spilled liquid with earth, sawdust or a commercially available absorbent. Shovel spent absorbent into recovery or salvage drums for appropriate disposal. CATEGORY - NFPA 30B Level 1 Aerosol

Do not store where temperatures may exceed 120°F (48.9°C).

7. Handling and storage

7.1. Precautions for safe handling

Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Do not take internally. Do not consume food, drink or smoke while handling this product.

Keep from freezing. Avoid storage in high temperatures or near open flame. Store in dry cool place.

Incompatible materials: Strong oxidizers and alkali metals.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection
8.1. Control parameters

### Exposure

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000057-55-6</td>
<td>Propylene Glycol</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA(Aerosol): 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>10 mg/m³ TWA (listed as AIHA WEEL)</td>
</tr>
<tr>
<td>0068476-86-8</td>
<td>Petroleum gases, liquefied, sweetened</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

### Carcinogen Data

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000057-55-6</td>
<td>Propylene Glycol</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
<tr>
<td>0068476-86-8</td>
<td>Petroleum gases, liquefied, sweetened</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

**Respiratory**

Wear an appropriate (Type TC-23C-49) properly fitted half-mask or a full facepiece NIOSH approved cartridge respirator during and after coating application unless air monitoring demonstrates vapor/mist levels are below the permissible limits. Follow respirator manufacturer’s directions for use.

**Eyes**

Use chemical safety glasses, goggles, and face shields for eye protection.

**Skin**

Use impermeable aprons and protective clothing whenever possible to prevent skin contact. The use of head caps is strongly recommended. Wear chemical resistant (Nitrile or Viton) gloves to prevent skin contact.

**Engineering Controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices Avoid contact with skin and clothing. Wear suitable protective clothing. Body garments used should be based upon the task being performed (e.g., lab coat, chemical resistant protective suit, sleevelets, synthetic apron, gauntlets) to avoid exposed skin surfaces. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless Liquid/Gas</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Measured</td>
</tr>
<tr>
<td>pH</td>
<td>10</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Flash Point</td>
<td>-156 F (propellant only)</td>
</tr>
<tr>
<td>Evaporation rate (Ether = 1)</td>
<td>Slower than ether</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Gas</td>
</tr>
</tbody>
</table>
| Upper/lower flammability or explosive limits | Lower Explosive Limit: 1.8
                                               Upper Explosive Limit: 9.5 |
| Vapor pressure (Pa)                          | Not Measured                               |
| Vapor Density                                | >1 (AIR=1)                                 |
| Specific Gravity                             | Not Measured                               |
| Solubility in Water                          | Soluble                                    |
| Partition coefficient n-octanol/water (Log Kow)| Not Measured                             |
| Auto-ignition temperature                    | Not Measured                               |
| Decomposition temperature                    | Not Measured                               |
| Viscosity (cSt)                              | Not Measured                               |

9.2. Other information

No other relevant information.

10. Stability and reactivity
10.1. Reactivity
Hazardous Polymerization will not occur.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
Temperatures above 160°C

10.5. Incompatible materials
Strong oxidizers and alkali metals.

10.6. Hazardous decomposition products
Oxides of carbon and sulfur, formaldehyde gas and thiols.

11. Toxicological information

Acute toxicity

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects of the liver, urinary and blood forming systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Professions associated with prolonged exposures to organic solvents, such as painters, may show an increased risk of hematological (blood) related cancers.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LD50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LD50, mg/L/4hr</th>
<th>Inhalation Gas LD50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum gases, liquefied, sweetened - (68476-86-8)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Propylene Glycol - (57-55-6)</td>
<td>20,000.00, Rat - Category: NA</td>
<td>20,800.00, Rabbit - Category: NA</td>
<td>105.00, Rat - Category: NA</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).
12. Ecological information

12.1. Toxicity
No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum gases, liquefied, sweetened - (68476-86-8)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Propylene Glycol - (57-55-6)</td>
<td>40,613.00, Oncorhynchus mykiss</td>
<td>18,340.00, Ceriodaphnia dubia</td>
<td>19,000.00 (96 hr), Pseudokirchneriella subcapitata</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
There is no data available on the preparation itself.

12.3. Bioaccumulative potential
Not Measured
12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects
No data available.

13. Disposal considerations

13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

14.1. UN number
DOT (Domestic Surface Transportation) Not Applicable
IMO / IMDG (Ocean Transportation) Not Regulated
ICAO/IATA Not Regulated

14.2. UN proper shipping name
Consumer Commodity

14.3. Transport hazard class(es)
DOT Hazard Class: ORM-D
DOT Label: ---

14.4. Packing group
Not Applicable

14.5. Environmental hazards
IMDG Marine Pollutant: No

14.6. Special precautions for user
No further information

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification A
US EPA Tier II Hazards

Fire: Yes
Sudden Release of Pressure: Yes
Reactive: No
Immediate (Acute): No
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

N.J. RTK Substances (>1%):
Propylene Glycol

Penn RTK Substances (>1%):
Propylene Glycol

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.
This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

IMPORTANT NOTE: This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or any process. Final determination of suitability of any material is the sole responsibility of the user.

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