1 Identification

- Product identifier
  - Trade name: 38403 Blenz In
  - Article number: 38403
  - Application of the substance / the mixture: Coating
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: SEM Products Inc.
    1685 Overview Drive
    Rock Hill, SC  29730
    803 207 8225
- Information department:
  cust_care@semproducts.com : SEM Products,Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT
- Emergency telephone number: CHEMTREC 1-800-424-9300

2 Hazard(s) identification

- Classification of the substance or mixture
  - GHS02 GHS04 Flame, Gas cylinder
    Flam. Aerosol 1 H222 Extremely flammable aerosol.
  - GHS04 Gas cylinder
    Press. Gas H280 Contains gas under pressure; may explode if heated.
  - GHS08 Health hazard
    Repr. 2 H361 Suspected of damaging fertility or the unborn child.
    STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
  - GHS07
    Eye Irrit. 2A H319 Causes serious eye irritation.
    STOT SE 3 H336 May cause drowsiness or dizziness.
- Label elements
  - GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms
    GHS02 GHS04 GHS07 GHS08

(Contd. on page 2)
信号词
危险

危害决定性成分
- 甲酮
- 邻苯二甲酸

危害声明
H222 极度易燃
H280 含有气体，在压力下；加热可能会爆炸
H319 严重眼刺激
H361 可能损害生育能力或未出生婴儿
H336 可能引起嗜睡或眩晕
H373 可能造成器官损伤

预防措施声明
P201 使用前获得特殊指示。
P202 在阅读和理解所有安全预防措施之前，切勿处理或操作。
P210 远离热源/火花/明火/热表面。严禁吸烟。
P211 不要向开放的火焰或其它点火源喷射。
P251 压力容器：不得刺穿或焚烧，即使在使用过后。
P260 不要吸入粉尘/烟/气/雾/蒸气/喷雾。
P264 彻底洗净后。
P264 使用防护手套/防护服/眼睛防护/面部防护。
P304+P340 如吸入：将人移到新鲜空气中并保持呼吸。
P305+P351+P338 如在眼睛：用大量水冲洗数分钟。取出隐形眼镜（如果有的话），继续冲洗。
P308+P313 如有暴露或察觉：请寻求医疗援助/注意。
P312 如感到不适：寻求医生的建议。
P314 如眼睛刺激持续：寻求医疗援助/注意。
P337+P313 如暴露于刺激：请寻求医疗援助/注意。
P305+P313 存放于通风良好的地点。保持容器密封。
P403+P233 存放在通风良好的地方。保持容器密封。
P405 存放于锁住的地方。
P410+P412 不要在阳光下存放。不要将温度超过50°C/122°F。
P501 按照当地/区域/国家/国际法规处理内容/容器。

分类系统

- NFPA 标准（0-4）
  - 健康 = 2
  - 火灾 = 4
  - 反应性 = 0

- HMIS 标准（0-4）
  - 健康 = 2
  - 火灾 = 4
  - 反应性 = 0

其他危害
- PBT 和 vPvB 评估
  - PBT：不适用
  - vPvB：不适用
3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:**
  Mixture: consisting of the following components.
  Weight percentages
- **Dangerous components:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>30-40%</td>
</tr>
<tr>
<td>108-94-1 cyclohexanone</td>
<td>13-30%</td>
</tr>
<tr>
<td>68476-86-8 Petroleum gases, liquefied, sweetened</td>
<td>13-30%</td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>1.5-5%</td>
</tr>
<tr>
<td>763-69-9 ethyl 3-ethoxypropionate</td>
<td>20.1-51%</td>
</tr>
</tbody>
</table>

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
  CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
- **Reference to other sections**
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.
Protective Action Criteria for Chemicals

PAC-1:

- 67-64-1 acetone 200 ppm
- 108-94-1 cyclohexanone 60 ppm
- 108-88-3 toluene 67 ppm
- 763-69-9 ethyl 3-ethoxypropionate 1.6 ppm

PAC-2:

- 67-64-1 acetone 3200* ppm
- 108-94-1 cyclohexanone 830 ppm
- 108-88-3 toluene 560 ppm
- 763-69-9 ethyl 3-ethoxypropionate 18 ppm

PAC-3:

- 67-64-1 acetone 5700* ppm
- 108-94-1 cyclohexanone 5000* ppm
- 108-88-3 toluene 3700* ppm
- 763-69-9 ethyl 3-ethoxypropionate 110 ppm

Handling and storage

- Handling:
  - Precautions for safe handling: No special measures required.
  - Information about protection against explosions and fires:
    - Do not spray on a naked flame or any incandescent material.
    - Keep ignition sources away - Do not smoke.
    - Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles:
      - Observe official regulations on storing packagings with pressurized containers.
    - Information about storage in one common storage facility:
      - Not required.
    - Further information about storage conditions:
      - Keep receptacle tightly sealed.

Specific end use(s)

No further relevant information available.

Exposure controls/personal protection

- Additional information about design of technical systems:
  - No further data; see item 7.

- Control parameters
  - Components with limit values that require monitoring at the workplace:
    - The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
    - At this time, the other constituents have no known exposure limits.

67-64-1 acetone

PEL: Long-term value: 2400 mg/m³, 1000 ppm
**Trade name: 38403 Blenz In**

**108-94-1 cyclohexanone**

<table>
<thead>
<tr>
<th>Scale</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL</td>
<td>Long-term value: 590 mg/m³, 250 ppm</td>
</tr>
<tr>
<td></td>
<td>Short-term value: 1187 mg/m³, 500 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 594 mg/m³, 250 ppm</td>
</tr>
<tr>
<td>BEI</td>
<td></td>
</tr>
</tbody>
</table>

**108-88-3 toluene**

<table>
<thead>
<tr>
<th>Scale</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL</td>
<td>Long-term value: 200 mg/m³, 50 ppm</td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 100 mg/m³, 25 ppm</td>
</tr>
<tr>
<td></td>
<td>Skin</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 50 mg/m³, 20 ppm</td>
</tr>
<tr>
<td></td>
<td>Skin</td>
</tr>
<tr>
<td>TLV</td>
<td>Long-term value: 75 mg/m³, 20 ppm</td>
</tr>
<tr>
<td></td>
<td>BEI</td>
</tr>
</tbody>
</table>

**Ingredients with biological limit values:**

**67-64-1 acetone**

<table>
<thead>
<tr>
<th>Scale</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI</td>
<td>50 mg/L</td>
</tr>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Acetone (nonspecific)</td>
</tr>
</tbody>
</table>

**108-94-1 cyclohexanone**

<table>
<thead>
<tr>
<th>Scale</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI</td>
<td>80 mg/L</td>
</tr>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift at end of workweek</td>
</tr>
<tr>
<td></td>
<td>Parameter: 1.2-Cyclohexanediol with hydrolysis (nonspecific, semi-quantitative)</td>
</tr>
<tr>
<td></td>
<td>8 mg/L</td>
</tr>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Cyclohexanol with hydrolysis (nonspecific, semi-quantitative)</td>
</tr>
</tbody>
</table>

**108-88-3 toluene**

<table>
<thead>
<tr>
<th>Scale</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI</td>
<td>0.02 mg/L</td>
</tr>
<tr>
<td></td>
<td>Medium: blood</td>
</tr>
<tr>
<td></td>
<td>Time: prior to last shift of workweek</td>
</tr>
<tr>
<td></td>
<td>Parameter: Toluene</td>
</tr>
<tr>
<td></td>
<td>0.03 mg/L</td>
</tr>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Toluene</td>
</tr>
<tr>
<td></td>
<td>0.3 mg/g creatinine</td>
</tr>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: o-Cresol with hydrolysis (background)</td>
</tr>
</tbody>
</table>
Trade name: 38403 Blenz In

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**
  - **Personal protective equipment:**
  - **General protective and hygienic measures:**
    Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing.
    Wash hands before breaks and at the end of work.
    Store protective clothing separately.
    Avoid contact with the eyes.
    Avoid contact with the eyes and skin.

- **Breathing equipment:**
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

![Protective gloves]

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**
  The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**
  Safety glasses

![Tightly sealed goggles]

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Aerosol
    - Color: According to product specification
  - **Odor:** Characteristic
  - **Odor threshold:** Not determined.
  - **pH-value:** Not determined.

- **Change in condition**
  - **Melting point/Melting range:** Undetermined.
### Boiling point/Boiling range:
55 °C

### Flash point:
-103 °C

### Flammability (solid, gaseous):
Not applicable.

### Ignition temperature:
420 °C

### Decomposition temperature:
Not determined.

### Auto igniting:
Product is not selfigniting.

### Danger of explosion:
In use, may form flammable/explosive vapour-air mixture.

#### Explosion limits:
- **Lower:** 1.3 Vol %
- **Upper:** 13 Vol %

#### Vapor pressure at 20 °C:
233 hPa

#### Density at 20 °C:
0.74651 g/cm³

#### Relative density
Not determined.

#### Vapor density
Not determined.

#### Evaporation rate
Not applicable.

#### Solubility in / Miscibility with Water:
Not miscible or difficult to mix.

#### Partition coefficient (n-octanol/water):
Not determined.

#### Viscosity:
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

#### Solvent content:
- **Organic solvents:** 96.4 %
- **VOC content:** 58.12 %
  - 679.4 g/l / 5.67 lb/gl

#### Solids content:
3.6 %

#### Other information
No further relevant information available.

### 10 Stability and reactivity

#### Reactivity
No further relevant information available.

#### Chemical stability

#### Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.

#### Possibility of hazardous reactions
No dangerous reactions known.

#### Conditions to avoid
No further relevant information available.

#### Incompatible materials:
No further relevant information available.

#### Hazardous decomposition products:
No dangerous decomposition products known.
**11 Toxicological information**

- **Information on toxicological effects**
  - **Acute toxicity:**
  - **LD/LC50 values that are relevant for classification:**
    - **108-94-1 cyclohexanone**
      - Oral LD50 1,535 mg/kg (rat)
      - Dermal LD50 948 mg/kg (rabbit)
      - Inhalative LC50/4 h 8,000 mg/l (rat)
    - **108-88-3 toluene**
      - Oral LD50 5,000 mg/kg (rat)
      - Dermal LD50 12,124 mg/kg (rabbit)
      - Inhalative LC50/4 h 5,320 mg/l (mouse)
  - **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** Irritating effect.
  - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**
    The product shows the following dangers according to internally approved calculation methods for preparations:
    - Irritant
  - **Carcinogenic categories**
    - **IARC (International Agency for Research on Cancer)**
      - 108-94-1 cyclohexanone 3
      - 108-88-3 toluene 3
    - **NTP (National Toxicology Program)**
      - None of the ingredients is listed.
    - **OSHA–Ca (Occupational Safety & Health Administration)**
      - None of the ingredients is listed.

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
  Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
13 Disposal considerations

· Waste treatment methods
  · Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:
  · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number
  · DOT, ADR, IMDG, IATA UN1950

· UN proper shipping name
  · DOT Aerosols, flammable
  · ADR 1950 Aerosols
  · IMDG AEROSOLS
  · IATA AEROSOLS, flammable

· Transport hazard class(es)
  · DOT
    - Class 2.1
    - Label 2.1

  · ADR
    - Class 2 5F Gases
    - Label 2.1

  · IMDG, IATA
    - Class 2.1
    - Label 2.1

· Packing group
  · DOT, ADR, IMDG, IATA Void
### 46.1.5.2 Environmental hazards:

- **Marine pollutant:** No

### Special precautions for user

- **EMS Number:** Warning: Gases F-D,S-U

### Stowage Code

- SW1 Protected from sources of heat.
- SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

### Segregation Code

- SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Store "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### Transport/Additional information:

- **DOT**
  - **Quantity limitations**
    - On passenger aircraft/rail: 75 kg
    - On cargo aircraft only: 150 kg

- **ADR**
  - **Excepted quantities (EQ)**
    - Code: E0
    - Not permitted as Excepted Quantity

- **IMDG**
  - **Limited quantities (LQ)**
    - 1L
  - **Excepted quantities (EQ)**
    - Code: E0
    - Not permitted as Excepted Quantity

### UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

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**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Sara**

  - **Section 355 (extremely hazardous substances):**
    - None of the ingredient is listed.

  - **Section 313 (Specific toxic chemical listings):**
    - 108-88-3 toluene

  - **TSCA (Toxic Substances Control Act):**
    - 67-64-1 acetone
    - 108-94-1 cyclohexanone
    - 108-88-3 toluene
    - 763-69-9 ethyl 3-ethoxypropionate
Trade name: 38403 Blenz In

- **TSCA new (21st Century Act) (Substances not listed)**
  - 68476-86-8 Petroleum gases, liquefied, sweetened

- **Proposition 65**

- **Chemicals known to cause cancer:**
  None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**
  None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**
  None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**
  - 108-88-3 toluene

- **Cancerogenity categories**

- **EPA (Environmental Protection Agency)**
  - 67-64-1 acetone I
  - 108-88-3 toluene II

- **TLV (Threshold Limit Value established by ACGIH)**
  - 67-64-1 acetone A4
  - 108-94-1 cyclohexanone A3
  - 108-88-3 toluene A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  None of the ingredients is listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**

  - GHS02
  - GHS04
  - GHS07
  - GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - acetone
  - toluene

- **Hazard statements**
  - H222 Extremely flammable aerosol.
  - H280 Contains gas under pressure; may explode if heated.
  - H319 Causes serious eye irritation.
  - H361 Suspected of damaging fertility or the unborn child.
  - H373 May cause drowsiness or dizziness.
  - H373 May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P211 Do not spray on an open flame or other ignition source.
  - P251 Pressurized container: Do not pierce or burn, even after use.
  - P260 Do not breathe dust/fume/gas/mist/vapors/spray.
Trade name: 38403 Blenz In

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Environment protection department.
- Contact: Rita Joiner (rjoiner@semproducts.com)
- Date of preparation / last revision 03/14/2018 / 10

- Abbreviations and acronyms:
  RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  ICAO: International Civil Aviation Organisation
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ACGIH: American Conference of Governmental Industrial Hygienists
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  VOC: Volatile Organic Compounds (USA, EU)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  NIOSH: National Institute for Occupational Safety
  OSHA: Occupational Safety & Health
  TLV: Threshold Limit Value
  PEL: Permissible Exposure Limit
  REL: Recommended Exposure Limit
  BEI: Biological Exposure Limit
  Flam. Aerosol 1: Aerosols – Category 1
  Press. Gas: Gases under pressure – Compressed gas
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  Repr. 2: Reproductive toxicity – Category 2
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- * Data compared to the previous version altered.