1 Identification of substance:

- Product details:
  - Trade name: V 1 EXTRA
  - Manufacturer/Supplier:
    SEITZ GmbH
    Chemische Fabrik
    Gutenbergstr. 3
    D-65830 Kriftel
  - Information department:
    CHEM-TEL Inc.
    10770 North 46th Street STE. B100
    Temple Terrace
    Tampa Florida 33617
  - Emergency information: 1-800-255-3924

2 Composition/Data on components:

- Chemical characterization
  - Description:
    Mixture of the substances listed below with non-hazardous ingredients.

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Components</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>121-86-4</td>
<td>acetic acid n-butylester</td>
<td>20-40%</td>
</tr>
<tr>
<td>112-34-5</td>
<td>diethylene glycol monobutylether</td>
<td>10-30%</td>
</tr>
<tr>
<td>68411-30-3</td>
<td>linear alkylbenzenesulfonic acid salt</td>
<td>10-30%</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>mixture of aromatic hydrocarbon</td>
<td>&lt;10%</td>
</tr>
</tbody>
</table>

3 Hazards identification

- Hazard description:
  - Irritant liquid
  - Flammable liquid
- Information pertaining to particular dangers for man and environment
  - Flammable.
  - Irritating to eyes and skin.
- Classification system
  - The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- NFPA ratings (scale 0-4)
  - Health = 2
  - Fire = 3
  - Reactivity = 0

4 First aid measures

- General information
  - Immediately remove any clothing soiled by the product.
  - Remove casualties from exposure.
  - Keep unprotected persons away.
- After inhalation
  - Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
  - In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 2)
### Trade name: V 1 EXTRA

(Contd. of page 1)

- **After skin contact**
  Immediately rinse with water.
  If skin irritation continues, consult a doctor.
- **After eye contact**
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing**
  Rinse out mouth and then drink plenty of water.
  Do not induce vomiting; immediately call for medical help.
- **Information for doctor**
  In case of ingestion and subsequent vomiting aspiration by the lungs might result and lead to chemical pneumonia or suffocation.
  - The following symptoms may occur:
    - Headache
    - Dizziness
    - Nausea
    - Unconsciousness

### 5 Fire-fighting measures

- **Suitable extinguishing agents**
  - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents**
  - Water with full jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
  - In case of fire, the following can be released:
    - Carbon monoxide and carbon dioxide (CO, CO2)
    - Sulphur oxides (SOX)
  - In certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
  - Do not inhale explosion gases or combustion gases.
- **Additional information**
  - Cool endangered receptacles with water spray.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- **Person-related safety precautions:**
  - Wear protective equipment. Keep unprotected persons away.
  - Keep away from ignition sources
  - Ensure adequate ventilation
  - Avoid contact with eyes and skin.
- **Measures for environmental protection:**
  - Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose of the collected material according to regulations.

### 7 Handling and storage

- **Handling**
  - Information for safe handling:
    - Keep away from heat and direct sunlight.
    - Ensure good ventilation/exhaustion at the workplace.
    - Ensure good interior ventilation, especially at floor level. (Fumes are (Contd. on page 3)
heavier than air)
Avoid contact with eyes and skin.

- **Information about protection against explosions and fires:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Protect from direct sun exposure and temperatures over 40°C.
  - Formation of explosive vapour-air mixture possible.

- **Storage**
  - **Requirements to be met by storerooms and receptacles:**
    - Store only in the original receptacle.
    - Do not use light alloy receptacles.
  - **Information about storage in one common storage facility:**
    - Store away from foodstuffs.
    - Do not store together with alkalis (caustic solutions).
    - Do not store together with oxidizing and acidic materials.
  - **Further information about storage conditions:**
    - Keep receptacle tightly sealed.
    - Protect from frost.
    - Time of storage: max. 18 month
    - Avoid contact with air/oxygen (formation of peroxide).
    - Store in cool, dry conditions in well sealed receptacles.
  - **Class according to regulation on flammable liquids:** A II

8 Exposure controls and personal protection

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

**Components with limit values that require monitoring at the workplace:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Value/Range Unit Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-86-4 acetic acid n-butylester</td>
<td>unetermined</td>
</tr>
<tr>
<td>ACGIH TLV: Short-term value</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Long-term value: 150 ppm</td>
<td></td>
</tr>
<tr>
<td>NIOSH REL: Short-term value</td>
<td>350 mg/m³, 200 ppm</td>
</tr>
<tr>
<td>Long-term value: 710 mg/m³, 150 ppm</td>
<td></td>
</tr>
<tr>
<td>OSHA PEL: 710 mg/m³, 150 ppm</td>
<td></td>
</tr>
</tbody>
</table>

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

- **Personal protective equipment**
  - **General protective and hygienic measures:**
    - The usual precautionary measures for handling chemicals should be followed.
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing.
    - Do not eat, drink, smoke or sniff while working.
    - Wash hands before breaks and at the end of work.
    - Do not inhale gases/fumes/aerosols.
    - Avoid contact with the eyes and skin.
  - **Breathing equipment:** Not necessary if room is well-ventilated.
  - **Protection of hands:** Solvent resistant gloves
  - **Eye protection:** Safety glasses
  - **Body protection:** Protective work clothing.

9 Physical and chemical properties:

- **Form:** Fluid
- **Color:** Yellowish
- **Odor:** Characteristic
- **Change in condition**
  - Melting point/Melting range: undetermined

(Contd. on page 4)
Trade name: V 1 EXTRA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point/Boiling range:</td>
<td>undetermined</td>
</tr>
<tr>
<td>Flash point:</td>
<td>89.6°F 32 °C ASTM D 93c.c</td>
</tr>
<tr>
<td>Auto igniting:</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>Product is not explosive. However, formation of explosive air/vapor mixtures is possible.</td>
</tr>
<tr>
<td>Density:</td>
<td>at 20 °C 0.96 - 0.97 g/cm³ ISO 2811</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water:</td>
<td>Not miscible or difficult to mix</td>
</tr>
<tr>
<td>pH-value:</td>
<td>(100 g/l) at 20 °C 6-8</td>
</tr>
</tbody>
</table>

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions: Forms explosive gas mixture with air. Reacts with acids, alkalis and oxidizing agents. Reacts with alkaline metals.
- Dangerous products of decomposition: Flammable gases/vapors.

11 Toxicological information

- Acute toxicity: LD/Lc50 values that are relevant for classification:
  - 64742-95-6 mixture of aromatic hydrocarbon
    - Oral: LD50: >2000 mg/kg
    - Dermal: LD50: >2000 mg/kg
  - 123-86-4 acetic acid n-butylester
    - Oral: LD50: > 4700 mg/kg (rat)
    - Dermal: LD50: > 5000 mg/kg (rabbit)
    - Inhalative: LC50/4 h: >21.0 mg/l (rat)
  - 112-34-5 diethylene glycol monobutylether
    - Oral: LD50: 6560 mg/kg (rat)
    - Dermal: LD50: 4120 mg/kg (rabbit)
  - 68411-30-3 linear alkylbenzenesulfonic acid salt
    - Oral: LD50: 2550 mg/kg (rat)
    - Primary irritant effect: on the skin: Irritant to skin and mucous membranes. 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.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
Trade name: V 1 EXTRA

12 Ecological information:

- General notes:
  Water hazard class 2 (Self-assessment): hazardous for water.
  Do not allow product to reach ground water, water course or sewage system.
  At present there are no ecotoxicological assessments.

13 Waste Disposal Method

- Product and uncleaned packagings:
  Recommendation:
  After prior treatment product has to be landfilled or incinerated adhering to the regulations pertaining to the disposal of especially hazardous waste.

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

14 Transport information

- DOT regulations:
  - Hazard class: 3
  - Identification number: 31c
  - Packing group: III

- Land transport ADR/RID (cross-border)
  - ADR/RID class: 3 Flammable liquids
  - Item: 31c
  - UN-Number: 1993

- Maritime transport IMDG:
  - IMDG Class: 3.3
  - UN Number: 1993
  - Packaging group: III

- Air transport ICAO-TI and IATA-DGR:
  - ICAO/IATA Class: 3
  - UN/ID Number: 1993
  - Packaging group: III

15 Regulatory information (Not meant to be all-inclusive/selected regulations represented)

- Product related hazard informations:
  The product has been marked in accordance with national laws. Observe the general safety regulations when handling chemicals.

- Hazard symbols:
  - Irritant
  - Flammable

- Risk phrases:
  - Flammable.
  - Irritating to eyes and skin.

(Contd. on page 6)
**Safety phrases:**
Keep out of the reach of children.
When using do not eat or drink.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Take off immediately all contaminated clothing.
After contact with skin, wash immediately with plenty of water.
Wear suitable gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately.
If swallowed, seek medical advice immediately and show this container or label.

**National regulations**

**Water hazard class:**
Water hazard class 2 (Self-assessment): hazardous for water.

**Other regulations, limitations and prohibitive regulations**
The product has been designed for professional use only.

**Please note:**
The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that their activities comply with Federal, State or provincial and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations.

**U.S. Regulations**

**SARA 313 Information:**
This product contains the following substances are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SARA Hazard Category:**
This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

**Toxic Substances Control Act (TSCA):**
All ingredients are listed on the TSCA inventory.

**California proposition 65:**
The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986.

**Chemicals known to cause cancer:**

**Chemicals known to cause reproductive toxicity:**

**State right-to-know**
The following product component(s) is/are cited on certain State lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical name</th>
<th>LIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-86-4</td>
<td>acetic acid n-butylester</td>
<td>NY/PA-E</td>
</tr>
</tbody>
</table>

**OSHA hazard communication standard:**
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or Superfund):
This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:
- CAS-No.: Chemical name: 123-86-4 acetic acid n-butylester

Canadian regulations

WHMIS information:
The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:
- B2 - Flammable liquid
- D2B - Eye and/or skin irritant

Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

CPR statement:
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Hazardous products act information:
This product contains the following ingredient(s) which are Controlled Products and/or on the Ingredients Disclosure List (Canadian HPA section 13 and 14):
- CAS-No.: Components:
  123-86-4 acetic acid n-butylester
  112-34-5 diethylene glycol monobutylether
  68411-30-3 linear alkylbenzenesulfonic acid salt

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.

Contact: R. Döring