1 Identification

- Product identifier
- Trade name: LVT Scratch Repair Spray
- Relevant identified uses of the substance or mixture and uses advised against
  SU21 Consumer uses: Private households / general public / consumers
- Sector of Use
  SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Application of the substance / the mixture Lacquer
- Details of the supplier of the safety data sheet
  Manufacturer/Supplier:
  Supplier:
  CC-Dr. Schutz GmbH
  Holbeinstraße 17
  D-53175 Bonn
  Tel: +49 228/95 35 2-0
  Fax: +49 228/95 35 2-46
  E-Mail: export@dr-schutz.com
  Import:
  Dr. Schutz NA
  4701 Bath St. 46
  Philadelphia PA 19137
  Tel.: 001/877 2724889
  E-Mail: sam@schutzna.com
  Information department:
  Department for product development
  E-Mail: sam@schutzna.com
  Emergency telephone number:
  GBK Gefahrgut Büro GmbH
  telephone: +49 (0)6132 84463
  (24-Hour-Number)

2 Hazard(s) identification

- Classification of the substance or mixture
  GHS02 Flame
  GHS07
  Eye Irrit. 2A H319 Causes serious eye irritation.

- Label elements
  GHS label elements
  The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms
  GHS02 GHS07

- Signal word Warning
- Hazard statements
  Flammable aerosol. Pressurized container: May burst if heated.
  Causes serious eye irritation.
- Precautionary statements
  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Wear eye protection / face protection. Wash thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**NFPA ratings (scale 0 - 4)**

- Health = 1
- Fire = 4
- Reactivity = 3

**HMIS-ratings (scale 0 - 4)**

- Health = 1
- Fire = 4
- Reactivity = 3

**Other hazards**

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

### 3 Composition/information on ingredients

**Chemical characterization:** Mixture

**Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>115-10-6 dimethyl ether</td>
<td>25-50%</td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>10-25%</td>
</tr>
<tr>
<td>64-17-5 ethanol</td>
<td>10-25%</td>
</tr>
<tr>
<td>1336-21-6 ammonia</td>
<td>0.1-1%</td>
</tr>
</tbody>
</table>

### 4 First-aid measures

**Description of first aid measures**

**General information:**

Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Generally the product does not irritate the skin. Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. Then 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:**

- 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.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
  - Protective equipment: Mouth respiratory protective device.
  - 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

- Personal precautions, protective equipment and emergency procedures
  - Do not inhale gases / fumes / aerosols.
  - Keep away from ignition sources
  - Ensure adequate ventilation
  - Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
  - Do not allow to enter sewers/ surface or ground water.
  - Inform respective authorities in case of seepage into water course or sewage system.
- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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.

7 Handling and storage

- Handling:
  - Precautions for safe handling
    - Keep away from heat and direct sunlight.
    - Ensure good ventilation/exhaustion at the workplace.
    - Open and handle receptacle with care.
  - Information about protection against explosions and fires:
    - Do not spray on a naked flame or any incandescent material.
    - Fumes can combine with air to form an explosive mixture.
    - Keep ignition sources away - Do not smoke.
    - Protect against electrostatic charges.
    - 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:
    - Store in a cool location.
    - 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.
    - Store in cool, dry conditions in well sealed receptacles.
    - Protect from heat and direct sunlight.
    - Store receptacle in a well ventilated area.
Trade name: **LVT Scratch Repair Spray**

- **Specific end use(s)**: No further relevant information available.

### 8 Exposure controls/personal protection

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

- **Control parameters**

<table>
<thead>
<tr>
<th>Component</th>
<th>Control Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>115-10-6 dimethyl ether</td>
<td></td>
</tr>
<tr>
<td>WEEL</td>
<td>Long-term value: 1000 ppm</td>
</tr>
<tr>
<td>PEL</td>
<td>Long-term value: 980 mg/m³, 400 ppm</td>
</tr>
<tr>
<td>REL</td>
<td>Short-term value: 1225 mg/m³, 500 ppm</td>
</tr>
<tr>
<td>TLV</td>
<td>Short-term value: 984 mg/m³, 400 ppm</td>
</tr>
<tr>
<td>BEI</td>
<td>Long-term value: 492 mg/m³, 200 ppm</td>
</tr>
</tbody>
</table>

| 67-63-0 propan-2-ol |  |
| PEL | Long-term value: 980 mg/m³, 400 ppm |
| REL | Short-term value: 1225 mg/m³, 500 ppm |
| TLV | Short-term value: 984 mg/m³, 400 ppm |
| BEI | Long-term value: 492 mg/m³, 200 ppm |

| 64-17-5 ethanol |  |
| PEL | Long-term value: 1900 mg/m³, 1000 ppm |
| REL | Long-term value: 1900 mg/m³, 1000 ppm |
| TLV | Short-term value: 1880 mg/m³, 1000 ppm |

- **Ingredients with biological limit values**:

<table>
<thead>
<tr>
<th>Component</th>
<th>Biological Limit Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0 propan-2-ol</td>
<td></td>
</tr>
<tr>
<td>BEI</td>
<td>40 mg/L</td>
</tr>
<tr>
<td>Medium: urine</td>
<td></td>
</tr>
<tr>
<td>Time: end of shift at end of workweek</td>
<td></td>
</tr>
<tr>
<td>Parameter: Acetone (background, nonspecific)</td>
<td></td>
</tr>
</tbody>
</table>

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

- **Exposure controls**

- **Personal protective equipment**:

- **General protective and hygienic measures**:
  - Wash hands before breaks and at the end of work.
  - Do not inhale gases / fumes / aerosols.

- **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.
  - Use suitable respiratory protective device in case of insufficient ventilation.
  - Short term filter device: Filter AX

- **Protection of hands**:
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
  - Nitrile rubber, NBR
  - Recommended thickness of the material: ≥ 0.4 mm
  - 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.
41.0

· Eye protection:

Tightly sealed goggles

Where there is a danger of the eyes coming into contact with splashes of liquid (i.e. when refilling larger quantities), safety goggles according to EN 166 (i.e. goggles with side shields) are recommended.

· Body protection: Light weight protective clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
  - Appearance:
    - Form: Fluid
    - Color: Not determined.
    - Odor: Characteristic
    - Odor threshold: Not determined.
  - pH-value: Not determined.
  - Change in condition
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: < 35 °C (< 95 °F)
  - Flash point: -42 °C (-44 °F) (Seta Flash Closed Cup)
  - Flammability (solid, gaseous): Not applicable.
  - Ignition temperature: 235 °C (455 °F)
  - Decomposition temperature: Not determined.
  - Auto igniting: Product is not selfigniting.
  - Danger of explosion: Not determined.
  - Explosion limits:
    - Lower: 2.0 Vol %
    - Upper: 18.6 Vol %
  - Vapor pressure at 20 °C (68 °F): 5200 hPa (3900 mm Hg)
  - Density at 20 °C (68 °F): 0.77 g/cm³ (6.426 lbs/gal)
  - Relative density: Not determined.
  - Vapour density: Not determined.
  - Evaporation rate: Not applicable.
  - Solubility in / Miscibility with
    - Water: Fully miscible.
  - Partition coefficient (n-octanol/water): Not determined.
  - Viscosity:
    - Dynamic: Not determined.
    - Kinematic at 20 °C (68 °F): 12 s (DIN 53211/4)
  - Solvent content:
    - Organic solvents: 75 %
    - VOC content ASTM D3960: 81.5 %
10 Stability and reactivity

- Reactivity: see section "Possibility of hazardous reactions".
- Chemical stability: No information available.
- 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:
    
    | Substance          | LD50/DL50 (mg/kg/4h) |
    |--------------------|----------------------|
    | 67-63-0 propan-2-ol| 4750/13400 (rat)     |
    | 64-17-5 ethanol    | 30                   |

- Primary irritant effect:
  - on the skin: No data available.
  - on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    | Substance          | Carcinogenicity |
    |--------------------|-----------------|
    | 67-63-0 propan-2-ol| 3               |
    | 64-17-5 ethanol    | 1               |

- 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:
    | Substance          | LC50/96h (mg/l) |
    |--------------------|-----------------|
    | 67-63-0 propan-2-ol| 10000           |

- 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.

(Contd. on page 7)
Trade name: *LVT Scratch Repair Spray*

- **Additional 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.
  Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.
- **Other adverse effects** No further relevant information available.

### 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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 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**
      - DOT, ADR, IMDG, IATA Void
      - DOT 2.1
      - ADR 2.1
      - IMDG 2.1
      - IATA 2.1

(Contd. on page 8)
# Safety Data Sheet

**Trade name:** LVT Scratch Repair Spray

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Sara**
    - **Section 355 (extremely hazardous substances):**
      - None of the ingredients is listed.
    - **Section 313 (Specific toxic chemical listings):**
      - 67-63-0 propan-2-ol
      - 1336-21-6 ammonia
    - **TSCA (Toxic Substances Control Act):**
      - All ingredients are listed.
    - **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:**
        - 64-17-5 ethanol
    - **Cancerogenity categories**
      - **EPA (Environmental Protection Agency)**
        - None of the ingredients is listed.
    - **TLV (Threshold Limit Value established by ACGIH)**
      - 67-63-0 propan-2-ol A4
      - 64-17-5 ethanol A3
Trade name: LVT Scratch Repair Spray

| 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 GHS07 |
| Signal word | Warning |
| Hazard statements | Flammable aerosol. Pressurized container: May burst if heated. |
| | Causes serious eye irritation. |
| Precautionary statements | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| | Pressurized container: Do not pierce or burn, even after use. |
| | Do not spray on an open flame or other ignition source. |
| | Wear eye protection / face protection. |
| | Wash thoroughly after handling. |
| | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | If eye irritation persists: Get medical advice/attention. |
| | Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |
| Chemical safety assessment: | A Chemical Safety Assessment has not been carried out. |

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: Department for product development
- Contact: Dr. Reindl
- Date of preparation / last revision 08/31/2015 / 2
- Abbreviations and acronyms:
  - 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
  - Flam. Aerosol 2: Flammable aerosols, Hazard Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

- * Data compared to the previous version altered.