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

1.1 Product identifier
- Trade name: K-FLEX 720 LVOC Contact Adhesive

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture: Adhesives

1.3 Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier: K-FLEX USA
  100 Nomaco Drive
  Youngsville, NC 27596
  Phone: 800-765-6475

1.4 Emergency telephone number:
- ChemTel Inc.
  (800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

- Flame
  Flammable liquid and vapour.

- Eye irritation
  Causes serious eye irritation.

- STOT SE 3
  May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

- Xi: Irritant
  Irritating to eyes.

- F: Highly flammable
  Highly flammable.

- R11: Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

(Contd. on page 2)
## 2.2 Label elements

- **Hazard pictograms**

  GHS02 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  acetone

- **Hazard statements**
  - H225 Highly flammable liquid and vapour.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.

- **Precautionary statements**
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P261 Avoid breathing mist/vapours/spray.
  - P280 Wear protective gloves / eye protection.
  - P264 Wash thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P312 Call a POISON CENTER/doctor if you feel unwell.
  - P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
  - P403+P235 Store in a well-ventilated place. Keep cool.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard description:**
- **WHMIS-symbols:**
  B2 - Flammable liquid
D2B - Toxic material causing other toxic effects

- NFPA ratings (scale 0 - 4)
  - Health = 1
  - Fire = 3
  - Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  - Health = 1
  - Fire = 3
  - Reactivity = 0

HMIS Long Term Health Hazard Substances
None of the ingredients are listed.

- 2.3 Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients**

- 3.2 Mixtures
  - Description: Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 67-64-1</td>
<td>acetone</td>
</tr>
<tr>
<td>EINECS: 200-662-2</td>
<td>Xi R36; F R11</td>
</tr>
<tr>
<td>Index number: 606-001-00-8</td>
<td>R66-67</td>
</tr>
<tr>
<td>CAS: 14807-96-6</td>
<td>Talc</td>
</tr>
<tr>
<td>EINECS: 238-877-9</td>
<td>substance with a Community workplace exposure limit</td>
</tr>
<tr>
<td>50-100%</td>
<td>≤ 2,5%</td>
</tr>
</tbody>
</table>

- Additional information:
  - For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.
  - For the wording of the listed risk phrases refer to section 16.

**SECTION 4: First aid measures**

- 4.1 Description of first aid measures
  - General information:
    - Immediately remove any clothing soiled by the product.
    - Take affected persons out into the fresh air.
Trade name: K-FLEX 720 LVOC Contact Adhesive

· After inhalation:
  Respiration of particulates is unlikely during normal usage.
  Supply fresh air; consult doctor in case of complaints.
· After skin contact:
  Immediately wash with water and soap and rinse thoroughly.
  Do not pull solidified product off the skin.
  If skin irritation continues, consult a doctor.
· After eye contact:
  Remove contact lenses if worn.
  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; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
  Headache
  Dizziness
  Coughing
  Irritant to eyes.
· Hazards
  Vapours may cause drowsiness and dizziness.

4.3 Indication of any immediate medical attention and special treatment needed
  Medical supervision for at least 48 hours.
  If necessary oxygen respiration treatment.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
  Suitable extinguishing agents:
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  For safety reasons unsuitable extinguishing agents: Water with full jet
· 5.2 Special hazards arising from the substance or mixture
  Formation of toxic gases is possible during heating or in case of fire.
· 5.3 Advice for firefighters
  Protective equipment:
  Wear self-contained respiratory protective device.
  Wear fully protective suit.
  Additional information
  Eliminate all ignition sources if safe to do so.
  Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures
  Use respiratory protective device against the effects of fumes/dust/aerosol.
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation
  Keep away from ignition sources.
Trade name: K-FLEX 720 LVOC Contact Adhesive

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Prevent formation of aerosols.
Avoid splashes or spray in enclosed areas.
Use only in well ventilated areas.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work.

Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Highly flammable liquid and vapour.
Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Provide ventilation for receptacles.
Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from oxidising agents.

Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.
**8.1 Control parameters**

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>IOELV (EU)</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>Long-term value: 1210 mg/m³, 500 ppm</td>
<td>Long-term value: 2400 mg/m³, 1000 ppm</td>
<td>Long-term value: 590 mg/m³, 250 ppm</td>
<td>Short-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm</td>
<td>Short-term value: 500 ppm</td>
<td>Short-term value: 750 ppm</td>
</tr>
<tr>
<td>Long-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Long-term value: 250 ppm</td>
<td></td>
</tr>
<tr>
<td>14807-96-6 Talc</td>
<td></td>
<td>Long-term value: 20 mppcf ppm (containing &lt;1% Quartz)</td>
<td>Long-term value: 2* mg/m³</td>
<td>Long-term value: 2 mg/m³</td>
<td>Short-term value: 500 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>*respirable dust</td>
<td>*as respirable fraction; E</td>
<td>respirable</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Long-term value: 500 ppm</td>
<td></td>
</tr>
</tbody>
</table>

**DNELs** No further relevant information available.

**PNECs** No further relevant information available.

**Ingredients with biological limit values:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>BEI (USA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>50 mg/L</td>
</tr>
<tr>
<td>Medium: urine</td>
<td></td>
</tr>
<tr>
<td>Time: end of shift</td>
<td></td>
</tr>
<tr>
<td>Parameter: Acetone (nonspecific)</td>
<td></td>
</tr>
</tbody>
</table>

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.

**Respiratory protection:**
Not required under normal conditions of use.
Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection may be advisable.

**Protection of hands:**

- Protective gloves

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**  
Rubber 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

- Safety glasses

**Body protection:** Protective work clothing

**Limitation and supervision of exposure into the environment**  
No further relevant information available.

---

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

- **Appearance:**
  - Form: Liquid
  - Colour: Dark
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.

**Change in condition**

- **Melting point/Melting range:** Not Determined.
- **Boiling point/Boiling range:** 55 °C (131 °F) (estimated)
- **Flash point:** -17 °C (1 °F) (estimated)
- **Flammability (solid, gaseous):** Not applicable.
- **Auto/Self-ignition temperature:** Not determined.
9.2 Other information
No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
10.2 Chemical stability
10.3 Possibility of hazardous reactions
Flammable.
Reacts with oxidising agents.
Used empty containers may contain product gases which form explosive mixtures with air.
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
10.4 Conditions to avoid
Keep ignition sources away - Do not smoke.
Store away from oxidising agents.
10.5 Incompatible materials: No further relevant information available.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

- LD/LC50 values relevant for classification:
  - 67-64-1 acetone
    - Oral LD50: 5800 mg/kg (rat)
    - Dermal LD50: 20000 mg/kg (rabbit)

Primary irritant effect:
- on the skin: Slight irritant effect on skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitisation: No sensitising effects known.
- Subacute to chronic toxicity: No further relevant information available.
- Additional toxicological information:
  The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  - Irritant
  - Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
  - Acute effects (acute toxicity, irritation and corrosivity):
    - Vapours have narcotic effect.
    - Irritating to eyes.
  - Repeated dose toxicity: No further relevant information available.
  - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): See Section 15.

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Ecotoxicological effects:

- Remark: Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

Additional ecological information:

- General notes:
  - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
  - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN-Number
DOT, ADR, IMDG, IATA
UN1090

14.2 UN proper shipping name

Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1 L (0.3 gal).

14.3 Transport hazard class(es)

DOT

Class
3 Flammable liquids.

Label
3

ADR

Class
3 (F1) Flammable liquids.

Label
3

(Contd. on page 11)
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

United States (USA)

SARA

- Section 355 (extremely hazardous substances):
  None of the ingredients are listed.

- Section 313 (Specific toxic chemical listings):
  None of the ingredients are listed.

- TSCA (Toxic Substances Control Act):
  All ingredients are listed.
Proposition 65 (California):

- Chemicals known to cause cancer:
  - 14807-96-6 Talc
  - 100-40-3 4-vinylcyclohexene
  - 107-13-1 acrylonitrile
  - 106-99-0 1,3-butadiene buta-1,3-diene

- Chemicals known to cause reproductive toxicity for females:
  - 100-40-3 4-vinylcyclohexene
  - 106-99-0 1,3-butadiene buta-1,3-diene

- Chemicals known to cause reproductive toxicity for males:
  - 106-99-0 1,3-butadiene buta-1,3-diene

- Chemicals known to cause developmental toxicity:
  - 106-99-0 1,3-butadiene buta-1,3-diene

Carcinogenic Categories

- EPA (Environmental Protection Agency)
  - 67-64-1 acetone

- IARC (International Agency for Research on Cancer)
  - 14807-96-6 Talc

- TLV (Threshold Limit Value established by ACGIH)
  - 67-64-1 acetone
  - 14807-96-6 Talc

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

Canada

- Canadian Domestic Substances List (DSL)
  - All ingredients are listed.

- Canadian ingredient Disclosure list (limit 0.1%)
  - None of the ingredients are listed.

- Canadian ingredient Disclosure list (limit 1%)
  - 67-64-1 acetone

Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
SECTION 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.

- Relevant phrases
  H225 Highly flammable liquid and vapour.
  H319 Causes serious eye irritation.
  H336 May cause drowsiness or dizziness.
  R11 Highly flammable.
  R36 Irritating to eyes.
  R66 Repeated exposure may cause skin dryness or cracking.
  R67 Vapours may cause drowsiness and dizziness.

- 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
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  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)
  WHMIS: Workplace Hazardous Materials Information System (Canada)
  VOC: Volatile Organic Compounds (USA, EU)
  DNEL: Derived No-Effect Level (REACH)
  PNEC: Predicted No-Effect Concentration (REACH)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  Flam. Liq. 2: Flammable liquids, Hazard Category 2
  Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
  STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Sources
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