Safety Data Sheet  
acc. to OSHA HCS  

Printing date 05/01/2020  
Version 4.0  

1 Identification  

· Product name: Loc-tite 460 Adhesive  
· Part number: 71-40045  
· Application of the substance / the mixture  
  Adhesives  
· Details of the supplier of the safety data sheet  
· Manufacturer/Supplier:  
  Allied High Tech Products Inc.  
  2376 East Pacifica Place  
  USA-RANCHO DOMINGUEZ, CA 90220  
  USA  
  info@alliedhiightech.com  
· Information department: Product safety department  
· Emergency telephone number:  
  During normal opening times: +1 (310) 635-2466  
  Chemtrec: +1 (202) 483-7616  

2 Hazard(s) Identification  

· Classification of the substance or mixture  
  Flam. Liq. 4  H227  Combustible liquid.  
  Eye Irrit. 2B  H320  Causes eye irritation.  

· Label elements  
  · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).  
  · Hazard pictograms Void  
  · Signal word Warning  
  · Hazard statements  
    Combustible liquid.  
    Causes eye irritation.  
· Precautionary statements  
  Keep away from flames and hot surfaces. – No smoking.  
  Wash thoroughly after handling.  
  Wear protective gloves/protective clothing/eye protection/face protection.  
  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.  
  In case of fire: Use for extinction: CO2, powder or water spray.  
  Store in a well-ventilated place. Keep cool.  
  Dispose of contents/container in accordance with local/regional/national/international regulations.  
· Classification system:  
  · NFPA ratings (scale 0 - 4)  
    Health = 1  
    Fire = 2  
    Reactivity = 0  

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Product name: Loc-tite 460 Adhesive

· HMIS-ratings (scale 0 - 4)
  HEALTH 1 Health = 1
  FIRE 2 Fire = 2
  REACTIVITY 0 Reactivity = 0

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

3 Composition/information on ingredients

· Chemical characterization: Mixtures
· Description: Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Hazardous Components:</th>
<th>50-100%</th>
</tr>
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<tbody>
<tr>
<td>27816-23-5 Methoxyethyl cyanoacrylate</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-hazardous Components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickener</td>
</tr>
<tr>
<td>Thermal additive</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.
    If skin is bonded, immediately wash with water and soap and rinse thoroughly.
  · After eye contact:
    If eyelids are bonded, immediately wash with warm water. Do not force eye open. Eye proteins will help to debond the adhesive. Keep eye covered until the debonding is complete, usually within 1-3 days.
    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
    Allergic reactions
    Breathing difficulty
    Thermal burns
  · 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.
  Prevent seepage into sewage system, workpits and cellars.
· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
Product name: Loc-tite 460 Adhesive

- 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:
  None of the ingredients is listed.

- PAC-2:
  None of the ingredients is listed.

- PAC-3:
  None of the ingredients is listed.

7 Handling and storage

- Handling:
- Precautions for safe handling: No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Conditions for safe storage, including any incompatibilities
- Storage:
  Requirements to be met by storerooms and receptacles:
  Store in a cool refrigerated location.
  Store at temperatures not exceeding 2°C.
  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.

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>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>27816-23-5 Methoxyethyl cyanoacrylate</td>
<td>TWA: Long-term value: 1.27 mg/m³</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:
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing.
  Wash hands before breaks and at the end of work.
  Avoid contact with the eyes.
  Avoid contact with the eyes and skin.
  Breathing equipment:
  Not required.
  Use suitable respiratory protective device in case of insufficient ventilation.
- 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: Nitrile rubber, NBR

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### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Liquid
  - Color: Clear
- **Odor:** Nearly odorless
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 149 °C (300.2 °F)
- **Flash point:** 80 °C (176 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 485 °C (905 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Not determined.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapor pressure at 20 °C (68 °F):** 0.3 hPa (0.2 mm Hg)
- **Density:** Not determined.
- **Relative density**
- **Vapor density**
- **Specific gravity:** 1.1
- **Evaporation rate**
- **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:**
  - VOC content: 0.00 %
  - 0.0 g/l / 0.00 lb/gal
- **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**
  Reacts with water.
  Danger of polymerization.
- **Conditions to avoid**
  Water
  Alcohol
  Do not mix with alkalis.
- **Incompatible materials**: No further relevant information available.
- **Hazardous decomposition products**: No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**:
- **Primary chemical irritant effect**:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
- **Sensitization**: No sensitizing effects known.
- **Additional toxicological information**:

- **Carcinogenic categories**

  - **IARC (International Agency for Research on Cancer)**
    None of the ingredients is listed.

  - **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**:
  Water hazard class 1 (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.

- **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**: Contact waste processors for recycling information.
Product name: Loc-tite 460 Adhesive

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

### 14 Transport information

- UN-Number
  - DOT, ADN, IMDG, IATA: not regulated

- UN proper shipping name
  - DOT, ADN, IMDG, IATA: not regulated

- Transport hazard class(es)
  - DOT, ADN, IMDG, IATA
  - Class: not regulated

- Packing group
  - DOT, IMDG, IATA: not regulated

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - Not applicable.

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - Not applicable.

- UN "Model Regulation": not regulated

### 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):
    - None of the ingredients is listed.

  - TSCA (Toxic Substances Control Act):
    - All components have the value ACTIVE.

- Hazardous Air Pollutants
  - None of the ingredients is 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:
    - None of the ingredients is listed.

- Carcinogenic categories

  - EPA (Environmental Protection Agency)
    - None of the ingredients is listed.
Product name: Loc-tite 460 Adhesive

- TLV (Threshold Limit Value established by ACGIH)
  None of the ingredients is listed.

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

- 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: Environment protection department.
- Contact: Kim Dermit
- Last revision: 05/01/2020 / 3.9
- Abbreviations and acronyms:
  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)
  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
  Flam. Liq. 4: Flammable liquids – Category 4
  Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B