1 Identification

· Product name: Maxi-Cut, Oil-Based Cutting Fluid (Undiluted)
· Part number: 80-10140, 80-10145
· Application of the substance / the mixture: Lubricant
· 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
  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
  GHS07

· Signal word: Warning
· Hazard statements
  Causes serious eye irritation.
· Precautionary statements
  Wash thoroughly after handling.
  Wear 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.

(Contd. on page 2)
Product name: Maxi-Cut, Oil-Based Cutting Fluid (Undiluted)

· Classification system:
  · NFPA ratings (scale 0 - 4)
    Health = 2  Fire = 1  Reactivity = 0

· HMIS-ratings (scale 0 - 4)
  Health = 2  Fire = 1  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></th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-52-5</td>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
</tr>
<tr>
<td>770-35-4</td>
<td>1-Phenoxypropan-2-ol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-hazardous Components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Ingredient</td>
<td>25-50%</td>
</tr>
<tr>
<td>68608-26-4</td>
<td>Sodium petroleum sulfonate</td>
</tr>
<tr>
<td>123304-09-8</td>
<td>Ether carboxylate</td>
</tr>
<tr>
<td>68956-41-2</td>
<td>Emulsifiers, based on fatty acids with alkanolamines</td>
</tr>
</tbody>
</table>

· Additional information: The specific chemical identity and/or exact percentage of the composition has been withheld as a trade secret.

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: Use fire fighting measures that suit the environment.

· 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: Not required.

· Environmental precautions:
  · Do not allow product to reach sewage system or any water course.
  · Do not allow to enter sewers/ surface or ground water.
  · Dilute with plenty of water.
Safety Data Sheet
acc. to OSHA HCS

Product name: Maxi-Cut, Oil-Based Cutting Fluid (Undiluted)

- 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.

- Protective Action Criteria for Chemicals

<table>
<thead>
<tr>
<th>PAC</th>
<th>Number</th>
<th>Substance Description</th>
<th>Criterion</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAC-1</td>
<td>64742-52-5</td>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>140 mg/m³</td>
</tr>
<tr>
<td>PAC-2</td>
<td>64742-52-5</td>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>1,500 mg/m³</td>
</tr>
<tr>
<td>PAC-3</td>
<td>64742-52-5</td>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>8,900 mg/m³</td>
</tr>
</tbody>
</table>

7 Handling and storage

- Handling:
  - Precautions for safe handling: No special precautions are necessary if used correctly.
  - Information about protection against explosions and fires: No special measures required.

- Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
    - Information about storage in one common storage facility: Store away from oxidizing agents.
    - Further information about storage conditions:
      Protect from frost.
      Storage temperature between -40 °C and 40 °C
      Duration of storage: In closed, original container, at least 24 months
      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
  - Components with limit values that require monitoring at the workplace:
    The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
    At this time, the remaining constituent has no known exposure limits.

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL Long-term value: 5 mg/m³</th>
<th>TLV Long-term value: 5 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-52-5</td>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</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:
      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
Recommended thickness of the material: ≥ 0.3 mm

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:

Tightly sealed goggles

### 9 Physical and chemical properties

| General Information
| Form: Liquid
| Color: Light brown
| Odor: Almonds
| Odor threshold: Not determined
| pH-value at 20 °C (68 °F): 8.5-9.2 (at 5% in water)
| Change in condition
| Melting point/Melting range: Undetermined.
| Boiling point/Boiling range: 300 °C (572 °F)
| Flash point: 151 °C (303.8 °F)
| Flammability (solid, gaseous): Not applicable.
| Decomposition temperature: Not determined.
| Auto igniting: Product is not selfigniting.
| Danger of explosion: Product does not present an explosion hazard.
| Explosion limits:
| Lower: Not determined.
| Upper: Not determined.
| Vapor pressure: Not determined.
| Density at 20 °C (68 °F): 0.98 g/cm³ (8.1781 lbs/gal)
| Relative density: Not determined.
| Vapor density: Not determined.
| Evaporation rate: Not determined.
| Solubility in / Miscibility with Water: Emulsifiable.
| Partition coefficient (n-octanol/water): Not determined.
| Viscosity:
| Dynamic: Not determined.

(Contd. on page 5)
Product name: Maxi-Cut, Oil-Based Cutting Fluid (Undiluted)

<table>
<thead>
<tr>
<th>Kinematic at 40 °C (104 °F):</th>
<th>68 mm²/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Solvent content:</td>
<td></td>
</tr>
<tr>
<td>VOC content:</td>
<td>0.00 %</td>
</tr>
<tr>
<td>23.8 g/l / 0.20 lb/gal</td>
<td></td>
</tr>
<tr>
<td>· Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

## 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: Keep away from oxidising agents and acidic substances.
· Incompatible materials: No further relevant information available.
· Hazardous decomposition products:
  - Chlorine compounds
  - Sulfur oxides (SOx)
  - Nitrogen oxides (NOx)
  - Carbon monoxide and carbon dioxide
· Additional information: Hazardous decomposition products may form during combustion.

## 11 Toxicological information

· Information on toxicological effects
· Acute toxicity:
  
<table>
<thead>
<tr>
<th>LD/LC50 values that are relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
</tbody>
</table>

64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic

| Oral  | LD50 | 5,010 mg/kg (rat) |
| Dermal | LD50 | 5,010 mg/kg (rat) |

· 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.
Product name: Maxi-Cut, Oil-Based Cutting Fluid (Undiluted)

- 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.
- 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: not regulated
- Class
  - DOT, IMDG, IATA: 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
      - None of the ingredients is listed.
    - Chemicals known to cause cancer:
      None of the ingredients is listed.

(Contd. on page 7)
Product name: Maxi-Cut, Oil-Based Cutting Fluid (Undiluted)

- 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.

  - 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: 04/28/2020 / 1.0
- 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)
  - 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
  - Flam. Liq. 3: Flammable liquids – Category 3
  - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A