1 Identification

- **Product name:** Acrylic Tinting Concentrate
- **Part number:** 170-21000, 170-21005, 170-21010, 170-21015
- **Application of the substance / the mixture**
  - Tinting concentrate
  - Additive
- **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@alliedhightech.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**
  - GHS02 Flame
    - Flam. Liq. 2  H225  Highly flammable liquid and vapor.
  - GHS08 Health hazard
    - Carc. 2  H351  Suspected of causing cancer.
    - STOT RE 2  H373  May cause damage to the kidneys and the liver through prolonged or repeated exposure.
  - GHS07
    - Acute Tox. 4  H332  Harmful if inhaled.
    - Skin Irrit. 2  H315  Causes skin irritation.
    - Skin Sens. 1  H317  May cause an allergic skin reaction.
    - STOT SE 3  H335  May cause respiratory irritation.

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

(Contd. on page 2)
Product name: Acrylic Tinting Concentrate

· **Hazard pictograms**

![Hazard pictograms](image)

GH02  GH07  GH08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
  methyl methacrylate
  N,N-dimethyl-p-toluidine

· **Hazard statements**
  Highly flammable liquid and vapor.
  Harmful if inhaled.
  Causes skin irritation.
  May cause an allergic skin reaction.
  Suspected of causing cancer.
  May cause respiratory irritation.
  May cause damage to the kidneys and the liver through prolonged or repeated exposure.

· **Precautionary statements**
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  Ground/bond container and receiving equipment.
  Use explosion-proof electrical/ventilating/lighting/equipment.
  Use only non-sparking tools.
  Take precautionary measures against static discharge.
  Do not breathe dust/fume/gas/mist/vapors/spray.
  Wash thoroughly after handling.
  Use only outdoors or in a well-ventilated area.
  Contaminated work clothing must not be allowed out of the workplace.
  Wear protective gloves / face protection.
  If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  IF exposed or concerned: Get medical advice/attention.
  Call a poison center/doctor if you feel unwell.
  Specific treatment (see on this label).
  Get medical advice/attention if you feel unwell.
  Take off contaminated clothing and wash it before reuse.
  If skin irritation or rash occurs: Get medical advice/attention.
  Wash contaminated clothing before reuse.
  In case of fire: Use for extinction: CO2, powder or water spray.
  Store in a well-ventilated place. Keep container tightly closed.
  Store in a well-ventilated place. Keep cool.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

![NFPA ratings](image)

Health = 1  Fire = 3  Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

![HMIS-ratings](image)

Health = 1  Fire = 3  Reactivity = 0
Product name: Acrylic Tinting Concentrate

· 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>
</thead>
<tbody>
<tr>
<td>80-62-6 methyl methacrylate</td>
<td></td>
</tr>
<tr>
<td>Fl. Liq. 2, H225; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335</td>
<td></td>
</tr>
<tr>
<td>99-97-8 N,N-dimethyl-p-toluidine</td>
<td>≥0.1-≤1%</td>
</tr>
<tr>
<td>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Carc. 2, H351; STOT RE 2, H373; Flam. Liq. 4, H227; Aquatic Chronic 3, H412</td>
<td></td>
</tr>
</tbody>
</table>

· Non-hazardous Components:
  · Dye: ≤1%

· Additional information: The exact percentage or concentration of the above ingredients is proprietary.

4 First-aid measures

· Description of first aid measures
  · General information:
    Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  · After inhalation:
    Supply fresh air and to be sure call for a doctor.
    In case of unconsciousness place patient stably in side position for transportation.
  · After skin contact:
    Immediately wash with water and soap and rinse thoroughly.
  · After eye contact:
    Rinse opened eye for several minutes under running water.
  · After swallowing:
    Rinse out mouth and then drink plenty of water.
  · 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: During heating or in case of fire poisonous gases are produced.
  · Advice for firefighters
  · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  · Mount respiratory protective device.
  · Wear protective equipment. Keep unprotected persons away.
  · Environmental precautions:
    Prevent seepage into sewage system, workpits and cellars.
    Dilute with plenty of water.
  · 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.
  · Reference to other sections
    See Section 7 for information on safe handling.
Product name: Acrylic Tinting Concentrate

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>Chemical</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAC-1</td>
<td>methyl methacrylate</td>
<td>17 ppm</td>
</tr>
<tr>
<td>PAC-2</td>
<td>methyl methacrylate</td>
<td>120 ppm</td>
</tr>
<tr>
<td>PAC-3</td>
<td>methyl methacrylate</td>
<td>570 ppm</td>
</tr>
</tbody>
</table>

7 **Handling and storage**

- **Handling:**
  - Precautions for safe handling
    - Open and handle receptacle with care.
    - Prevent formation of aerosols.
  - Information about protection against explosions and fires:
    - Keep ignition sources away - Do not smoke.
    - Protect against electrostatic charges.
    - Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - Requirements to be met by storerooms and receptacles: Store at temperatures not exceeding 25°C.
  - Information about storage in one common storage facility:
    - Store away from oxidizing agents.
    - Store away from reducing agents.
  - Further information about storage conditions:
    - Keep receptacle tightly sealed.
    - Store in cool, dry conditions in well sealed receptacles.
    - Store receptacle in a well ventilated area.
  - 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:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Long-term value</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6 methyl methacrylate</td>
<td>410 mg/m³, 100 ppm</td>
<td>100 ppm</td>
</tr>
<tr>
<td>99-97-8 N,N-dimethyl-p-toluidine</td>
<td>205 mg/m³, 50 ppm</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

- **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.
    - Store protective clothing separately.
Product name: Acrylic Tinting Concentrate

Avoid contact with the skin.
Avoid contact with the eyes and skin.
- **Breathing equipment**: Use suitable respiratory protective device when high concentrations are present.
- **Protection of hands**: Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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**: 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**: Tightly sealed goggles

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance**: Liquid
  - **Form**: Liquid
  - **Color**: According to product specification
  - **Odor**: Acrid
  - **Odor threshold**: Not determined.
  - **pH-value**: Not determined.
  - **Change in condition**
    - **Melting point/Melting range**: -48 °C (-54.4 °F)
    - **Boiling point/Boiling range**: 101 °C (213.8 °F)
  - **Flash point**: 11 °C (51.8 °F)
  - **Flammability (solid, gaseous)**: Not applicable.
  - **Ignition temperature**: 430 °C (806 °F)
  - **Decomposition temperature**: Not determined.
  - **Auto igniting**: Product is not selfigniting.
  - **Danger of explosion**: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
  - **Explosion limits**:
    - **Lower**: 2.1 Vol %
    - **Upper**: 12.5 Vol %
  - **Vapor pressure at 20 °C (68 °F)**: 47 hPa (35.3 mm Hg)
  - **Density at 20 °C (68 °F)**: 0.94 g/cm³ (7.8443 lbs/gal)
  - **Relative density**: Not determined.
  - **Vapor density at 15.5 °C (59.9 °F)**: 3.5 (Air = 1)
  - **Specific gravity**: 0.949 (Water = 1)
Product name: Acrylic Tinting Concentrate

| · Evaporation rate         | 3.1 (BuAc =1) |
| · Solubility in / Miscibility with Water at 20 °C (68 °F) | 1.6 g/l |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity:                | |
| Dynamic:                   | Not determined. |
| Kinematic:                 | Not determined. |
| · Solvent content:         | |
| VOC content:               | 0.00 % |
| · 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: Danger of polymerization.
· Conditions to avoid:
  Protect from sunlight.
  Keep away from oxidising agents and acidic substances.
  Freezing conditions
· Incompatible materials: No further relevant information available.
· Hazardous decomposition products: Carbon monoxide and carbon dioxide
· Additional information: Hazardous decomposition products may form during combustion.

11 Toxicological information

· Information on toxicological effects
· Acute toxicity:

| · LD/LC50 values that are relevant for classification: |
| · ATE (Acute Toxicity Estimate) |
| Oral  | LD50  | 165,000 mg/kg (rat) |
| Dermal | LD50  | 4,360 mg/kg |
| Inhalative | LC50/4 h  | 16.2 mg/l (rat) |

80-62-6 methyl methacrylate

| Oral  | LD50  | 7,872 mg/kg (rat) |
| Dermal | LD50  | 5,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h  | 18 mg/l (rat) |

99-97-8 N,N-dimethyl-p-toluidine

| Oral  | LD50  | 1,650 mg/kg (rat) |
| Dermal | LD50  | 300 mg/kg (ATE) |
| Inhalative | LC50/4 h  | 1.4 mg/l (rat) |

· Primary chemical irritant effect:
  · on the skin: Irritant to skin and mucous membranes.
  · on the eye: No irritating effect.
· Sensitization: Sensitization possible through skin contact.
· Additional toxicological information:
· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

80-62-6 methyl methacrylate
Product name: Acrylic Tinting Concentrate

12 Ecological information

• Toxicity
  • Aquatic toxicity:
    80-62-6 methyl methacrylate
    EC50 (96 h) 170 mg/l (pseudokirchneriella subcapitata)
    EC50 (48 h) 69 mg/l (daphnia)
    LC50 (96 h) 79 mg/l (oncorhynchus mykiss)

13 Disposal considerations

• Waste treatment methods
  • Recommendation: Contact waste processors for recycling information.

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

4 Transport information

• UN-Number
  • DOT, IMDG, IATA UN1247

• UN proper shipping name
  • DOT Methyl methacrylate monomer, stabilized
  • IMDG, IATA METHYL METHACRYLATE MONOMER, STABILIZED

• Transport hazard class(es)
  • DOT
  • Class 3 Flammable liquids
Product name: Acrylic Tinting Concentrate

| · Label | 3 |
| · IMDG, IATA | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · Packing group | |
| · DOT, IMDG, IATA | II |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Warning: Flammable liquids |
| · Hazard identification number (Kepler code): | 33 |
| · EMS Number: | F-E,S-D |
| · Stowage Category | C |
| · Stowage Code | SW1 Protected from sources of heat. |
| | SW2 Clear of living quarters. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · DOT | |
| · Quantity limitations | On passenger aircraft/rail: 5 L |
| | On cargo aircraft only: 60 L |
| · Limited quantities (LQ) | 1L |
| · Transport category | 2 |
| · Tunnel restriction code | D/E |
| · IMDG | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E2 |
| | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED, 3, II |

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):
    80-62-6 methyl methacrylate
  · TSCA (Toxic Substances Control Act):
    All other ingredients are exempt from listing.
    All components have the value ACTIVE.
  · Hazardous Air Pollutants
    80-62-6 methyl methacrylate

(Contd. on page 9)
Product name: Acrylic Tinting Concentrate

- **Proposition 65**
  - **Chemicals known to cause cancer:**
    - 99-97-8 N,N-dimethyl-p-toluidine
  - **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)**
    - 80-62-6 methyl methacrylate
      - E, NL
  - **TLV (Threshold Limit Value established by ACGIH)**
    - 80-62-6 methyl methacrylate
      - A4
  - **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:** 04/30/2020 / 2.9
- **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)
  - 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. 2: Flammable liquids – Category 2
  - Flam. Liq. 4: Flammable liquids – Category 4
  - Acute Tox. 3: Acute toxicity – Category 3
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Carc. 2: Carcinogenicity – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3