Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 02.12.2014
Revision: 02.12.2014

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

1.1 Product identifier
- Trade name: Eco-Stuck Contact Cement
- Article number: 22-07

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

1.3 Details of the supplier of the Safety Data Sheet
Manufacturer/Supplier:
Mon-Eco Industries, Inc.
5 Joanna Ct.
East Brunswick, NJ 08816
Phone: 732-257-7942

Further information obtainable from: Product Safety Department
MON-ECO INDUSTRIES, INCORPORATED

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

flammable
- Flam. Liq. 2 H225 Highly flammable liquid and vapour.

health hazard
- Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

environment
- Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

(Contd. on page 2)
Trade name: Eco-Stuck Contact Cement

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  - **Xn; Harmful**
  - **Xi; Irritant**
    - R36/38: Irritating to eyes and skin.
  - **Xi; Sensitising**
    - R43: May cause sensitisation by skin contact.
  - **F; Highly flammable**
    - R11: Highly flammable.
  - **N; Dangerous for the environment**
    - R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
    - R67: 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.
  Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

- **Classification system:**
  The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
  The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**
    The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**
  - GHS02 GHS07 GHS08 GHS09

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  - n-hexane
  - toluene

- **Hazard statements**
  - H225 Highly flammable liquid and vapour.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
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Trade name: Eco-Stuck Contact Cement

H361Fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H336+ May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P240 Ground/bond container and receiving equipment.
P242 Use only non-sparking tools.
P273 Avoid release to the environment.
P243 Take precautionary measures against static discharge.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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.
P321 Specific treatment (see on this label).
P362 Take off contaminated clothing and wash before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P391 Collect spillage.
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
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
D2A - Very toxic material causing other toxic effects
D2B - Toxic material causing other toxic effects

(Contd. of page 2)

(Contd. on page 4)
Trade name: Eco-Stuck Contact Cement

- NFPA ratings (scale 0 - 4)
  - Health = 2
  - Fire = 3
  - Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  - Health = *2
  - 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.

#### Dangerous components:

<table>
<thead>
<tr>
<th>CAS: 110-54-3</th>
<th>EINECS: 203-777-6</th>
<th>n-hexane</th>
<th>25-50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index number: 601-037-00-0</td>
<td>Repr. Cat. 3</td>
<td>Xn R48/20-62-65; Xi R38; F R11; N R51/53 R67</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rep. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304</td>
<td>Aquatic Chronic 2, H411</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, H315; STOT SE 3, H336</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 67-64-1</th>
<th>EINECS: 200-662-2</th>
<th>acetone</th>
<th>25-50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index number: 606-001-00-8</td>
<td></td>
<td>Xi R36; F R11</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304</td>
<td>Aquatic Chronic 2, H411</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, H315; STOT SE 3, H336</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 5)
SECTION 4: First aid measures

4.1 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

After eye contact:
Remove contact lenses if worn.
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; call for medical help immediately.
A person vomiting while laying on their back should be turned onto their side.

4.2 Most important symptoms and effects, both acute and delayed

Headache
Dizziness
Breathing difficulty
Gastric or intestinal disorders.

Hazards
Danger of convulsion.
Danger of disturbed cardiac rhythm.
Danger of impaired breathing.
Condition may deteriorate with alcohol consumption.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.
SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- 5.2 Special hazards arising from the substance or mixture
  No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment:
  Wear self-contained respiratory protective device.
  Wear fully protective suit.
- Additional information
  Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation
  Keep away from ignition sources.
- 6.2 Environmental precautions:
  Do not allow product to reach sewage system or any water course.
  Inform respective authorities in case of seepage into water course or sewage system.
- 6.3 Methods and material for containment and cleaning up:
  Allow to solidify. Pick up mechanically.
  Clean the affected area carefully; suitable cleaners are:
  Organic solvent
  Warm water and cleansing agent
  Dispose contaminated material as waste according to item 13.
- 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
  Keep receptacles tightly sealed.
  Use only in well ventilated areas.
- Information about fire - and explosion protection:
  Protect from heat.
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:
  Store in a cool location.
Trade name: Eco-Stuck Contact Cement

- Information about storage in one common storage facility:
  Do not store together with oxidising and acidic materials.
  Store away from foodstuffs.
- Further information about storage conditions:
  Store in cool, dry conditions in well sealed receptacles.
  Store receptacle in a well ventilated area.
- 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: |  
|-----------------|-----------------|
| **110-54-3 n-hexane** |  
| IOELV (EU) | 72 mg/m³, 20 ppm  
| PEL (USA) | 1800 mg/m³, 500 ppm  
| REL (USA) | 180 mg/m³, 50 ppm  
| TLV (USA) | 176 mg/m³, 50 ppm  
| Skin; BEI |  
| EL (Canada) | 20 ppm  
| Skin |  
| EV (Canada) | 176 mg/m³, 50 ppm  

| **67-64-1 acetone** |  
| IOELV (EU) | 1210 mg/m³, 500 ppm  
| PEL (USA) | 2400 mg/m³, 1000 ppm  
| REL (USA) | 590 mg/m³, 250 ppm  
| TLV (USA) | Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm  
| | Long-term value: (1188) NIC-475 mg/m³, (500) NIC-200 ppm  
| BEI |  
| EL (Canada) | Short-term value: 500 ppm  
| | Long-term value: 250 ppm  
| EV (Canada) | Short-term value: 750 ppm  
| | Long-term value: 500 ppm  

| **108-88-3 toluene** |  
| PEL (USA) | Short-term value: C 300, 500* ppm  
| | Long-term value: 200 ppm  
| | *10-min peak per 8-hr shift  
| REL (USA) | Short-term value: 560 mg/m³, 150 ppm  
| | Long-term value: 375 mg/m³, 100 ppm  
| TLV (USA) | 75 mg/m³, 20 ppm  
| BEI |  

(Contd. on page 8)
Trade name: Eco-Stuck Contact Cement

| EL (Canada) | 20 ppm | R |
| EV (Canada) | 20 ppm | |

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

- 8.2 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 and skin.
  - Respiratory protection:
    Not necessary if room is well-ventilated.
    Use suitable respiratory protective device in case of insufficient ventilation.
    Use suitable respiratory protective device when high concentrations are present.
- Protection of hands:
  - Protective gloves
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
    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:
  - Safety glasses

Body protection: Impervious protective clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Liquid
Trade name: Eco-Stuck Contact Cement

- Colour: Amber coloured
- Odour: Mild
- Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: Not Determined.
  - Boiling point/Boiling range: 66 °C / 151 °F
- Flash point: -18 °C / 0 °F
- Flammability (solid, gaseous): Not applicable.
- Auto/Self-ignition temperature: 240 °C / 464 °F
- Decomposition temperature: Not determined.
- Self-igniting: Product is not self-igniting.
- Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Explosion limits:
  - Lower: 1.2 Vol %
  - Upper: 13.0 Vol %
- Vapour pressure at 20 °C: 233 hPa (175 mm Hg - [Estimated])
- Density at 20 °C: 0.81 g/cm³
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- 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:
  - Organic solvents: 448 g/L
  - VOC content: 79.0 %
- 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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Trade name: Eco-Stuck Contact Cement

To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions
Reacts with oxygen.
Reacts with oxidising agents.
Develops readily flammable gases/fumes.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:
Carbon monoxide and carbon dioxide
Formaldehyde

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity:

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>108-88-3 toluene</th>
<th>Oral</th>
<th>LD50</th>
<th>5000 mg/kg (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>12124 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h</td>
<td>5320 mg/l (mouse)</td>
<td></td>
</tr>
</tbody>
</table>

Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitisation: No sensitising effects known.

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
Product is suspected to cause damage to fertility.
The product can cause deformations.
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
Repr. 2

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability A part of the components is biodegradable.
12.3 Bioaccumulative potential
Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.
12.4 Mobility in soil No further relevant information available.
Ecotoxic effects:
Remark: Toxic for fish

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Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Trade name: Eco-Stuck Contact Cement

- Additional ecological information:
  - General notes:
    Water hazard class 2 (German Regulation) (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.
    Also poisonous for fish and plankton in water bodies.
    Toxic for aquatic organisms
  - 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
    Contact waste processors for recycling information.
    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.
  - Uncleaned packaging:
    - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number
- DOT, ADR, IMDG, IATA
- 14.2 UN proper shipping name
- DOT, IMDG, IATA
- ADR
- 14.3 Transport hazard class(es)
  - DOT
    - Class 3 Flammable liquids.
    - Label 3
  - ADR
    - Class 3 (F1) Flammable liquids.

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Trade name: Eco-Stuck Contact Cement

· Label
  · IMDG, IATA
  · Class 3 Flammable liquids.
  · Label 3
  · 14.4 Packing group
  · DOT, ADR, IMDG, IATA II
  · 14.5 Environmental hazards:
    · Marine pollutant: No
    · 14.6 Special precautions for user Warning: Flammable liquids.
    · Danger code (Kemler): 33
    · EMS Number: F-E,S-E
  · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
  · Transport/Additional information:
    · ADR
      · Limited quantities (LQ) 5L
      · Transport category 2
      · Tunnel restriction code D/E
      · UN "Model Regulation": UN1133, ADHESIVES, 3, II

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):
        · 50-00-0 formaldehyde
      · Section 313 (Specific toxic chemical listings):
        · 110-54-3 n-hexane
        · 108-88-3 toluene
    · TSCA (Toxic Substances Control Act):
      · All ingredients are listed.
    · Proposition 65 (California):
      · Chemicals known to cause cancer:
        · 50-00-0 formaldehyde
      · Chemicals known to cause reproductive toxicity for females:
        · 108-88-3 toluene

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Trade name: Eco-Stuck Contact Cement

- Chemicals known to cause reproductive toxicity for males:
  None of the ingredients are listed.

- Chemicals known to cause developmental toxicity:
  108-88-3 toluene

- Carcinogenic Categories
  - EPA (Environmental Protection Agency)
    110-54-3 n-hexane II
    67-64-1 acetone I
    108-88-3 toluene II
  - IARC (International Agency for Research on Cancer)
    None of the ingredients are listed.

- TLV (Threshold Limit Value established by ACGIH)
  67-64-1 acetone A4
  108-88-3 toluene A4

- 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%)
    All ingredients are listed.

- National regulations:
  - Other regulations, limitations and prohibitive 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.
  H304 May be fatal if swallowed and enters airways.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H336 May cause drowsiness or dizziness.
  H361d Suspected of damaging the unborn child.
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H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
R11 Highly flammable.
R36 Irritating to eyes.
R38 Irritating to skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
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
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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