1. IDENTIFICATION

Product Name: 5450-66

Recommended use of the chemical and restrictions on use

Identified uses: Pressure Sensitive Adhesive

Restrictions on use: See product data sheet.

Company Identification: Raven Industries, Inc – Engineered Films
P.O. Box 5107
Sioux Falls, SD 57117-5107

Customer Information Number:
(800) 635-3456 (Monday – Friday 8:00 am to 5:00 pm)
http://ravenefd.com/products/accessories

Emergency Telephone Number

CHEMTREC Number: Within USA and Canada: +1 (800) 635-3456
Outside USA and Canada: +1 (605) 335-0174

Issue Date: March 11, 2016

Supersedes Date: This is the first issue.

Safety Data Sheet prepared in accordance with OSHA’s Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARD IDENTIFICATION

Hazard Classification
This product is classified as not hazardous in accordance with the Globally Harmonized System of Classification and Labelling (GHS).

Label Elements
Hazard Symbols
None

Signal Word: None

Hazard Statements
None

Precautionary Statements
Prevention
None
Response
None
Storage
None
Disposal
None

Other Hazards
None
2. HAZARD IDENTIFICATION

Specific Concentration Limits
The values listed below represent the percentages of ingredients of unknown toxicity.
Acute oral toxicity <10%
Acute dermal toxicity <10%
Acute inhalation toxicity <10%
Acute aquatic toxicity >90%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:
This product is a mixture.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymers and resins</td>
<td>N.A.</td>
<td>10 - 20%</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

Description of necessary first-aid measures

Eyes
Immediately flood the eye with plenty of water. Obtain medical attention if symptoms persist.

Skin
Wash skin thoroughly with soap and water. Obtain medical attention if symptoms persist.

Ingestion
Obtain medical attention immediately.

Inhalation
Remove person to fresh air if symptoms occur. Seek medical attention if symptoms persist.

Most important symptoms/effects, acute and delayed
Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed
Notes to Physicians
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water spray, carbon dioxide and dry chemical.

Specific hazards arising from the chemical
May release hazardous vapors during a fire.

Special Protective Actions for Fire-Fighters
Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Wear appropriate protective clothing.
6. ACCIDENTAL RELEASE MEASURES

Environmental Precautions
Prevent the material from entering drains or watercourses.

Methods and materials for containment and cleaning up
Pick up and transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Wear appropriate protective clothing.

Conditions for safe storage
Store away from sources of heat or ignition. Storage area should be: cool - dry - well ventilated - out of direct sunlight - away from sources of ignition(heat, sparks, flames, pilot lights) - away from incompatible materials (see Section 10)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure limits are listed below, if they exist.

Appropriate engineering controls
No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Individual protection measures
Respiratory Protection
Not required under normal conditions of use.
Skin Protection
Gloves
Eye/Face Protection
Safety glasses
Body Protection
Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Solid: Pressure sensitive adhesive coated on a polymer film protected by a release liner</td>
</tr>
<tr>
<td>Color</td>
<td>Black/Silver</td>
</tr>
</tbody>
</table>

| Odor        | None           |
| Odor Threshold | No data available |
| pH          | Not applicable |
| Density (g/yd²) | No data available |
| Boiling Range/Point (°C/F) | Not applicable |
| Melting Point (°C/F) | Not applicable |
| Flash Point (PMCC) (°C/F) | Not applicable |
| Vapor Pressure | Not applicable |
| Evaporation Rate (BuAc=1) | Not applicable |
| Solubility in Water | Negligible |
9. PHYSICAL AND CHEMICAL PROPERTIES

- Vapor Density (Air = 1) Not applicable
- VOC (%) Negligible
- Partition coefficient (n-octanol/water) Not applicable
- Viscosity Not applicable
- Auto-ignition Temperature No data available
- Decomposition Temperature No data available
- Upper explosive limit No data available
- Lower explosive limit No data available
- Flammability (solid, gas) No data available

10. STABILITY AND REACTIVITY

- Reactivity
  Data is not available.

- Chemical Stability
  Stable under normal conditions.

- Possibility of hazardous reactions
  Hazardous polymerization will not occur.

- Conditions to Avoid
  Heat - high temperatures

- Incompatible Materials
  Acids – bases – oxidizers

- Hazardous Decomposition Products
  Oxides of carbon – asphyxiants

11. TOXICOLOGICAL INFORMATION

- Acute Toxicity
  Available data indicates this product is not expected to be acutely toxic.

- Specific Target Organ Toxicity (STOT) – single exposure
  Available data indicates this product is not expected to cause target organ effects after a single exposure.

- Specific Target Organ Toxicity (STOT) – repeat exposure
  Available data indicates this product is not expected to cause target organ effects after repeated exposure.

- Serious Eye damage/Irritation
  Available data indicates this product is not expected to cause eye irritation.

- Skin Corrosion/Irritation
  Available data indicates this product is not expected to cause skin irritation.

- Respiratory or Skin Sensitization
  No relevant studies identified.
11. **TOXICOLOGICAL INFORMATION**

**Carcinogenicity**
Not considered carcinogenic by NTP, IARC, and OSHA.

**Germ Cell Mutagenicity**
Available data indicates this product is not expected to be mutagenic.

**Reproductive Toxicity**
Available data indicates this product is not expected to cause reproductive toxicity or birth defects.

**Aspiration Hazard**
Not an aspiration hazard.

12. **ECOLOGICAL INFORMATION**

**Ecotoxicity**
No relevant studies identified.

**Mobility in soil**
No relevant studies identified.

**Persistence/Degradability**
No relevant studies identified.

**Bioaccumulative Potential**
No relevant studies identified.

**Other adverse effects**
No relevant studies identified.

13. **DISPOSAL CONSIDERATIONS**

**Disposal Methods**
Dispose of in accordance with all applicable local and national regulations.

14. **TRANSPORT INFORMATION**

**DOT CFR 172.101 Data**
- Not Regulated

**UN Proper Shipping Name**
- Not Regulated

**UN Class**
- None

**UN Number**
- None

**UN Packaging Group**
- None

**Classification for AIR**
Consult current IATA Regulations prior to shipping by air.

**Environmental Hazards**
- Not a marine pollutant

15. **REGULATORY INFORMATION**

**United States TSCA Inventory**
All components of this product are in compliance or are exempt from inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.
15. REGULATORY INFORMATION

Canada DSL Inventory
All ingredients in this product are listed on or are exempt from listing on the Domestic Substance List (DSL).

California Proposition 65
This product contains materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 311/312 Categorization
None

SARA Title III Sect. 313
This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None

16. OTHER INFORMATION

Legend
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service
ECHA: European Chemicals Agency
IARC: International Agency for Research on Cancer
N/A: Denotes no applicable information found or available
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
VOC: Volatile Organic Compounds

Revision Date: March 11, 2016
Replaces: This is the first issue.
Changes made: Not applicable.

Information Source and References
This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC

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