Safety Data Sheet
29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: ETHYL SAFRANATE

Company: THE JOHN D. WALSH CO., INC.
25 EXECUTIVE PKWY.
RINGWOOD, NJ 07456

Emergency 24 HOUR EMERGENCY NUMBER
Response: CHEMTREC (800) 424-9300

Section 2: Hazards Identification

Hazard Pictograms:

Signal Word: Warning
Hazard Category: Flammable Liq Cat 4
Hazard Statements: H227: Combustible liquid
Precautionary: P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
P370+378: In case of fire: Use appropriate media to extinguish
P403+235: Store in a well ventilated place. Keep cool
P501 Dispose of om a safe manner in accordance with local/national regulations
IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS#</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl 2,6,6 - trimethylcyclohexa-2,4-diene-1-carboxylate ethyl dehydro cyclogeranate</td>
<td>35044-59-8</td>
<td>100%</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

If ingested: Do not induce vomiting. Rinse mouth. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Immediately call a poison center or doctor/physician.

If inhaled: Remove to fresh air. Obtain medical attention if asthma-like symptoms or other symptoms develop.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

Skin contact: Take off immediately all contaminated clothing. Rinse with water thoroughly. Get medical advice if irritation develops or persists.

Additional Info: Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.
Section 5: Fire Fighting Measures

**Extinguishing** Carbon dioxide (CO2), dry chemical, foam. Firefighters should wear self-contained breathing
Method / Equipment: apparatus (SCBA) and full protective equipment. DO NOT USE: Water in a jet.

**Hazardous** Constituents associated with burning / combustion are to be considered toxic.
Decomposition Info:

Section 6: Accidental Release Measures

**Personal precautions**, Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate
**protective equipment** all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate
**and procedures**: protective equipment and clothing during clean-up. Avoid breathing vapors. Ventilate
area if easy to do so. Contact local authorities if significant spillages cannot be contained. For
**Containment** Large Spills: Contain actively spilling material if safe and easy to do so. Dike the spilled
**Equipment and** material, where this is possible. Utilize absorbent clay or sand to contain and stop spreading
**Procedures**: material.

**Small Spills**: Utilize absorbent clay or sand and transfer to waste receptacles.

**Cleanup Procedures**: Collect all contaminated clay, media, or other cleanup materials into a waste receptacle. If
cleaning surface is necessary, utilize mineral spirits or other solvents, provided adequate
ventilation is available.

Section 7: Handling and Storage

**Safe Handling** Do not handle until all safety precautions have been read and understood. Do not handle near an
**Precautions**: open flame or sources of ignition. Ensure adequate ventilation. Take precautionary measures
against static discharges. Avoid breathing vapors. Avoid contact with eyes, skin, and clothing.
Avoid prolonged exposure. Wear appropriate personal protective equipment.

**Recommendations** Store in cool area in product container away from sources of ignition or flame.
**for Storage:**

**Incompatibilities**: Store away from strong acids or oxidizing agents. Refer to Section 10.

Section 8: Exposure Control / Personal Protection

**General** Local exhaust ventilation should be utilized to control vapors / substances below exposure limits.
**Engineering**: Eye wash facilities must be available when handling this product.
**Controls**: 

**Work Clothing**: Protective work clothing which covers skin and prevents exposures.

**Eye/face protection**: Wear safety goggles or face shield.

**Skin Protection**: Wear solvent resistant gloves.

**Respiratory** Utilize organic vapor respirator if airborne levels are not maintained below exposure limits, or if
**Protection**: ventilation is inadequate.

**Additional** Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash
**Information**: hands or exposed skin after using the product.
Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not avail</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not avail</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless to pale yellow</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>229°C / 444°F</td>
</tr>
<tr>
<td>pH</td>
<td>Not avail</td>
</tr>
<tr>
<td>Sp Grav</td>
<td>Not avail</td>
</tr>
<tr>
<td>Odor</td>
<td>Pine needle</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Not avail</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not avail</td>
</tr>
<tr>
<td>Flash Point</td>
<td>81°C</td>
</tr>
<tr>
<td>Part. Coeff (n-octanol/water)</td>
<td>Not avail</td>
</tr>
<tr>
<td>Upper Flam Limits</td>
<td>Not avail</td>
</tr>
<tr>
<td>Lower Flam Limits</td>
<td>Not avail</td>
</tr>
<tr>
<td>VOC Content (lbs/gal)</td>
<td>Not avail</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not avail</td>
</tr>
<tr>
<td>Autoignition Temp</td>
<td>Not avail</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

General: This product is stable and non-reactive under normal conditions of use. Solvent vapors will evaporate from exposed material. Product is not subject to hazardous polymerization. Avoid open flame and ignition sources.

Incompatible materials: Strong oxidizing agents.

Decomposition products: Carbon monoxide, Carbon Dioxide (CO2). Smoke.

Section 11: Toxicological Information

Toxicological Information (contained substances)

<table>
<thead>
<tr>
<th>Hazardous substance (name)</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL SAFRANATE</td>
<td>DO NOT INGEST</td>
<td>AVOID CONTACT WITH SKIN</td>
</tr>
</tbody>
</table>

Carcinogenicity or mutagenicity: NOT LISTED

Sensitization: NOT AVAILABLE

Other Notes: Not applicable.

Section 12: Ecological Information

Degradation / Mobility info: No specific data available. Contained solvents are expected to degrade rapidly in the environment.

Bioaccumulative potential: No specific data available. Contained solvents are expected to degrade rapidly in the environment.
Section 13: Disposal Information

Product disposal: Dispose of product in accordance with local, regional, and national regulations. Consult with waste contractor. Contains low levels of flammable solvents.

Container disposal: Treat empty containers with extra care, as residual solvents may pose ignition hazard. Consult waste contractor.

Section 14: Transport Information

DOT NON BULK: NOT REGULATED

IMO/IMDG: NOT REGULATED

IATA: NOT REGULATED

Section 15: Regulatory Information

TSCA: NOT LISTED

CERCLA RQ: NOT LISTED

SARA 313 NOT LISTED

California Prop 65 NOT LISTED

Substances:

Canadian DSL: NOT LISTED

WHMIS: H-2,F-2,R-0

Section 16: Other Information

Version Date: 4/16/2015

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