1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Clear-Rite 3
Cat No.: 6901, 6905, 6915, 6955
Synonyms: No information available.
Recommended Use: Laboratory chemicals

Company: Richard Allan Scientific
A Subsidiary of Thermo Fisher Scientific
4481 Campus Drive
Kalamazoo, MI 49008
Tel: (800) 522-7270

Emergency Telephone Number: Chemtrec US: (800) 424-9300
Chemtrec EU: 001 (202) 483-7616

2. HAZARDS IDENTIFICATION

The product is classified as dangerous in accordance with Directive 1999/45/EC or 67/548/EEC.

T · F

R -phrase(s)
R11 - Highly flammable
R45 - May cause cancer
R46 - May cause heritable genetic damage
R53 - May cause long-term adverse effects in the aquatic environment
R65 - Harmful: may cause lung damage if swallowed
R66 - Repeated exposure may cause skin dryness or cracking

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight %</th>
<th>EC No.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Mixture of Aliphatic Hydrocarbons NA</td>
<td>100</td>
<td>-</td>
<td>F; R11 Carc.Cat.2; R45 Muta.Cat.2; R46 R53 Xn; R65 R66</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**Eye Contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

**Skin Contact**
Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

**Ingestion**
Do not induce vomiting. Call a physician or Poison Control Center immediately.

**Inhalation**
Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.

**Notes to Physician**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

**Extinguishing media which must not be used for safety reasons**
Do not use a solid water stream as it may scatter and spread fire

**Specific Hazards Arising from the Chemical**
Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

**Flash Point**
18.3°C / 64.9°F

**Method**
No information available.

**Autoignition Temperature**
No information available.

**Explosion Limits**
- Lower: 0.8 vol %
- Upper: 7.0 vol %
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions
Should not be released into the environment.

Methods for Containment and Clean Up
Remove all sources of ignition. Soak up with inert absorbent material. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Handling
Use only under a chemical fume hood. Use explosion-proof equipment. Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest.

Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

Specific use(s)
No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits
The product does not contain any hazardous materials with occupational exposure limits established.

Occupational exposure controls

Engineering Measures
Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Respiratory Protection
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Eye Protection
Tightly fitting safety goggles

Skin and body protection
Wear appropriate protective gloves and clothing to prevent skin exposure.

Hand Protection
Protective gloves

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls
No information available.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear Colorless</td>
</tr>
<tr>
<td>odor</td>
<td>aromatic</td>
</tr>
<tr>
<td>pH</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt; 30 mmHg @ 25 °C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>4.1 - 5.0</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>116 - 176°C / 240.8 - 348.8°F</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>18.3°C / 64.9°F</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>0.8 vol %</td>
</tr>
<tr>
<td>Upper</td>
<td>7.0 vol %</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.73 @ 15.6°C</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable under normal conditions.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Incompatible products. Heat, flames and sparks.</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>Strong oxidizing agents</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Carbon monoxide (CO), Carbon dioxide (CO₂)</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Hazardous polymerization does not occur.</td>
</tr>
<tr>
<td>Hazardous Reactions</td>
<td>None under normal processing.</td>
</tr>
</tbody>
</table>

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>No acute toxicity information is available for this product</td>
</tr>
<tr>
<td>Component Information</td>
<td></td>
</tr>
<tr>
<td>Chronic Toxicity</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>Sensitization</td>
<td>No information available.</td>
</tr>
<tr>
<td>Neurological Effects</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

Thermo Fisher Scientific
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Mutagenic Effects  May cause heritable genetic damage
Reproductive Effects  No information available.
Developmental Effects  No information available.
Target Organs  Lungs, Skin, Liver, Kidney.
Other Adverse Effects  The toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Do not empty into drains. May cause long-term adverse effects in the aquatic environment.

Persistence and Degradability  No information available
Bioaccumulative Potential  No information available.
Mobility  No information available.

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products  Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification
Contaminated Packaging  Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

IMDG/IMO
UN-No  UN1268
Hazard Class  3
Packing Group  II
Proper Shipping Name  PETROLEUM PRODUCTS, N.O.S.

ADR
UN-No  UN1268
Hazard Class  3
Packing Group  III
Proper Shipping Name  PETROLEUM PRODUCTS, N.O.S.
14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>IATA</th>
<th></th>
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<tr>
<td>UN-No</td>
<td>UN1268</td>
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<tr>
<td>Hazard Class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>II</td>
</tr>
<tr>
<td>ProperShipping Name</td>
<td>PETROLEUMPRODUCTS, N.O.S.</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

The product is classified as dangerous in accordance with Directive 1999/45/EC or 67/548/EEC

Labelling

Symbol(s) F - Highly flammable T - Toxic

R -phrase(s)
R11 - Highly flammable
R45 - May cause cancer
R46 - May cause heritable genetic damage
R53 - May cause long-term adverse effects in the aquatic environment
R65 - Hazard: may cause lung damage if swallowed
R66 - Repeated exposure may cause skin dryness or cracking

S -phrase(s)
S 7 - Keep container tightly closed
S 9 - Keep container in a well-ventilated place
S16 - Keep away from sources of ignition. No smoking
S33 - Take precautionary measures against static discharges
S53 - Avoid exposure - obtain special instructions before use
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S37/39 - Wear suitable gloves and eye/face protection

International Inventories
16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3
R11 - Highly flammable
R45 - May cause cancer
R46 - May cause heritable genetic damage
R53 - May cause long-term adverse effects in the aquatic environment
R65 - Harmful: may cause lung damage if swallowed
R66 - Repeated exposure may cause skin dryness or cracking

Prepared By
Regulatory Affairs

Creation Date
12-Aug-2010

Revision Date
12-Aug-2010

Revision Summary
“***”, and red text indicates revision

Restrictions on use
No information available.

Training advice
No information available.

Literary reference
No information available.

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet