M A T E R I A L   S A F E T Y   D A T A   S H E E T

Date Printed: 12/15/2010

Product Code: 1700F150
Product Name: 1700F150 HI TEMP ALUM #7

A.P. NONWEILER COMPANY, 3321 COUNTY ROAD A, P.O. BOX 1007, OSHKOSH, WI 54903-1007

24-hour Emergency Phone: 1-800-535-5053

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: A.P. NONWEILER COMPANY
ADDRESS: 3321 COUNTY ROAD A
P.O. BOX 1007
OSHKOSH, WI 54903-1007
EMERGENCY PHONE: 1-800-535-5053
INFORMATION PHONE: (920) 231-0850

DATE PRINTED: 12/15/2010

HMIS CODES: H F R P
2 3 0 H

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component/Exposure Limits</th>
<th>CAS#</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILICONE MODIFIED LONG OIL ALKYD</td>
<td>MIXTURE</td>
<td>44.37</td>
</tr>
<tr>
<td>100 PPM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* MIXED XYLENES (LIMITED PARAXYLENE CONTENT), ETHYL BENZENE</td>
<td>1330-20-7</td>
<td>17.53</td>
</tr>
<tr>
<td>100 PPM TWA OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MINERAL SPIRITS</td>
<td>64742-88-7</td>
<td>17.30</td>
</tr>
<tr>
<td>100 PPM ACGIH TLV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500 PPM OSHA PEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* TOluene</td>
<td>108-88-3</td>
<td>12.78</td>
</tr>
<tr>
<td>200 PPM TWA OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 PPM CEIL OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500 PPM PEAK OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* SOL. OF SALTPOL UNSATURATED AMIDES AND HIGHER WEIGHT ACIDIC ESTATERS</td>
<td>PROPRIETARY</td>
<td>.15</td>
</tr>
<tr>
<td>ZIRCONIUM 2-ETHYLHEXANOATE SOLUTION</td>
<td>MIXTURE</td>
<td>.10</td>
</tr>
<tr>
<td>5 MG/M3 AS Zr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COBALT ALKANOATE SOLUTION</td>
<td>8020-83-5</td>
<td>.10</td>
</tr>
<tr>
<td>2 MG/M3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHYL ETHYL KETOXIME</td>
<td>MIXTURE</td>
<td>.05</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Potential Health Effects

EYE:
MAY CAUSE EYE IRRITATION. DIRECT CONTACT MAY CAUSE STINGING, TEARING AND REDNESS.

SKIN:
**WARNING** AVOID ALL CONTACT WITH SKIN. PENETRATES SKIN READILY. ANY CONTACT MAY RESULT IN THE ABSORPTION OF
POTENTIALLY HARMFUL AMOUNTS WHICH CAN CAUSE DAMAGE TO THE KIDNEYS, LIVER, BLOOD AND/OR BONE MARROW.

INGESTION:
MODERATELY TOXIC. MAY CAUSE MOUTH, THROAT, ESOPHAGUS AND STOMACH IRRITATION, NAUSEA, VOMITING AND DIARRHEA. ASPIRATION
OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.
INHALATION:
HIGH VAPOR/AEROSOL CONCENTRATIONS (GREATER THAN APPROXIMATELY 1000 PPM) ARE IRRITATING TO THE EYES AND THE RESPIRATORY TRACT, MAY CAUSE HEADACHES, DIZZINESS, ANESTHESIA, DROWSINESS, UNCONSCIOUSNESS, AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DEATH.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
OVEREXPOSURE TO VAPOR, DUST OR MIST MAY AGGRAVATE EXISTING RESPIRATORY CONDITIONS, SUCH AS ASTHMA, BRONCHITIS, AND INFLAMMATORY OR FIBROTIC RESPIRATORY DISEASE.

CHRONIC (CANCER) INFORMATION:
INFORMATION NOT AVAILABLE

TERATOLOGY (BIRTH DEFECT) INFORMATION:
INFORMATION NOT AVAILABLE

REPRODUCTION INFORMATION:
INFORMATION NOT AVAILABLE

CARCINOGENICITY: NTP CARCINOGEN: NO
IARC MONOGRAPHS: NO
OSHA REGULATED: NO

4. FIRST AID MEASURES

EYES:
FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

SKIN:
WASH CONTAMINATED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

INGESTION:
IF SWALLOWED, GIVE 2 GLASSES OF WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEE A PHYSICIAN.

INHALATION:
RESCUERS SHOULD PUT ON APPROPRIATE PROTECTIVE GEAR. REMOVE FROM AREA OF EXPOSURE. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. KEEP VICTIM WARM. GET IMMEDIATE MEDICAL ATTENTION.

NOTE TO PHYSICIANS:
ASPIRATION MAY CAUSE SEVERE LUNG DAMAGE. EVACUATE STOMACH IN A WAY WHICH AVOIDS ASPIRATION. CONTAINS TOLEUENE. ALCOHOL MAY ENHANCE TOXIC EFFECTS. STIMULANTS SUCH AS EPINEPHRINE MAY INDUCE VENTRICULAR FIBRILLATION. THE METABOLISM OF OTHER SOLVENTS MAY BE INHIBITED RESULTING IN A POTENTIATION OF TOXIC EFFECTS OF THOSE CHEMICALS. UPTAKE IS DIRECTLY PROPORTIONAL TO THE AMOUNT OF BODY FAT. BLOOD LEVELS MAY BE CUMULATIVE WHEN EXPOSURE IS EXTENDED.
5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:
FLASH POINT: 40F  Method: TCC
INFORMATION NOT AVAILABLE

FLAMMABLE LIMITS:
Lower flammable limit: 0.5
Upper flammable limit: 10.7

AUTOIGNITION TEMPERATURE:
INFORMATION NOT AVAILABLE

HAZARDOUS COMBUSTION PRODUCTS:
INFORMATION NOT AVAILABLE

EXTINGUISHING MEDIA:
FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG

FIREFIGHTING INSTRUCTIONS:
The use of self-contained breathing apparatus is recommended for fire fighters. Water spray may be used for cooling containers to prevent possible pressure build-up and autoignition or explosion when exposed to extreme heat. Avoid spreading burning liquid with water used for cooling.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:
Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with vermiculite or other inert material. Place in a container for chemical waste. If large spill, flush spill area with water spray and prevent runoff from entering drains, sewers, or streams.

LARGE SPILL:
If large spill, flush spill area with water spray and prevent runoff from entering drains, sewers, or streams.

7. HANDLING AND STORAGE

HANDLING:
STUDIES WITH RATS HAVE SHOWN A COMPONENT OF THIS MATERIAL TO HAVE MUTAGENIC EFFECTS.

REPORTS HAVE ASSOCIATED REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

STORAGE:
DO NOT STORE ABOVE 120 DEG.F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINERS CLOSED WHEN NOT IN USE AND UPRIGHT TO PREVENT LEAKAGE.

OTHER PRECAUTIONS:
AVOID CONTACT WITH SKIN OR EYES. WASH THOROUGHLY AFTER HANDLING.

HOT ORGANIC CHEMICAL VAPORS OR MISTS ARE SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED WITH AIR. IGNITION MAY OCCUR AT TEMPERATURES BELOW THOSE PUBLISHED IN THE LITERATURE AS "AUTOIGNITION" OR "IGNITION" TEMPERATURES. IGNITION TEMPERATURES DECREASE WITH INCREASING VAPOR VOLUME AND VAPOR/AIR CONTACT TIME, AND ARE INFLUENCED BY PRESSURE CHANGES.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:
USE LOCAL EXHAUST VENTILATION WIN A MINIMUM CAPTURE VELOCITY OF 100 FT/MIN. (0.5 M/SEC.) AT THE POINT OF VAPOR EVOLUTION. REFER TO THE CURRENT EDITION OF INDUSTRIAL VENTILATION: A MANUAL OF RECOMMENDED PRACTICE PUBLISHED BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS FOR INFORMATION ON THE DESIGN, INSTALLATION, USE, AND MAINTENANCE OF EXHAUST SYSTEMS.

RESPIRATORY PROTECTION:
DO NOT BREATHE VAPORS. WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS, WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) UNTIL VAPORS ARE EXHAUSTED. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE. OBSERVE OSHA STANDARD 29CFR 1910.134.

VENTILATION:
PROVIDE GENERAL CLEAN AIR DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP THE AIR CONTAMINANT CONCENTRATION BELOW THE LOWER EXPLOSION LIMIT AND BELOW CURRENT APPLICABLE EXPOSURE LIMITS. REFER TO OSHA STANDARD 1910.94.

SKIN PROTECTION:
USE SOLVENT IMPERMEABLE GLOVES TO AVOID CONTACT WITH PRODUCT.

EYE PROTECTION:
DO NOT GET IN EYES. USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS, CHEMICAL GOGGLES, FACE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
AVOID CONTACT WITH SKIN. USE PROTECTIVE CLOTHING. PREVENT CONTACT WITH CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING, INCLUDING SHOES, BEFORE REUSE.
WORK/HYGIENIC PRACTICES
WASH AT THE END OF EACH WORKSHIFT AND BEFORE EATING, SMOKING, OR USING THE TOILET. USE APPROPRIATE HAND AND SKIN LOTIONS TO PROTECT THE SKIN.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **BOILING POINT**: 210-290°F
- **MELTING POINT**: INFORMATION NOT AVAILABLE
- **VAPOR PRESSURE**: INFORMATION NOT AVAILABLE
- **VAPOR DENSITY**: HEAVIER THAN AIR
- **SOLUBILITY IN WATER**: INSOLUBLE
- **SPECIFIC GRAVITY**: .96
- **EVAPORATION RATE**: SLOWER THAN BUTYL ACETATE
- **pH**: INFORMATION NOT AVAILABLE
- **ODOR**: INFORMATION NOT AVAILABLE
- **APPEARANCE**: INFORMATION NOT AVAILABLE

10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY (CONDITIONS TO AVOID):**
STABLE

**INCOMPATIBILITY:**
STRONG ACIDS AND STRONG OXIDIZING AGENTS.

**CONDITIONS TO AVOID:**
ELEVATED TEMPERATURES

**SOURCES OF IGNITION**

**HAZARDOUS DECOMPOSITION PRODUCTS:**
INFORMATION NOT AVAILABLE

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION

**EYE:**
INFORMATION NOT AVAILABLE

**SKIN:**
INFORMATION NOT AVAILABLE

**INGESTION:**
INFORMATION NOT AVAILABLE
**MATERIAL SAFETY DATA SHEET**

Date Printed: 12/15/2010

Product Code: 1700F150
Product Name: 1700F150 HI TEMP ALUM #7

A.P. NONWEILER COMPANY, 3321 COUNTY ROAD A, P.O. BOX 1007, OSHKOSH, WI 54903-1007

24-hour Emergency Phone: 1-800-535-5053

**INHALATION:**
INFORMATION NOT AVAILABLE

**SUBCHRONIC:** INFORMATION NOT AVAILABLE

**CHRONIC/CARCINOGENICITY:** INFORMATION NOT AVAILABLE

**TERATOLOGY:** INFORMATION NOT AVAILABLE

**REPRODUCTION:** INFORMATION NOT AVAILABLE

**MUTAGENICITY:** INFORMATION NOT AVAILABLE

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** INFORMATION NOT AVAILABLE

**CHEMICAL FATE INFORMATION:**

**13. DISPOSAL CONSIDERATIONS**

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. INCINERATE IN APPROVED FACILITY.

**14. TRANSPORT INFORMATION (Not meant to be all inclusive)**

US DOT HAZARD CLASS: 3 UN1263 FLAMMABLE

**15. REGULATORY INFORMATION**
(Not meant to be all inclusive - selected regulations represented)

**U.S. FEDERAL REGULATIONS:**
INFORMATION NOT AVAILABLE

**OSHA:**
INFORMATION NOT AVAILABLE

**CERCLA: SARA HAZARD CATEGORY:**
INFORMATION NOT AVAILABLE

**SECTION 313:**
INFORMATION NOT AVAILABLE

<table>
<thead>
<tr>
<th>Component/Exposure Limits</th>
<th>CAS#</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIXED XYLENES (LIMITED PARAXYLENE CONTENT), ETHYLacenZENE</td>
<td>1330-20-7</td>
<td>17.53</td>
</tr>
<tr>
<td>100 PPM TWA OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MINERAL SPIRITS</td>
<td>64742-88-7</td>
<td>17.30</td>
</tr>
<tr>
<td>100 PPM ACGIH TLV</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Product Code: 1700F150
Product Name: 1700F150 HI TEMP ALUM #7

A. P. NONWEILER COMPANY, 3321 COUNTY ROAD A, P. O. BOX 1007, OSHKOSH, WI 54903-1007

24-hour Emergency Phone: 1-800-535-5053

MATERIAL SAFETY DATA SHEET

Date Printed: 12/15/2010 Page: 7

500 PPM OSHA PEL

TOLUENE

200 PPM TWA OSHA
300 PPM CEIL OSHA
500 PPM PEAK OSHA

COBALT ALKANOATE SOLUTION

2 MG/M3

TOXIC SUBSTANCES CONTROL ACT: INFORMATION NOT AVAILABLE

<table>
<thead>
<tr>
<th>Component/Exposure Limits</th>
<th>CAS#</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>12.78</td>
</tr>
</tbody>
</table>

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS:
INFORMATION NOT AVAILABLE

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): INFORMATION NOT AVAILABLE

EINECS: ALL COMPONENTS OF THIS PRODUCT ARE INCLUDED IN THE EUROPEAN INVENTORY OF EXIST (EINECS) OR ARE POLYMERS OF WHICH THE COMPONENTS ARE IN EINECS, IN COMPLIANCE WITH COUNCIL DIRECTIVE 67/548/EEC AND ITS AMENDMENTS.

STATE REGULATIONS:

NEW JERSEY
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT:

<table>
<thead>
<tr>
<th>Component/Exposure Limits</th>
<th>CAS#</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIXED XYLENES (LIMITED PARAXYLENE CONTENT), ETHYLBENZENE</td>
<td>1330-20-7</td>
<td>17.53</td>
</tr>
<tr>
<td>100 PPM TWA OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MINERAL SPIRITS</td>
<td>64742-88-7</td>
<td>17.30</td>
</tr>
<tr>
<td>100 PPM ACGIH TLV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500 PPM OSHA PEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>12.78</td>
</tr>
<tr>
<td>200 PPM TWA OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 PPM CEIL OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500 PPM PEAK OSHA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pennsylvania
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%:

<table>
<thead>
<tr>
<th>Component/Exposure Limits</th>
<th>CAS#</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Product Code: 1700F150
Product Name: 1700F150 HI TEMP ALUM #7

A.P. NONWEILER COMPANY, 3321 COUNTY ROAD A, P.O. BOX 1007, OSHKOSH, WI 54903-1007

24-hour Emergency Phone: 1-800-535-5053

<table>
<thead>
<tr>
<th>Component/Exposure Limits</th>
<th>CAS#</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILICONE MODIFIED LONG OIL ALKYD MIXTURE</td>
<td>44.37</td>
<td></td>
</tr>
<tr>
<td>100 PPM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIXED XYLENES (LIMITED PARAXYLENE CONTENT), ETHYLBENZENE 1330-20-7 17.53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 PPM TWA OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOLUENE 108-88-3 12.78</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200 PPM TWA OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 PPM CEIL OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500 PPM PEAK OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COBALT ALKANATE SOLUTION 8020-83-5 .10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 MG</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VOLATILE ORGANIC COMPOUNDS: 3.81 lb/gl

16. OTHER INFORMATION

MSDS Status: INFORMATION NOT AVAILABLE

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

The following boilerplate keys do not have matching boilerplate key prefixes in the MSDS Master Format file:
EF01
NP02

*********************************************************************************************************