**MATERIAL SAFETY DATA SHEET**

**Date Printed:** 12/15/2010

**Product Code:** 1700F077

**Product Name:** 1700F077 HIGH HEAT GRAY

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

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

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**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

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**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></td>
<td></td>
</tr>
<tr>
<td>100 PPM</td>
<td>mixture</td>
<td>45.15</td>
</tr>
<tr>
<td>MINERAL SPIRITS</td>
<td>64742-88-7</td>
<td>17.67</td>
</tr>
<tr>
<td>100 PPM ACGIN TLV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500 PPM OSHA PEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* MIXED XYLENES (LIMITED PARAXYLENE CONTENT), ETHYL BENZENE</td>
<td>1330-20-7</td>
<td>12.66</td>
</tr>
<tr>
<td>100 PPM TWA OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HYDROUS MANGANISUM SILICATE MINERAL</td>
<td>14807-96-6</td>
<td>9.37</td>
</tr>
<tr>
<td>2 MG/M3 TWA RESPIRABLE DUST ACGIN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 MPPFC PEL OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>V.M.&amp;P. NAPTHA</td>
<td>64742-89-8</td>
<td>5.32</td>
</tr>
<tr>
<td>300 PPM OSHA TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>400 PPM OSHA STEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* SYNTHETIC AMPHOROUS SILICA</td>
<td>63231-67-4</td>
<td>.85</td>
</tr>
<tr>
<td>6 MG/M3 PEL OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZIRCONIUM 2-ETHYLHEXANOATE SOLUTION</td>
<td>mixture</td>
<td>.79</td>
</tr>
<tr>
<td>5 MG/M3 AS Zr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* SOL. OF SALTOP UNSATURATED AMIDES AND HIGHER WEIGHT ACIDIC ESTERS</td>
<td>proprietary</td>
<td>.34</td>
</tr>
<tr>
<td>COBALT ALKANOATE SOLUTION</td>
<td>8020-83-5</td>
<td>.03</td>
</tr>
<tr>
<td>2 MG/M3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHYL ETHYL KETOXIME</td>
<td>mixture</td>
<td>.01</td>
</tr>
</tbody>
</table>

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**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:
5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 54F 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 FOAM

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 MUTANOGENIC 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.

INHALATION OF VERY HIGH CONCENTRATIONS OF FINELY DIVIDED RESPIRABLE CRYSTALLINE SILICA DUST MAY CAUSE A RAPIDLY DEVELOPING SILICOSIS OR CANCER.

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 WITH 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.
9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 210-290F
MELTING POINT: INFORMATION NOT AVAILABLE
VAPOR PRESSURE: INFORMATION NOT AVAILABLE
VAPOR DENSITY: HEAVIER THAN AIR
SOLUBILITY IN WATER: INSOLUBLE
SPECIFIC GRAVITY: 1.21
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

PROJECTS OF IGNITION

HAZARDOUS DECOMPOSITION PRODUCTS:
INFORMATION NOT AVAILABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION

EYE:
INFORMATION NOT AVAILABLE
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SKIN:
INFORMATION NOT AVAILABLE

INGESTION:
INFORMATION NOT AVAILABLE

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
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Component/Exposure Limits CAS# % by Wt.

MINERAL SPIRITS 64742-88-7 17.67
  100 PPM ACGIH TLV
  500 PPM OSHA PEL
MIXED XYLENOES (LIMITED PARAXYLENE CONTENT), ETHYLBENZENE 1330-20-7 12.66
  100 PPM TWA OSHA
COBALT ALKANOCATE SOLUTION 8020-83-5 .03
  2 MG/M3

TOXIC SUBSTANCES CONTROL ACT: INFORMATION NOT AVAILABLE

Component/Exposure Limits CAS# % by Wt.

*** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT ***

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:

Component/Exposure Limits CAS# % by Wt.

MINERAL SPIRITS 64742-88-7 17.67
  100 PPM ACGIH TLV
  500 PPM OSHA PEL
MIXED XYLENOES (LIMITED PARAXYLENE CONTENT), ETHYLBENZENE 1330-20-7 12.66
  100 PPM TWA OSHA

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

Component/Exposure Limits CAS# % by Wt.

SILICONE MODIFIED LONG OIL ALKYD MIXTURE 45.15
  100 PPM
MIXED XYLENOES (LIMITED PARAXYLENE CONTENT), ETHYLBENZENE 1330-20-7 12.66
  100 PPM TWA OSHA
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**CALIFORNIA**

THE CHEMICAL(S) NOTED BELOW AND CONTAINED IN THIS PRODUCT, ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER:

<table>
<thead>
<tr>
<th>Component/Exposure Limits</th>
<th>CAS#</th>
<th>% by Wt.</th>
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<tbody>
<tr>
<td>MIXED XYLENES{LIMITED PARAXYLENE CONTENT}, ETHYLBENZENE</td>
<td>1330-20-7</td>
<td>12.66</td>
</tr>
<tr>
<td>100 PPM TWA OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COBALT ALKANOATE SOLUTION</td>
<td>8020-83-5</td>
<td>.03</td>
</tr>
<tr>
<td>2 MG\M3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**VOLATILE ORGANIC COMPOUNDS: 3.61 lb/gl**

**16. OTHER INFORMATION**

**MSDS Status:** INFORMATION NOT AVAILABLE

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