U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

Required under USDAL Safety and Health Regulations for Ship Repairing,

SECTION I

MANUFACTURER'S NAME
WALLINCKROOT, INC.

EMERGENCY TELEPHONE NO.
606/787-7000

ADDRESS [Number, Street-City-State-and-ZIP code]
1979 Box M Paris, Kentucky 40361

CHEMICAL NAME AND SYNONYMS
Iron Nitrate Nonahydrate

CHEMICAL FAMILY
Inorganic salt

FORMULA
Fe(NO₃)₃·9H₂O

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS % TLV (Units) ALLOYS AND METALLIC COATINGS % TLV (Units)
PIGMENTS BASE METAL
CATALYST ALLOYS
VEHICLE METALLIC COATINGS
SOLVENTS FILLER METAL PLUS COATING OR CORE FLUX
ADDITIVES OTHERS
OTHERS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES % TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT KX

M.P. 47°C

SPECIFIC GRAVITY (H₂O=1) 1.68

VAPOR PRESSURE (mm Hg.)

PERCENT VOLATILE BY VOLUME (%)

VAPOR DENSITY (AIR=1)

EVAPORATION RATE (_________ +1)

SOLUBILITY IN WATER Very soluble

APPEARANCE AND ODOR Gravish-white to pale violet crystals; odor of nitric acid(slight)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) FLAMMABLE LIMITS LELUEL

EXTINGUISHING MEDIA Water CO₂, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES Use a self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS
A strong oxidizer. May react violently with some reducing materials causing fire
or explosion.

(Continued on reverse side)
SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
None indicated. LD50 Oral (RAT) = 3250 mg/kg.

EFFECTS OF OVEREXPOSURE
Moderate irritant to the skin. Ingestion of large amounts of nitrates causes dizziness, abdominal cramps, vomiting, diarrhea, weakness, convulsions.

EMERGENCY AND FIRST AID PROCEDURES
Skin: Wash contact areas with copious amount of water. Eyes: Flush with water for 15 minutes. Consult Ophthalmologist. Ingestion: Induce vomiting and consult physician.

SECTION VI - REACTIVITY DATA

| STABILITY    | UNSTABLE | CONDITIONS TO AVOID
|--------------|----------|---------------------
| STABLE       |          | X                   |

INCOMPATABILITY (Materials to avoid)
Reducing agents
HAZARDOUS DECOMPOSITION PRODUCTS
Oxides of Nitrogen when heated to decomposition.

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<th>HAZARDOUS POLYMERIZATION</th>
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<th>CONDITIONS TO AVOID</th>
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SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Carefully sweep up and dissolve in a large amount of water. Add Soda Ash to neutralize and decant or siphon to sewer with excess water. Send sludge to landfill licensed to accept the material.

WASTE DISPOSAL METHOD
1) See above spill procedure.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
Dust mask (NIOSH approved)

VENTILATION
LOCAL EXHAUST
SPECIAL
MECHANICAL (General)
OTHER

PROTECTIVE GLOVES
Rubber
X
OTHER PROTECTIVE EQUIPMENT
Lab coat or coveralls
EYE PROTECTION
Safety goggles

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store in a cool, dry place in well closed containers.

OTHER PRECAUTIONS