

5. FIRE AND EXPLOSION HAZARD DATA

METHOD: None

FLAMMABLE LIMITS IN AIR

- LOWER (%): None
 - UPPER (%): None

SENSITIVITY TO MECHANICAL IMPACT(Y/N): NO
SENSITIVITY TO STATIC DISCHARGE: Sensitivity to static discharge is not expected.
SUITABLE EXTINGUISHING MEDIA: Carbon dioxide. Foam. As appropriate for surrounding fire-product is mostly water and will not burn.
FIRE FIGHTING PROCEDURES: Wear self-contained breathing equipment and rubber protective clothing.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

SMALL SPILLS: Pick up with absorbant material.
LARGE SPILLS: Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.

PERSONAL PRECAUTIONS: NA
ENVIRONMENTAL PRECAUTIONS: NA
METHODS FOR CLEANING UP: NA

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: DANGER: Corrosive liquid and vapors. Avoid contact with skin and eyes. Keep container closed when not in use.
OTHER PRECAUTIONS: No other spill procedures necessary.
SPECIFIC USE(S): NA

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS: Use in a well ventilated area.
RESPIRATORY PROTECTION: None normally required. Not normally required. If mist or vapors in air exceed exposure limit, use NIOSH approved organic vapor respirator.
PROTECTIVE GLOVES: Neoprene. Rubber gloves. PVC.
EYE PROTECTION: Face shield. Goggles.
OTHER PERSONAL PROTECTION EQUIPMENT: Eyewash fountains and safety showers must be easily accessible.
VENTILATION: General mechanical and/or local exhaust as needed if mist or vapors cause irritation.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear. Dark brown liquid.
BOILING POINT (F): > 212 F (C) NA
VAPOR PRESSURE: ND
VAPOR DENSITY (AIR=1): ND
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY: 1.405 - 1.415
VOC Content (%): NE
VOV Content (%): NE
EVAPORATION RATE: Approximately 1
PH: NE

10. STABILITY AND REACTIVITY

STABILITY DATA: STABLE
POLYMERIZATION: Will Not Occur.
HAZARDOUS DECOMPOSITION: Oxides of Carbon. Oxides of Nitrogen. Oxides of Phosphorus.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong alkalis. Organic matter.
CONDITIONS/HAZARDS TO AVOID: Freezing conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: NE
EFFECTS OF CHRONIC EXPOSURE: NE
OTHER TOXIC EFFECTS: NE

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data at this time
CHEMICAL FATE INFORMATION: No data at this time.
MOBILITY: NA
PERSISTENCE/DEGRADABILITY: NA
BIOACCUMULATIVE POTENTIAL: NA
OTHER ADVERSE EFFECTS: NA

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose in accordance with Federal, State and Local regulations.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
Ferric Sulfate 10028-22-5	< 40	Listed	Not Listed	Listed	Not Listed
AMMONIUM BIFLUORIDE 1341-49-7	< 10	Listed	Listed	Listed	Not Listed
Nitric acid 7697-37-2	< 20	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Ferric Sulfate 10028-22-5	< 40	1000 lb 454 kg	Not Listed	Not Listed
AMMONIUM BIFLUORIDE 1341-49-7	< 10	100 lb 45.4 kg	Not Listed	Not Listed
Nitric acid 7697-37-2	< 20	1000 lb 454 kg	1000 lb RQ Listed	Listed

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PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Ferric Sulfate 10028-22-5	< 40	Listed
AMMONIUM BIFLUORIDE 1341-49-7	< 10	Listed
Nitric acid 7697-37-2	< 20	Listed

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	MARTK:
Ferric Sulfate 10028-22-5	< 40	Listed
AMMONIUM BIFLUORIDE 1341-49-7	< 10	Listed
Nitric acid 7697-37-2	< 20	Listed

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	NJRTK:
Ferric Sulfate 10028-22-5	< 40	Listed
AMMONIUM BIFLUORIDE 1341-49-7	< 10	Listed
Nitric acid 7697-37-2	< 20	Listed

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	PARTK:
Ferric Sulfate 10028-22-5	< 40	Listed
AMMONIUM BIFLUORIDE 1341-49-7	< 10	Listed
Nitric acid 7697-37-2	< 20	Listed

16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

*** END OF MSDS ***