

Revision Number: 003.0 Issue date: 07/21/2014

1. PRODUCT AND COMPANY IDENTIFICATION

REAGENT SOLUTION 705 AT-02 MTO Product name: IDH number: 595691

Product type: Auxiliary product Restriction of Use: None identified Region: **United States**

Company address: **Contact information:**

Henkel Corporation Telephone: +1 (860) 571-5100

One Henkel Wav MEDICAL EMERGENCY Phone: Poison Control Center Rocky Hill, Connecticut 06067 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC

1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW DANGER: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1C
SERIOUS EYE DAMAGE	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



Precautionary Statements

Prevention: Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Use only outdoors or in

a well-ventilated area. Wear protective gloves, eye protection, and face protection. Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off

immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Immediately call a poison control center or

physician. Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Storage: Disposal:

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
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Ferric nitrate 10421-48-4 30 - 60

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If not

breathing, give artificial respiration. Get medical attention.

Skin contact: In case of contact, immediately remove contaminated clothing and flush skin

with copious amounts of water. Get medical attention.

Eye contact: Immediately flush eyes with water for at least 15 minutes, while holding

eyelids open. Seek medical attention at once.

Ingestion: Call a physician immediately. DO NOT induce vomiting unless directed to do

so by medical personnel. Never give anything by mouth to a victim who is

unconscious or is having convulsions.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Extinguishing media: Use water only. Do not use dry chemicals, carbon dioxide, or foam.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: This product is an aqueous mixture which will not burn. This product is an

oxidizing agent and is a serious fire and explosion risk. Do not permit contact

with combustible, organic, or other oxidizable materials.

Hazardous combustion products: Irritating and/or toxic fumes and gases may be emitted upon the product's

decomposition.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter

drains.

Clean-up methods: Wear suitable protective clothing, gloves and eye/face protection. Collect

spilled material with an inert absorbent such as sand or vermiculite. Place in

properly labeled closed container.

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact.

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Storage: Do not store around flammable or combustible materials.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

^{*} Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ferric nitrate	1 mg/m3 TWA (as Fe)	None	None	None

Engineering controls: Ventilation should effectively remove and prevent buildup of any

vapor/mist/fume/dust generated from the handling of this product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of

vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must

be provided.

Eye/face protection: Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Wear impervious gloves for prolonged contact. Gloves should be tested to

determine suitability for prolonged contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:Light brownOdor:NoneOdor threshold:Not available.

pH: < 1

Vapor pressure:

Not determined

Boiling point/range:

Melting point/ range:

Specific gravity:

Vapor density:

Flash point:

Not determined

212 °F (100°C) None

Not available.

1.32 at 25 °C (77°F)

Not available.

100 °C (212°F) None

Flammable/Explosive limits - lower: Not applicable Not applicable Flammable/Explosive limits - upper: Autoignition temperature: Not available. **Evaporation rate:** Not available. Solubility in water: fully soluble Partition coefficient (n-octanol/water): Not available. **VOC** content: Not applicable Not available. Viscosity: **Decomposition temperature:** Not available.

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: None under normal processing.

Hazardous decomposition

products:

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

Incompatible materials: Keep away from organic and combustible materials.

Reactivity: This product may react with strong alkalies.

Conditions to avoid: This product is an OXIDIZING AGENT - avoid contact with organic material. High

temperatures.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation: This product is irritating to the respiratory system.

Skin contact: This product is severely irritating to the skin and may cause burns. **Eye contact:** Contact with this product may cause severe eye damage.

Ingestion: Ingestion of this product may cause nausea, vomiting and diarrhe

Ingestion of this product may cause nausea, vomiting and diarrhea. This product may cause methemoglobinemia characterized by a reduction in oxygen carrying capacity of the blood with symptoms including headache, dizziness, flushed face, fatigue, nausea, vomiting, drowsiness,

stupor, tremors, uneven heart action, coma and rarely death.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Ferric nitrate	Oral LD50 (RAT) = 3,250 mg/kg	Central nervous system, Eyes, Gastrointestinal, Irritant, Lung, Metabolic, Vascular

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ferric nitrate	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:No data available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: Wastes must be tested using methods described in 40 CFR Part 261 to

determine if it meets applicable definitions of hazardous wastes.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Ferric(III) nitrate)

Hazard class or division:

Identification number:

Packing group:

DOT Hazardous Substance(s):

UN 3264

UN 3264

III

Ferric nitrate

International Air Transportation (ICAO/IATA)

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Ferric(III) nitrate)

Hazard class or division: 8
Identification number: UN 3264
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Ferric(III) nitrate)

Hazard class or division: 8
Identification number: UN 3264
Packing group: III

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15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA Section 313:

None above reporting de minimis
Immediate Health, Reactive
None above reporting de minimis

CERCLA Reportable quantity: Ferric nitrate (CAS# 10421-48-4) 1,000 lbs. (454 kg)

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Jennifer Mckay, Regulatory Affairs Specialist

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