

Revision Number: 003.0 Issue date: 07/11/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:TITRATING SOLUTION 61 (4 L)IDH number:592441Product type:Auxiliary productItem number:592441Restriction of Use:None identifiedRegion:United States

Company address: Henkel Corporation 32100 Stephenson Highway Madison Heights, MI 48071

Telephone: 248.583.9300
MEDICAL EMERGENCY Phone: Poison Control Center
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

Contact information:

2. HAZARDS IDENTIFICATION

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

| HAZARD CLASS | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN CORROSION | 1C |
| SERIOUS EYE DAMAGE | 1 |

PICTOGRAM(S)



Precautionary Statements

Prevention: Do not breathe vapors, mist, or spray. Wash thoroughly after handling. 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 do. Continue rinsing. Immediately call a poison control center or physician.

Wash contaminated clothing before reuse.

Storage: Store locked up.

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* |
|------------------------|------------|-------------|
| Hydrochloric acid | 7647-01-0 | 0.1 - 1 |

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

4. FIRST AID MEASURES

Inhalation: If mist or vapor of this product is inhaled, remove person immediately to fresh

air. Seek medical attention if symptoms develop or persist.

Skin contact: Remove contaminated clothing and footwear. For skin contact, flush with large

amounts of water. Seek immediate medical attention. Launder contaminated

clothing before reuse.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15

minutes, and seek immediate medical attention.

Ingestion: Get immediate medical attention. Do not induce vomiting. Give one to two

glasses of water or milk. 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 media appropriate for surrounding material.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

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

to form flammable hydrogen gas.

Hazardous combustion products: Upon combustion, oxides of chlorine may be released.

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. Wear appropriate

protective equipment and clothing during clean-up.

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for

disposal. Dispose of according to Federal, State and local governmental

regulations. Ventilate area.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of

this product. Wash thoroughly after handling. Provide adequate ventilation. Do

not take internally. For industrial use only.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials.

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

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 |
|------------------------|---------------|----------------------------|-----------|-------|
| Hydrochloric acid | 2 ppm Ceiling | 5 ppm (7 mg/m3) Ceiling | None | None |

Engineering controls: Provide local and general exhaust ventilation to effectively remove and

prevent buildup of any vapors or mists generated from the handling of this

product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or

vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

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

Skin protection: Chemical resistant, impermeable gloves. Gloves should be tested to

determine suitability for prolonged contact. Use of impervious apron and boots

are recommended.

PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Colorless Color: Odor: **Pungent** Odor threshold: Not available. pH: < 2.0

Not determined Vapor pressure: Boiling point/range: 100 °C (212°F) Melting point/ range: Not available.

Specific gravity:

Vapor density: Not determined Flash point: Not applicable Flammable/Explosive limits - lower: Not applicable Flammable/Explosive limits - upper: Not applicable Autoignition temperature: Not applicable **Evaporation rate:** Not available. Solubility in water: Complete Partition coefficient (n-octanol/water): Not available. **VOC** content: Not applicable Viscosity: Not available.

10. STABILITY AND REACTIVITY

Not available.

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition

Decomposition temperature:

products:

Thermal decomposition may yield hydrogen chloride.

Do not mix with chlorates. Explosive HYDROGEN GAS may be released if aqueous solutions Incompatible materials:

of this material come into contact with reactive metals (IRON, ZINC, ALUMINUM).

Reactivity: This product may react with strong alkalies.

Conditions to avoid: Store away from incompatible materials.

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11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation: Mists, vapors or liquid may cause severe irritation or burns. Inhalation of mists or vapors may

produce upper airway edema, wheezing, pulmonary edema, pneumonitis and respiratory

failure.

Skin contact: This product is severely irritating to the skin and may cause burns.

Eye contact: This product is severely irritating to the eyes and may cause irreversible damage including

burns and blindness.

Ingestion: This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|------------------------|--|--------------------------------------|
| Hydrochloric acid | Oral LD50 (RABBIT) = 900 mg/kg Inhalation LC50 (RAT, 1 h) = | Irritant, Corrosive, Kidney |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|----------------|-----------------|---|
| Hydrochloric acid | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: This product, if discarded directly, would be a characteristic RCRA corrosive

waste (D002).

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: Hydrochloric acid

Hazard class or division:

Identification number:UN 1789Packing group:III

International Air Transportation (ICAO/IATA)

Proper shipping name: Hydrochloric acid

Hazard class or division: 8

Identification number:UN 1789Packing group:III

Water Transportation (IMO/IMDG)

Proper shipping name: HYDROCHLORIC ACID

Hazard class or division: 8
Identification number: UN 1789
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: None above reporting de minimis

CERCLA/SARA Section 311/312: Immediate Health

CERCLA/SARA Section 313: None above reporting de minimis

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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