

SAFETY DATA SHEET

Randolph Products Company

ACID DILUENT (SEE SPEC FOR MIX RATIO) - QUART

Date Printed: 12/2/2019

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1. Product and Company Identification

Product Name : ACID DILUENT (SEE SPEC FOR MIX RATIO) - QUART
Product Code : ACIDDILUE-QT
Recommended Use: Please refer to Product Information/Technical Data Sheet.

Company Identification:

Randolph Products Company
33 Haynes Circle
Chicopee, MA 01020

Information Phone: 413-592-4191
Emergency Phone: ChemTel 800-255-3924

2. Hazards Identification

EMERGENCY OVERVIEW

HAZARD CLASSIFICATION:

HIGHLY FLAMMABLE LIQUID, CATEGORY 2
ACUTE TOXICITY (ORAL), CATEGORY 3
SKIN CORROSION/IRRITATION, CATEGORY 1
EYE DAMAGE/IRRITATION, CATEGORY 1
CORROSIVE TO METALS, CATEGORY 1
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE, CATEGORY 3 (CENTRAL NERVOUS SYSTEM)
ASPIRATION HAZARD, CATEGORY 1

SIGNAL WORD:

DANGER



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HAZARD STATEMENTS:

HIGHLY FLAMMABLE LIQUID AND VAPOR
HARMFUL IF SWALLOWED

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
MAY BE CORROSIVE TO METALS
MAY CAUSE DROWSINESS OR DIZZINESS

PRECAUTIONARY STATEMENTS:

Do NOT induce vomiting.
Keep away from heat, sparks, open flame/hot surfaces.
No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting and other equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Store in a well ventilated place.
Keep cool.
Store locked up.
Do not breathe dusts or mists.
Wash hands thoroughly after handling.
Do not eat or drink while using this product.
If swallowed, immediately call a poison control center.
Rinse mouth.
Do NOT induce vomiting.
Wear protective gloves, protective clothing, eye/face protection.
If on skin, take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If in eyes, rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: get medical attention.
If inhaled, remove person to fresh air and keep comfortable for breathing.
Keep in original container.
Absorb spillage to prevent material damage.
Store in corrosive resistant container.

Potential Health Effects

Eye:

Causes severe burns and permanent eye damage. May cause corneal opacity (clouding of eye surface). Can cause burning sensation, tearing and redness. Can cause eye irritation.

Skin:

Prolonged or repeated contact may dry the skin and lead to irritation (i.e. dermatitis). Causes severe burns and

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possibly permanent skin damage. Can cause redness, itching and burning sensation. Causes skin irritation.

Ingestion:

Causes severe burns to the mouth, throat, and stomach. May cause nausea, vomiting, pain and stomach upset (e.g. diarrhea). Can cause dizziness, faintness, headache and incoordination. If swallowed, call a poison control center or physician if you feel unwell. Rinse mouth.

Inhalation:

Causes burns to the eyes, nose and respiratory tract. Can cause dizziness, breathing difficulty, headaches & loss of coordination. Nausea, vomiting, and stomach upset can occur. Can cause wheezing, coughing, shortness of breath, and tightness in the chest. May cause drowsiness or dizziness.

Chronic (Cancer) Information:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Teratology (Birth Defects) Information:

INFORMATION NOT AVAILABLE.

Reproduction Information:

INFORMATION NOT AVAILABLE.

Aggravation of Pre-Existing Conditions:

Dermatitis or other skin conditions.

3. Composition/Information on Ingredients

Component	CAS#	% by Wt.
ISOPROPYL ALCOHOL	67-63-0	65
ACGIH: 200 PPM TWA		
ACGIH: 400 PPM STEL		
OSHA: 400 PPM TWA		
OSHA: 500 PPM CEILING		

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PHOSPHORIC ACID	7664-38-2	16
ACGIH TLV: 1 mg/m3	TWA	
ACGIH STEL: 3 mg/m3		
OSHA PEL: 1 mg/m3	TWA	

4. First Aid Measures

Eyes:

Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. If easy to do, remove contact lenses. Get medical attention as soon as possible. Oils or ointments should not be used at this time. Do not attempt to neutralize with chemical agents. Continue the flushing for an additional 15 minutes if a physician is not immediately available. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Skin:

Immediately flush with plenty of water for at least 15 minutes. For large exposures use an emergency shower. Remove contaminated clothing and shoes. Get immediate medical attention. Professionally wash clothing before re-use. If on skin: wash with plenty of soap & water. If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Ingestion:

If swallowed: Immediately call a poison center/physician.
Do NOT induce vomiting.

Inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center/get medical attention if you feel unwell.

Note to Physicians:

Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy. HIGHLY ACIDIC MATERIAL! Can cause burns. There is danger of hemorrhage and perforation if lavage is performed. No attempt should be made to neutralize the acid with a base. Do not administer bicarbonate of soda by mouth.

5. Fire Fighting Measures

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Flammable Properties:

Flash Point: 53 F Method:

Explosive Limits:

Lower explosive limit: 2.0

Upper explosive limit: 12.0

Autoignition Temperature:

INFORMATION NOT AVAILABLE.

Hazardous Combustion Products:

Smoke, soot and carbon dioxide, carbon monoxide.

Extinguishing Media:

Dry chemical, CO₂, Halon, Foam

Firefighting Procedures:

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water spray. Vapors are heavier than air and can travel some distance away and flash back.

Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.

Precautions should be taken when pouring to minimize splash/free fall.

6. Accidental Release Measures

Small Spill:

See Information for Large Spill, below:

Large Spill:

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions:

INFORMATION NOT AVAILABLE.

Methods/Materials for Containment and Cleaning Up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/state/federal regulations.

7. Handling and Storage

Handling:

Keep away from heat, sparks, open flames, hot surfaces. NO SMOKING. Keep container tightly closed.

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Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/processing equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/eye protection/face protection.

Storage:

Prevent unauthorized access.
Store in a well ventilated place.
Keep container tightly closed.
Keep cool.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

SEE SECTION 3 FOR THIS INFORMATION

Engineering Controls:

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions.

Ventilation should be explosion proof.

Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, spray painting, mechanical generation of dusts, heating, drying, etc.

Personal Protective Equipment

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 CFR 1152, January 8, 1998. Respirator type: Organic Vapor.

Skin Protection:

Wear rubber boots and apron, protective clothing, and impervious gloves to prevent skin contact. An emergency shower should be readily available.

Eye Protection:

Wear chemical splash goggles and a full-face shield. An eye wash facility should be readily available.

9. Physical and Chemical Properties

Boiling Point: 180 F

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Melting Point:
INFORMATION NOT AVAILABLE.
Freezing Point: n/a

Vapor Pressure:
Information not available for mixture
Vapor Density:
HEAVIER THAN AIR
Solubility in Water:
NEGLIGIBLE
Evaporation Rate: SLOWER THAN ETHER

Specific Gravity: .908

Coating VOC: 5.96 lb/gl

Material VOC: 4.92 lb/gl

Odor:
Mild solvent odor.
Appearance:
Liquid.
Partition Coefficient:
INFORMATION NOT AVAILABLE.

10. Stability and Reactivity

Chemical Stability (Conditions to Avoid):
Stable under normal storage/use conditions.
Incompatibility:
Strong bases. Chemically active metals (i.e. nickel, cobalt, iron, copper, etc.) Amphoteric metals (i.e., copper, aluminum, zinc). Oxidizers. Acids.

Hazardous Decomposition Products:
INFORMATION NOT AVAILABLE.
Hazardous Polymerization:
Will not occur under normal conditions.

11. Toxicological Information

Eye Irritation/Damage:
Component 7664-38-2:
Serious eye damage, Category 1
Component 67-63-0:
Serious eye irritation, Category 2

Skin Irritation/Damage:

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Component 7664-38-2:

LD50: 1260 mg/kg, rat. Category 4

Extremely corrosive to skin, Category 1A

Component 67-63-0:

LD50: 12,800 mg/kg, rat. Not categorized.

Mild skin irritation, Not Categorized.

Acute Oral Toxicity:

Component 7664-38-2:

LD50: 2600 mg/kg, rat. Not categorized.

Component 67-63-0:

LD50: 5045 mg/kg, rat. Not categorized

Acute Inhalation Toxicity:

Component 7664-38-2:

LC50: 5.337 mg/l, rat. Category 3

Component 67-63-0:

LC50: 16000 ppmv, rat. Category 4

Respiratory/Skin Sensitization:

Component 7664-38-2:

No evidence of respiratory or skin sensitization.

Component 67-63-0:

No evidence of respiratory or skin sensitization.

Carcinogenicity:

Component 7664-38-2:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Component 67-63-0:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Reproductive Toxicity:

Component 7664-38-2:

No evidence of human reproductive toxicity.

Component 67-63-0:

No evidence of human reproductive toxicity.

Germ Cell Mutagenicity:

Component 7664-38-2:

No data

Component 67-63-0:

No data

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Aspiration Toxicity:

Component 7664-38-2:

Corrosive to respiratory tract.

Component 67-63-0:

Aspiration Hazard; Category 1

STOT-single exposure

Component 7664-38-2:

No data

Component 67-63-0:

No data

STOT-repeated exposure

Component 7664-38-2:

Corrosive to respiratory system, severe digestive tract burns, severe skin burns and eye damage, harmful if inhaled, harmful if swallowed.

Component 67-63-0:

No Data

Routes of Exposure:

Inhalation of vapors, skin/eye/mucous membrane absorption, ingestion.

12. Ecological Information

Environmental Toxicity:

Component 7664-38-2:

LC50: 75.1 mg/l (fish); EC50: 376 mg/l (daphnia); EC50: 32 mg/l (algae)

Component 67-63-0:

LC50: >1400 mg/l (fish)

Persistence & degradability:

Component 7664-38-2:

No data

Component 67-63-0:

No Data

Bioaccumulative potential:

Component 7664-38-2:

Bioaccumulation is unlikely.

Component 67-63-0:

No Data

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Mobility in soil:

Component 7664-38-2:

No data

Component 67-63-0:

No data

Other Adverse Ecological Effects:

No information

Component 7664-38-2:

Harmful to aquatic life with long lasting effects.

13. Disposal Considerations

Waste Disposal Method:

Discharge, treatment or disposal is subject to national, state, or local laws.

When a decision is made to discard this

material as supplied, it meets RCRA's characteristic definitions of ignitability and corrosivity. The toxicity

characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

Federal Regulations may apply to empty container. State and/or local regulations may be different.

Of the methods of disposal currently available, it is recommended that an alternative be selected according to the

following order of preference, based upon environmental acceptability: (1)

recycle or rework, if feasible; (2)

incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. Transport Information

Domestic (Land, DOT), International (Water, IMO/IMDG), International (Air, ICAO)

Road and Rail (ADR/RID), Air (ICAO/IATA), Vessel (IMO/IMDG):

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DOT (USA) Shipping Name: Flammable liquid, corrosive,
N.O.S. (phosphoric acid)
UN/NA ID No: UN2924
Hazard Class: Class 3,8 (IATA/49CFR)
Packing Group: II

Environmental Hazards:

INFORMATION NOT AVAILABLE.

Marine Pollutant:

Components of this product do not appear on the list of Marine Pollutants (49CFR 172.101)

Special Precautions for User:

INFORMATION NOT AVAILABLE.

15. Regulatory Information

U.S. Federal Regulations:

TSCA: All components of this material are on the
US TSCA 8(b) Inventory or are exempt from listing.

OSHA:

This product is hazardous under OSHA's Hazard Communication Std. Not regarded
as a health hazard under current
legislation.

CERCLA: SARA Hazard Category:

INFORMATION NOT AVAILABLE.

Section 313:

"*" Indicates toxic chemical(s) subject to the reporting requirements of
section 313 of Title III and of 40 CFR 372.

International Regulations:

Canadian WHMIS:

INFORMATION NOT AVAILABLE.

Canadian Environmental Protection Act (CEPA):

INFORMATION NOT AVAILABLE.

EINECS:

INFORMATION NOT AVAILABLE.

State Regulations:

INFORMATION NOT AVAILABLE.

Volatile Organic Compounds:

COATING VOC content is being expressed as mass of VOC per unit volume of
coating less water and exempt solvents, where
applicable.

MATERIAL VOC content is the actual weight of VOC per unit volume.

16. Other Information

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Prepared By: Regulatory Compliance

Information Contact: Regulatory Compliance 413-592-4191 ext 106

Manufacturer Disclaimer:

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate.

However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. These data relate only to the specific material designated herein and do not relate to use in combination with any other material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

End of Material Safety Data Sheet