

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.27.2018

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Poly D Tac SF

SECTION 1: Identification

Product identifier

Product name: Poly D Tac SF

Product code: 409245SS

Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

AquaPhoenix Scientific
860 Gitts Run Road
Hanover
PA 17331
(717) 632-1291

Emergency telephone number:

United States

Emergency Telephone No.: 800-255-3924

SECTION 2: Hazard(s) identification

GHS classification:

Skin corrosion, category 1

Serious eye damage, category 1

Germ cell mutagenicity, category 2

Carcinogenicity, category 1A

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H318 Causes serious eye damage.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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P281 Use personal protective equipment as required.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see supplemental first aid instruction on this label).
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 If exposed or concerned: Get medical advice/attention
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

| Identification | Name | Weight % |
|--------------------------|-------------------|----------|
| CAS number: 7647-01-0 | Hydrochloric acid | <1 |
| CAS number: 50-00-0 | Formaldehyde | <0.6 |

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
Remove contact lenses, if present and easy to do
Continue rinsing
Get medical advice/attention
Remove contact lens(es) if able to do so during rinsing
Immediately call a POISON CONTROL CENTER or seek medical attention

After swallowing:

Rinse mouth and then drink plenty of water
Do not induce vomiting
Get medical advice/attention if you feel unwell

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

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Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Heating causes a rise in pressure, risk of bursting and combustion

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only with adequate ventilation.

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Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Store away from foodstuffs.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

| Country (Legal Basis) | Substance | Identifier | Permissible concentration |
|-----------------------|-------------------|------------|-------------------------------------|
| ACGIH | Hydrochloric acid | 7647-01-0 | ACGIH TLV C 2.0 ppm |
| | Formaldehyde | 50-00-0 | ACGIH TLV 0.3 ppm (ceiling) |
| United States (OSHA) | Hydrochloric acid | 7647-01-0 | OSHA PEL C 5.0 ppm |
| | Hydrochloric acid | 7647-01-0 | OSHA PEL C 7.0 mg/m ³ |
| | Formaldehyde | 50-00-0 | OSHA PEL TWA 0.75 mg/m ³ |
| | Formaldehyde | 50-00-0 | OSHA STEL 2 ppm |
| NIOSH | Hydrochloric acid | 7647-01-0 | NIOSH REL C 5.0 ppm |
| | Hydrochloric acid | 7647-01-0 | NIOSH REL C 7.0 mg/m ³ |
| | Formaldehyde | 50-00-0 | NIOSH REL TWA 0.016 ppm |
| | Formaldehyde | 50-00-0 | NIOSH REL C 0.1 ppm |

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|------------|----------------------------------|
| Appearance | Yellow liquid. |
| Odor | Not determined or not available. |

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| | |
|---|----------------------------------|
| Odor threshold | Not determined or not available. |
| pH | 1.1-1.9 |
| Melting point/freezing point | -3 °C (Freezing Point) |
| Initial boiling point/range | Not determined or not available. |
| Flash point (closed cup) | Not determined or not available. |
| Evaporation rate | Not determined or not available. |
| Flammability (solid, gas) | Not determined or not available. |
| Upper flammability/explosive limit | Not determined or not available. |
| Lower flammability/explosive limit | Not determined or not available. |
| Vapor pressure | Not determined or not available. |
| Vapor density | Not determined or not available. |
| Density | Not determined or not available. |
| Relative density | 1.04-1.06 |
| Solubilities | Not determined or not available. |
| Partition coefficient (n-octanol/water) | Not determined or not available. |
| Auto/Self-ignition temperature | Not determined or not available. |
| Decomposition temperature | Not determined or not available. |
| Dynamic viscosity | Not determined or not available. |
| Kinematic viscosity | Not determined or not available. |
| Explosive properties | Not determined or not available. |
| Oxidizing properties | Not determined or not available. |

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

Hazardous polymerization does not occur.

Conditions to avoid:

None known.

Incompatible materials:

Oxidizing agents.

Hazardous decomposition products:

Burning of the dried material can produce: hydrogen chloride gas, nitrogen oxides (NOx) and carbon oxides (COx). No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

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| Name | Route | Result |
|-------------------|------------|-------------------------------|
| Hydrochloric acid | inhalation | LC50 - Mouse - 1,108 ppm / 1h |
| | oral | LD50 Rabbit: 900 mg/kg |
| Formaldehyde | oral | LD50 - Guinea Pig - 260 mg/kg |
| | dermal | LD50 - Rabbit - 270 µL/kg |

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

| Name | Result |
|-------------------|--|
| Hydrochloric acid | Causes severe skin burns and eye damage. |
| Formaldehyde | Causes skin corrosion. |

Serious eye damage/irritation

Assessment: Causes serious eye damage

Product data: No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

| Name | Result |
|--------------|--|
| Formaldehyde | May cause sensitization by skin contact. |

Carcinogenicity

Assessment: May cause cancer

Product data: No data available.

Substance data:

| Name | Species | Result |
|--------------|-----------------------------|--------|
| Formaldehyde | Component may cause cancer. | |

International Agency for Research on Cancer (IARC):

| Name | Classification |
|-------------------|--|
| Hydrochloric acid | Group 3 - Not classifiable as to its carcinogenicity to humans |
| Formaldehyde | Group 1 - Carcinogenic to humans |

National Toxicology Program (NTP):

| Name | Classification |
|--------------|--|
| Formaldehyde | Reasonably anticipated to be human carcinogens |

Germ cell mutagenicity

Assessment: Suspected of causing genetic defects

Product data: No data available.

Substance data:

| Name | Result |
|--------------|--------------------------------------|
| Formaldehyde | Component may cause genetic defects. |

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Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

| Name | Result |
|-------------------|-----------------------|
| Hydrochloric acid | LC50: 282 mg/L (96Hr) |

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

SECTION 14: Transport information

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United States Transportation of dangerous goods (49 CFR DOT)

| | |
|-------------------------------|---|
| UN number | 3265 |
| UN proper shipping name | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Hydrochloric acid). |
| UN transport hazard class(es) | 8  |
| Packing group | III |
| Environmental hazards | None |
| Special precautions for user | None |
| Reportable quantity | 5000 Lb |
| Excepted quantities | 30mg/30mL |
| Passenger air/rail | 5L |
| Cargo aircraft only | 60L |
| Stowage category | A |

International Maritime Dangerous Goods (IMDG)

| | |
|-------------------------------|--|
| UN number | 3265 |
| UN proper shipping name | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Hydrochloric acid). |
| UN transport hazard class(es) | 8  |
| Packing group | III |
| Environmental hazards | None |
| Special precautions for user | None |
| Excepted quantities | 30mg/30mL |
| Limited quantity | 5L |

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| | |
|-------------------------------|---|
| UN number | 3265 |
| UN proper shipping name | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Hydrochloric acid). |
| UN transport hazard class(es) | 8  |
| Packing group | III |
| Environmental hazards | None |
| Special precautions for user | None |
| ERG code | 1543 |
| Excepted quantities | 30mg/30mL |
| Passenger and cargo | 5L |
| Cargo aircraft only | 60L |
| Limited quantity | 5L |

SECTION 15: Regulatory information

United States regulations

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Inventory listing (TSCA):

| | | |
|-----------|-------------------|--------|
| 7647-01-0 | Hydrochloric acid | Listed |
| 50-00-0 | Formaldehyde | Listed |

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 311/312 hazards:

| | | | | |
|-------|---------|------|----------|----------|
| Acute | Chronic | Fire | Pressure | Reactive |
| No | No | No | No | No |

SARA Section 302 extremely hazardous substances:

| | | |
|-----------|-------------------|--------|
| 7647-01-0 | Hydrochloric acid | Listed |
|-----------|-------------------|--------|

SARA Section 313 toxic chemicals:

| | | |
|-----------|-------------------|------------|
| 7647-01-0 | Hydrochloric acid | Listed |
| 50-00-0 | Formaldehyde | Not Listed |

CERCLA:

| | | | |
|-----------|-------------------|--------|-----------|
| 7647-01-0 | Hydrochloric acid | Listed | 5000 lbs. |
|-----------|-------------------|--------|-----------|

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA):

| | | |
|-----------|-------------------|--------|
| 7647-01-0 | Hydrochloric acid | Listed |
|-----------|-------------------|--------|

Massachusetts Right to Know:

| | | |
|-----------|-------------------|--------|
| 7647-01-0 | Hydrochloric acid | Listed |
|-----------|-------------------|--------|

New Jersey Right to Know:

| | | |
|-----------|-------------------|--------|
| 7647-01-0 | Hydrochloric acid | Listed |
|-----------|-------------------|--------|

New York Right to Know:

| | | |
|-----------|-------------------|--------|
| 7647-01-0 | Hydrochloric acid | Listed |
|-----------|-------------------|--------|

Pennsylvania Right to Know:

| | | |
|-----------|-------------------|--------|
| 7647-01-0 | Hydrochloric acid | Listed |
|-----------|-------------------|--------|

California Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause cancer.

| | |
|---------|--------------|
| 50-00-0 | Formaldehyde |
|---------|--------------|

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. 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 the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 3-0-0

HMIS: 3-0-0

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End of Safety Data Sheet