I. PRODUCT IDENTIFICATION

PRODUCT NAME: Sulfuric Acid Standard Solution 0.25N
CAS NO.: NA
FORMULA: Not applicable
CHEMICAL NAME: Not applicable
CHEMICAL FAMILY: Not applicable

II. INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>PCT</th>
<th>CAS NO.</th>
<th>TLV</th>
<th>RCR</th>
<th>HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>10</td>
<td>67-63-0</td>
<td>450</td>
<td>NA</td>
<td>Moderately toxic; flammable</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>1</td>
<td>7664-93-9</td>
<td>1 mg/l</td>
<td>NA</td>
<td>Very corrosive</td>
</tr>
<tr>
<td>Deionized Water</td>
<td>100</td>
<td>7732-18-5</td>
<td>Not applicable</td>
<td>NA</td>
<td>None</td>
</tr>
</tbody>
</table>

III. PHYSICAL DATA

STATE: Liquid
APPEARANCE: Clear and colorless
ODOR: Isopropanol
SOLUBILITY IN: WATER: Miscible
ACID: Miscible
OTHER: Not determined
BOILING POINT: 99°C
MELTING PT.: Fr. -1C
SPEC GRAVITY: 0.9445
PH: 1.6
VAPOR PRESSURE: Not determined
VAPOR DENSITY (air=1): ND
EVAPORATION RATE: 0.66
METAL COMBUSTIBILITY: 0.041 in/yr
STEEL: 0.055 in/yr
STABILITY: See Conditions to Avoid

STORAGE PRECAUTIONS: Store tightly closed in a cool, dry place.

IV. FIRE,-explosion HAZARD AND REACTIVITY DATA

FLASH POINT: >212°F
METHOD: Closed cup
FLAMMABILITY LIMITS - LOWER: ND
UPPER: ND
SUSCEPTIBILITY TO SPONTANEOUS HEATING: None
SHOCK SENSITIVITY: None
AUTOIGNITION PT.: ND
EXTINGUISHING MEDIA: Water, carbon dioxide, or dry chemical

FIRE/EXPLOSION HAZARDS: May emit toxic fumes in fire
HAZARDOUS DECOMP. PRODUCTS: May emit toxic fumes of carbon monoxide, carbon dioxide, and sulfur oxides in fire
OXIDIZER: No
NFPA CODES: Health: 1 Flammability: 1 Reactivity: 0
CONDITIONS TO AVOID: Heat, flame, oxidizers

V. HEALTH HAZARD DATA

THIS PRODUCT MAY BE: Irritating to eyes and skin.
ACUTE TOXICITY: Not determined
ROUTES OF EXPOSURE: Inhalation, ingestion, inhalation
TARGET ORGANS: Central nervous system
CHRONIC TOXICITY: Not determined
ROUTES OF EXPOSURE: Not determined
TARGET ORGANS: Not determined
CANCER INFORMATION: Carcinogenicity testing was inconclusive for an ingredient of this mixture.
ROUTES OF EXPOSURE: Not determined
TARGET ORGAN: Not determined
OVEREXPOSURE: Headache, weakness, drowsiness, light-headedness, nausea, vomiting, irritation of the eyes and skin, unconsciousness
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin disorders, impaired pulmonary function such as obstructive airway diseases

VI. PRECAUTIONARY MEASURES

Wash thoroughly after handling.
Avoid contact with eyes, skin and clothing
Do not breathe mist or vapor

protective equipment: adequate ventilation, lab grade goggles, disposable gloves

VII. FIRST AID

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes. Remove contaminated clothing. Call physician.
INHALATION: Remove to fresh air.

VIII. SPILL AND DISPOSAL PROCEDURES

IN CASE OF SPILL OR RELEASE: Absorb on paper. Burn in a chemical incinerator equipped with an afterburner and scrubber.
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

IX. TRANSPORTATION DATA

D.O.T. PROPER SHIPPING NAME: Not Currently Regulated
HAZARD CLASS: Not applicable
ID: NA
I.C.A.O. PROPER SHIPPING NAME: Not Currently Regulated
HAZARD CLASS: NA
ID: NA
GROUP: NA
I.H.O. PROPER SHIPPING NAME: Not Currently Regulated
HAZARD CLASS: NA
ID: NA
GROUP: NA

X. REFERENCES

3. In-house information
4. Technical Judgment