Safety Data Sheet (SDS)

Section 1: Identification

Product identifier: Super Picral with wetting agent

Other name(s):

Item number(s): 115, 116

Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet:

ES Laboratory, LLC

2041 E. Gladstone St. Unit N Glendora, CA 91740 USA

Tel: 626-208-9011 **Emergency telephone number:**

CHEMTREC® 1-800-424-9300 (US & Canada Only)

Section 2: Hazard(s) Identification

Hazardous classification of the substance or mixture

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Hazard Class	Category code		
Flammable liquid:	2		
Skin sensitization	1		
Acute toxicity (oral)	3		
Specific Target Organ Toxicity - Single	2		
Exposure:			

Signal word: Danger

Pictogram:







Hazard statement(s):

H225 Highly flammable liquid and vapor. H317 May cause allergic skin reaction. H301 Toxic if swallowed. H371 May cause damage to organs.

Precautionary statement(s):

Keep away from heat/sparks/open flames/hot P210

surfaces - No smoking.

P260 Do not breathe dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye

protection/face protection.

Response statement(s):

P303+P361+P353 IF ON SKIN (or hair): remove/take off immediately

all contaminated clothing. Rinses skin with

water/shower.

P301+P330+P311 IF SWALLOWED: rinse mouth, Call a POISON

CENTER or doctor/physician.

Storage statement(s):

P403+P233+P235 Store in a well-ventilated place. Keep container

tightly closed. Keep cool. Stored locked up. P405 Keep wetted with ethanol. P230

Disposal statement(s):

Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazard(s) not otherwise classified: Explosive when dry. Inspect the content periodically. Do not let it dry completely. Wipe clean the screw top of the container before sealing.

Label elements: See tables above

HMIS Ratings: NFPA Ratings: Health: 2 Health: 2 Flammability: 3 Flammability: 3 Reactivity: 0 Reactivity: 0 Special hazard: None

Section 3: Composition/Information on Ingredients

Component	CAS No.	Concentration
Ethanol	64-17-5	Balance
(ethyl alcohol)		
Methanol	67-56-1	3-5 %
(methyl alcohol)		
Isopropanol	67-63-0	3-5 %
Picric acid	88-89-1	Approx. 4 %
Hydrochloric acid	7647-01-0	~10⁄a

Benzalkonium Chloride 63449-41-2 <1%

Any concentration shown as a range is to protect the confidentiality or is due to batch variation. Only hazardous components are shown.

Section 4: First-Aid Measures

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical aid immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid immediately.

Skin contact: Wash the areas of contact with water for at least 15 minutes while removing contaminated clothing and shoes. Skin stains may be removed using reagent alcohol or dilute Ammonium Hydroxide Solution. Get medical aid immediately.

Ingestion: Rinse mouth. Get medical aid immediately.

Most important symptoms and effects, both acute and delayed: May

Recommendation for immediate medical care and special treatment needed, when necessary: No further relevant information.

Section 5: Fire-Fighting Measures

Extinguishing media: Dry chemical, foam, carbon dioxide, or water spray. Special hazards arising from the substance or mixture: In the case of fire, the following can be released: carbon monoxide and carbon dioxide. Explosive if dry, Prevent evaporation.

Special protective equipment or precautions for firefighters: Wear full protective clothing and self-contained respirator.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources.

Environmental precautions: Do not allow the material to be released to the environment without proper government permits.

Methods and materials for containment and cleaning up: Absorb with a liquid binding material (sand, diatomite, acid binder, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Keep away from ignition sources.

Section 7: Handling and Storage

Precautions for safe handling: Inspect the cap of the container before opening. Do not touch the bottle if any crystalline residue is present around the cap. Call an explosive expert immediately. Wipe clean the screw top of the container before sealing. Ensure good ventilation in the workplace. Protect against electrostatic charges. Fume can combine with air to form an explosive

Condition for safe storage: Keep container tightly sealed. Store in an approved flammable liquid storage container/area.

Incompatibilities: Store away from oxidizing agents. Do not store on concrete floors (can form explosive calcium picrate). May react with various substances,

Specific storage requirement(s): Inspect the content periodically. Do not let it dry completely. Keep wetted with ethanol. Dispose of content as a hazardous waste within one year of initial receipt.

Section 8: Exposure Controls/Personal Protection

Exposure Limits

Exposure Elling			
Component	CAS No.	ACGIH TLV	OSHA PEL
Ethanol (ethyl alcohol)	64-17-5	1000 ppm STEL	1000 ppm TWA
Methanol (methyl alcohol)	67-56-1	200 ppm TWA skin 250 ppm STEL skin	200 ppm TWA
Isopropanol	67-63-0	200 ppm TWA 400 ppm STEL	400 ppm TWA
Picric Acid	88-89-1	0.1 mg/m3 TWA	0.1 mg/m3 TWA skin
Hydrochloric acid	7647-01-0	C 5 ppm	C 5 ppm
Benzalkonium Chloride	63449-41-2	no exposure limit value	no exposure limit value

Engineering controls: Use general and/or local exhaust ventilation to control the vapor concentration.

Eye protection: Wear safety glasses or goggles.

Skin protection: Wear protective clothing and chemical resistant gloves. **Respiratory protection:** Use self-contained respiratory device in an emergency situation.

Section 9: Physical and Chemical Properties

Appearance: Clear, yellow liquid UFL/LEL: 19 Vol% / 3.3 Vol% LFL/LEL: Not determined Alcohol-like Odor: ~44 mm Hg @20 ℃ Vapor pressure: Odor threshold: Not determined Vapor density: ~6.6 lbs/gal nH: Not determined ~0.79 g/cm3 @16 °C -114 °C Relative density:

Melting Point/Freezing point:-114 °CSolubility in water:MiscibleBoiling point/boiling range:78 °Flash point:13 °CEvaporation Rate:3.3

Flammability (solid, gas):
Partition coefficient (noctanol/water):
Auto-ignition temperature:
Decomposition temperature:
Viscosity:
Not determined
Not determined
Not determined

Section 10: Stability and Reactivity

Reactivity: No information.

Chemical stability: Stable under recommended conditions.

Stabilizer(s): Ethanol.

Safety issues that may arise should the product change in appearance:

This product contains a small amount (4%) of dissolved picric acid. Do not let it dry completely. Dried picric acid crystal is not stable and may detonate. Do not touch the bottle if any crystalline residue is present around the cap. Call an explosive expert immediately.

Thermal decomposition/ conditions to Avoid: Excessive heat, incompatible materials, ignition sources, dryness.

Possibility of hazardous reactions: see incompatibilities.

Incompatibilities: Strong oxidizers. Picric acid will react with metals including copper, lead, zinc, and aluminum; ammonia, concrete, plaster, salts, gelatin, silver salts, alkali metals, and many other materials to form dangerously sensitive picrate salts.

Hazardous decomposition products: oxides of carbon, when heated to decomposition.

Section 11: Toxicological Information

For Ethanol (ethyl alcohol):

Acute toxicity:

Oral rat LD50: 7060 mg/kg

Other exposure effect:

On the Skin: May cause irritation. On the Eye: May cause irritation.

Sensitization: No sensitizing effects were known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Danger through skin absorption. No classification data on carcinogenic properties of this material is available from NTP, IARC or OSHA.

For Picric Acid:

Acute toxicity:

Oral rat LD50: 200mg/kg.

Other exposure effect:

Inhalation: May cause irritation.

On the Skin: May stain skin and cause irritation.

On the Eye: May cause irritation.

Sensitization: May cause allergic skin reaction.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. May be absorbed through the skin. No classification data on carcinogenic properties of this material is available from NTP, IARC or OSHA.

For Hydrochloric Acid:

Acute toxicity:

Oral rat LD50: 900 mg/kg.

Other exposure effect:

Inhalation: Strong corrosive effect. On the Skin: Strong corrosive effect. On the Eye: Strong corrosive effect.

Sensitization: No data.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this

material is available from NTP or OSHA. IARC-3 Not classifiable as to human carcinogenicity.

For Benzalkonium Chloride:

Acute toxicity: No information.

Other exposure effect: No information.

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

Section 12: Ecological Information

Toxicity:

Aquatic toxicity: No information.

Persistence and degradability: No information.

Behavior in environmental system:

Bioaccumulative potential: No information.

Mobility in soil: No information.

Additional ecological information: No information.

Other adverse effects: No information.

Section 13: Disposal Considerations

Place in a chemical waste container for proper disposal in an approved waste disposal facility. Dispose of the content and container in accordance with local, regional, national, international regulations.

Section 14: Transport Information

D.O.T. shipping name: Flammable liquid, n.o.s., (ethanol, picric acid)

D.O.T. hazard class: 3 UN number: UN1993 Packing group: II

Section 15: Regulatory Information

Not meant to be all inclusive, selected regulation represented

OSHA status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA status: All components are listed.

Section 16: Other Information

Disclaimer: The information above is believed to be accurate and represents the best information currently available to us. ES Laboratory, LLC makes no warranty, express or implied, as to its accuracy, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. We shall not be liable for any damages to person or property resulting from its use.

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