

# MATERIAL SAFETY DATA SHEET

**Product Name: THERMAL SPRAY**

**Issue Date: 12/31/10**

## 1. Product and Company Identification

**PRODUCT TYPE:** COSMETIC HAIR SPRAY FIXATIVE; FOR EXTERNAL USE ONLY.

**DISTRIBUTOR:**

USP

1818 Ord Way

Oceanside, CA. 92056

(760)842-7700

**EMERGENCY TELEPHONE NUMBER:**

## 2. Hazards Identification

### EMERGENCY OVERVIEW

**Color:** Thin, clear liquid

**Physical State:** Pale yellow

**Odor:** Fruity-floral

**Hazards of Product:** FLAMMABLE LIQUID

### POTENTIAL HEALTH EFFECTS

**Eye Contact:** May cause eye irritation.

**Skin Contact:** Essentially nonirritating to skin. Can cause skin to become dry and defatted.

**Skin Absorption:** Prolonged skin contact is unlikely to result in absorption of harmful amounts.

**Inhalation:** Do not inhale –contains ethyl alcohol (ethanol) –can cause light headedness or intoxication.

**Ingestion:** Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

## 3. Hazardous Composition Information

<b>COMPONENT</b>	<b>CAS#</b>	<b>AMOUNT</b>
ETHYL ALCOHOL (ETHANOL)	64-17-5	45 – 60%

## 4. First-Aid Measures

**Eye Contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If irritation, burning or harmful effects occur, consult a physician, preferably an ophthalmologist.

**Skin Contact:** Wash skin with plenty of water.

**Inhalation:** Move to fresh air immediately. Breathe fresh air. Seek emergency medical treatment.

**Ingestion:** If swallowed, seek medical attention immediately. Do not induce vomiting unless directed to do so by medical personnel.

**Notes to Physician:** No specific antidotes. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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## 5. Fire Fighting Measures

**Extinguishing Media:** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguisher. Foam. Alcohol resistant foams (ATC type) are preferred.

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire-affected zone until fire is out and danger of reigniting has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

**Special Protective Equipment of Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

**Unusual Fire and Explosion Hazards:** Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

**Hazardous Combustion Products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition, which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide, Carbon dioxide.

## 6. Accidental Release Measures

**Steps to be taken if material is Released or Spilled:** FLAMMABLE. Contain spilled material if possible. Collect with explosion-proof vacuum equipment. Collect in suitable and properly labeled containers. Attempt to absorb or neutralize by adding materials such as Sand, Vermiculite or Soda Ash. See Section 13, Disposal Considerations, for additional information. Remove all sources of heat, sparks or flame.

**Personal Precautions:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling, for additional precautionary measures.

**Environmental Precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See section 12, Ecological Information.

## 7. Handling and Storage

**General Handling:** Avoid contact with eyes. Wash thoroughly after handling.

No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping is necessary for safe handling of product. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Keep away from heat, sparks and flame.

See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

**Storage:** Store at 45 -76 degrees F (4 – 25 C), away from heat and sunlight. Store in accordance with good manufacturing practices. See Section 10 for more specific information. Product stored sealed and unopened at these temperatures may last from 12-24 months, depending on the product.

**Product Name: THERMAL SPRAY****Issue Date: 12/31/10****8. Exposure Controls / Personal Protection****Exposure Limits**

<b>Component</b>	<b>List</b>	<b>Type</b>	<b>Value</b>
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NOT TESTED

**Personal Protection****Eye/Face Protection:** Use safety Glasses**Skin Protection:** No precautions other than clean body-covering clothing should be needed.**Hand Protection:** Chemical protective gloves should be used when handling this material. Consistent with general hygienic practice for material, skin contact should be minimized.**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse affects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most condition no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: organic solvent vapor mask.**Engineering Controls****Ventilation:** Use explosion-proof local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Avoid sparks, heat or ignition sources.**9. Physical and Chemical Properties**

<b>Physical State:</b>	<b>Clear, thin liquid</b>
<b>Color:</b>	<b>Pale yellow</b>
<b>Odor:</b>	<b>Fruity-floral fragrance added</b>
<b>Flash Point – Closed Cup:</b>	<b>No Test Data Available</b>
<b>Flammable Limits in Air:</b>	<b>Lower: Test Data Available</b>
	<b>Upper: No Test Data Available</b>
<b>Auto ignition Temperature:</b>	<b>Not tested</b>
<b>Vapor Pressure:</b>	<b>No Test Data Available</b>
<b>Boiling Point (760 mmHG):</b>	<b>Not Applicable</b>
<b>Vapor Density (air=1):</b>	<b>No Test Data Available</b>
<b>Specific Gravity (H2O=1) @ 25 C</b>	<b>0.87 -0.93</b>
<b>Freezing Point:</b>	<b>Not Applicable</b>
<b>Melting Point:</b>	<b>No Test Data Available</b>
<b>Solubility in Water (by weight):</b>	<b>Soluble</b>
<b>pH:</b>	<b>Not applicable</b>
<b>Viscosity @ 25 C:</b>	<b>Not Applicable</b>

**10. Stability and Reactivity****Stability / Instability:** Thermally stable at typical use temperatures.**Conditions to Avoid:** Avoid contact with air (oxygen). Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems. Avoid static discharge sparks, flame or heat. Avoid moisture. Avoid direct sunlight or ultraviolet sources.**Incompatible Materials:** Avoid contact with: Strong acids, Strong bases, Strong oxidizers.**Hazardous Polymerization:** Will not occur.**Thermal Decomposition:** Decomposition products depend upon temperature, air supply and the presence of other materials.

Decomposition products can include and are not limited to: Carbon dioxide, Alcohols, Ethers, Hydrocarbons, Ketones, Polymer fragments.

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## 11. Toxicological Information

**Acute Toxicity:**

**Ingestion:**

Not tested

**Skin Absorption:**

Not tested

**Sensitization:**

Skin: Not tested

**Repeated Dose Toxicity:**

Not tested

**Chronic Toxicity and Carcinogenicity:**

Not tested

**Reproductive Toxicity:**

Not tested

**Genetic Toxicology:**

Not tested

## 12. Ecological Information

NOT TESTED

## 13. Disposal Considerations

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. COSMEDX SCIENCE HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN THIS MSDS. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a properly licensed and permitted landfill or incinerator, suitable for this type of product.

## 14. Transport Information

DOT Non-Bulk

FLAMMABLE LIQUID

DOT Bulk

FLAMMABLE LIQUID

Hazard technical name: ALCOHOL MIXTURE [45-60% ethyl alcohol (ethanol) w/w in water and other ingredients]

Shipping name ETHANOL SOLUTION

Shipping class CLASS III FLAMMABLE LIQUID

UN/NA NUMBER: UN1170

PACKING GROUP: II

IMDG

Proper shipping name: Ethanol solution

Hazard class: 3 flammable liquid [45-60% ethyl alcohol (Ethanol) by weight]

ICAO/IATA

Proper shipping name: Ethanol solution

Hazard class: 3

Label: Miscellaneous dangerous goods class 3

Packaging instructions: 305/307

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative, or from the agencies that govern or regulate transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**Product Name: THERMAL SPRAY****Issue Date: 12/31/10****15. Regulatory Information****OSHA Hazard Communication Standard**

This product is not a "Hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**

Immediate (Acute) Health Hazard	yes
Delayed (Chronic) Health Hazard	No
Fire Hazard	yes
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**

**WARNING:** This product contains a chemical(s) at reportable amounts known to the state of California to cause cancer.

<b>Component</b>	<b>CAS#</b>	<b>Amount</b>
ETHYL ALCOHOL	64-17-5	45-60% W/W

**16. Other Information**

**Revision: 12/31/10**

**Legend**

N/A	Not Available
W/W	Weight / Weight
OEL	Occupational Exposure Limit
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists, Inc.
WEEL	Workplace Environmental Exposure Level
HAZ DES	Hazard Designation
Action Level	A value set by OSHA that is lower than the PEL, which will trigger the need for activities such as exposure monitoring and medical surveillance if exceeded.

Each customer or recipient of this MSDS is urged to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this MSDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's / user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to this product as shipped. Since conditions for use of this product are not under this control of the manufacturer, it the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific MSDSs, we are not and cannot be responsible for MSDSs obtained from any source other than ourselves.

Customer is responsible for completing any tests not run and compiling any other data or information which may be required for proper use or shipment, or which may be required by regulation.