



M441-000 TWO MINUTE TOUCH UP SOLVENT

# MATERIAL SAFETY DATA SHEET

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EMERGENCY PHONE (CHEM TREC): ..... 1-800-424-9300  
FOR ALL INTERNATIONAL TRANSPORTATION ACCIDENTS. .... 1-703-527-3887 (collect)

Health: 2                      Flammability: 3                      Reactivity 0

PRODUCT NAME: M441-000 TWO MINUTE TOUCH UP SOLVENT

## I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE:	06/04/06
SUPERCEDES:	23/10/03
MSDS NO.	M441-000
OSHA HAZ. CLASS:	Eye irritant. Neurotoxin - may cause nervous system damage. Mucous membrane (respiratory tract) irritant.

## II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
isopropanol	31-40	67-63-0	400 ppm TWA; 980 mg/m3 TWA
aliphatic petroleum distillates	31-40	64742-89-8	No PEL established
acetone	11-20	67-64-1	1000 ppm TWA; 2400 mg/m3 TWA
ethyl acetate	11-20	141-78-6	400 ppm TWA; 1400 mg/m3 TWA
n-butyl acetate	11-20	123-86-4	150 ppm TWA; 710 mg/m3 TWA

## III. HAZARDS IDENTIFICATION

**Routes of Entry:** Inhalation, ingestion, skin, eyes.  
**Medical Conditions Aggravated:** Skin disease including eczema and sensitization. Respiratory disease including asthma and bronchitis. Eye disease.

### Immediate (Acute) Health Effects

**Inhalation:** Irritation may be delayed for several hours. Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

**Skin Contact:** Substance causes moderate skin irritation. Can cause minor skin irritation, defatting, and dermatitis.

**Eye Contact:** Mildly irritating but will not injure eye tissue. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible. Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

**Skin Absorption:** No absorption hazard in normal industrial use.

**Ingestion:** Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Harmful if swallowed. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

**Target Organ Acute Toxicity:**

Isopropyl alcohol	eyes, skin, respiratory system
Acetone	respiratory system, skin, eyes, CNS
Ethylacetate	eyes, skin, respiratory system
n-Butyl acetate	eyes, skin, respiratory system, CNS

**Long-Term (Chronic) Health Effects:**

**Carcinogenicity:** ACGIH. IARC. NIOSH. NTP. OSHA. None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.

**Reproductive and Developmental Toxicity:** No information available.

**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

**Inhalation:** Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

**Skin Contact:** Prolonged or repeated contact may cause irritation. Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis.

**Eye Contact:** Upon prolonged or repeated contact, can cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

**Skin Absorption:** Upon prolonged or repeated exposure, no hazard in normal industrial use.

**Target Organ Chronic Toxicity:** Skin. Respiratory Tract. Eyes. Nervous System. Skin. Respiratory Tract. Nervous System. Eyes.

**Supplemental Health Hazard Information:** No additional health information available.

**IV. FIRST AID**

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**Inhalation:** Remove to fresh air. Get medical attention immediately. Have a trained individual administer humidified oxygen. If not breathing, give artificial respiration.

**Eyes:** Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

**Skin Contact:** Wash with soap and water. Wash with soap and water. Get medical attention if irritation develops or persists.

**Ingestion:** Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS.

**Notes to MD:** No additional first aid information available.

## **V. FIRE FIGHTING MEASURES**

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### **Flammability Summary:**

**Flash Point:** -4 (CALC.) °F  
**Upper Flammable/Explosive Limit, % in air:** 12.8 @ 77° F  
**Lower Flammable/Explosive Limit, % in air:** 2.0 @ 77° F

**Fire Hazards:** Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. If product is heated above its flash point it will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death. Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back.

**Extinguishing Media:** Use alcohol resistant spray, Carbon Dioxide, water spray or dry chemical to extinguish a fire involving this chemical. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. H<sub>2</sub>O, CO<sub>2</sub>, dry chemical, foam. Carbon dioxide Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.

**Fire Fighting Instructions:** Use methods for the surrounding fire. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

## **VI. ACCIDENTAL RELEASE MEASURES**

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**Health Consideration for Spill Response:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

**Spill Mitigation Procedures General Methods:** Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## **VII. HANDLING AND STORAGE**

**Handling:** Use spark-proof tools and explosion-proof equipment. Harmful or irritating material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.

**Storage:** Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed.

## **VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT**

**Engineering Controls:** Ventilation should effectively remove and prevent buildup of any vapor/mist/fume generated from the handling of this product.

### **Protective Equipment**

**Respiratory Tract:** Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage should be implemented.

**Eyes:** Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

**Skin:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

## **IX. PHYSICAL DATA**

**Physical State:** CLEAR LIQUID  
**Odor:** STRONG SOLVENT  
**Solids Vol %:** 0.0000  
**Solids Wt %:** 0.0000  
**Material VOC lbs/gal:** 5.6423

**Material VOC gms/l:** 677.5932  
**Coatings VOC lbs/gal:** 6.5553  
**Coatings VOC gms/l:** 787.2314  
**Weight per gallon lbs:** 6.5757

VOC data per US EPA guidelines. State and local variations may apply.

**X. STABILITY AND REACTIVITY**

**Stability Information:** Stable. Normally stable. Keep away from heat, sparks and flame.  
**Conditions to Avoid:** Avoid: heat, sparks, flame and oxidizing agents. None known.  
**Chemical Incompatibility:** Strong oxidizing agents. Strong acids. Strong alkalis.

**XI. TOXICOLOGICAL INFORMATION**

Chemical Name	CAS Number	LD50/LC50
Isopropyl alcohol	67-63-0	Inhalation LC50 Rat : 16000 ppm/8H; Oral LD50 Rat : 5045 mg/kg; Oral LD50 Mouse : 3600 mg/kg; Dermal LD50 Rabbit : 12800 mg/kg
Acetone	67-64-1	Inhalation LC50 Rat : 50100 mg/m3/8H; Inhalation LC50 Mouse : 44 gm/m3/4H; Oral LD50 Rat : 5800 mg/kg; Oral LD50 Mouse : 3 gm/kg
Acetic acid, ethyl ester	141-78-6	Inhalation LC50 Rat : 200 gm/m3; Inhalation LC50 Mouse : 45 gm/m3/2H; Oral LD50 Rat : 5620 mg/kg; Oral LD50 Mouse : 4100 mg/kg; Dermal LD50 Rabbit : >20 mL/kg
Acetic acid, butyl ester	123-86-4	Inhalation LC50 Rat : 2000 ppm/4H; Inhalation LC50 Mouse : 6 gm/m3/2H; Oral LD50 Rat : 10768 mg/kg; Oral LD50 Mouse : 6 gm/kg; Dermal LD50 Rabbit : >17600 mg/kg

**XII. ECOLOGICAL INFORMATION**

**Overview (for ingredients):** Keep out of waterways. Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

**XIII. DISPOSAL CONSIDERATIONS**

**Waste Description for Spent Product:** The waste may be a listed and/or characteristic hazardous waste. The waste may be a listed hazardous waste. Spent or discarded material is a hazardous waste.  
**Disposal Methods:** Comply with all Local, State, Federal, and Provincial Environmental Regulations. Dispose of by incineration following Federal, State, Local, or Provincial regulations.  
**Potential EPA Waste Codes:** If discarded, this product is considered a RCRA ignitable waste, D001.

**Components Subject to USEPA Land Disposal Restrictions:**

Acetone	67-64-1	14.00 %
Ethylacetate	141-78-6	12.00 %

**XIV. TRANSPORTATION INFORMATION**

**DOT** Paint, 3, UN 1263, II  
 See 49CFR 172.101 for Special Provisions, Packaging, and Quantity Limitations.

**XV. REGULATORY INFORMATION**

Chemical Name	Regulation	CASRN	%
Isopropyl alcohol	SARA 313 Reportable:	67-63-0	32.00
sec-Butyl alcohol	SARA 313 Reportable:	78-92-2	0.00
isopropanol	New Jersey Right To Know:	67-63-0	32.00

aliphatic petroleum distillates	New Jersey Right To Know:	64742-89-8	30.00
acetone	New Jersey Right To Know:	67-64-1	14.00
ethyl acetate	New Jersey Right To Know:	141-78-6	12.00
n-butyl acetate	New Jersey Right To Know:	123-86-4	11.98

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## **XVI. ADDITIONAL INFORMATION**

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**Other Information:**

IMPORTANT: WHILE THE DESCRIPTIONS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU PERFORM AN ASSESSMENT TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION SET FORTH. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, OR DATA PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, THE DESCRIPTIONS, DATA AND INFORMATION FURNISHED HEREUNDER ARE GIVEN GRATIS. NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DATA AND INFORMATION GIVEN ARE ASSUMED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

MSDS glossary.