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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **DUCO CEMENT**
Stock No.: 6245
Manufacturer Name: ITW Devcon
Address: 30 Endicott Street
Danvers, MA 01923
MSDS Revision Date: 10/10/2006
Emergency telephone number (800) 424-9300

HMIS

Health Hazard	2*
Fire Hazard	3
REACTIVITY	2
Personal Protection	X

* Chronic Health Effects:

In the US, call CHEMTREC: (800) 424-9300

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	
Acetone	67-64-1	60 - 100 by Weight
Cellulose Nitrate	9004-70-0	10 - 30 by Weight
Isopropanol	67-63-0	1 - 5 by Weight
Camphor	76-22-2	1 - 5 by Weight
1-methoxy-2-propanol acetate	108-65-6	1 - 5 by Weight

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SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: DANGER! Extremely Flammable. Irritant.

Primary Routes of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye Contact: Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

Skin Contact: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling.

Inhalation: Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects: Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.

Target Organs: Eyes. Skin. Respiratory system. Digestive system. Central nervous system.

Aggravation of Pre-Existing Conditions: Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

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SECTION 4: FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

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SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties :	Extremely Flammable.
Auto Ignition Temp :	Not determined.
Flash Point:	- 4°F (-20°C)
Flash Point Method:	Tag closed cup (TCC)
Lower Explosive Limit (LEL)	0.6%
Upper Explosive Limit (UEL)	12.8%
Extinguishing Media:	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
Protective Equipment:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Spill Cleanup Measures:	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective equipment as listed in section 8.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Other Precautions:	Pump or shovel to storage/salvage vessels.

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SECTION 7: HANDLING AND STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.
Hygiene Practices:	Wash thoroughly after handling.
Special Handling Procedures:	Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or
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	other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

Acetone:

Guideline ACGIH :	ACGIH TLV-TWA 500 ppm
Guideline OSHA :	OSHA PEL-TWA 1000 ppm

Isopropanol:

Guideline ACGIH :	ACGIH TLV-TWA 200 ppm
Guideline OSHA :	OSHA PEL-TWA 400 ppm

Camphor:

Guideline ACGIH :	ACGIH TLV-TWA 2 ppm
Guideline OSHA :	OSHA PEL-TWA 2 mg/m3

Notes : Only established PEL and TLV values for the ingredients are listed below.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:	Liquid.
Color:	clear to amber
Odor:	Solvent.
Boiling Point:	132°F (55.5°C)
Melting / Freezing Point :	Not determined.
Solubility:	slightly soluble
Specific Gravity:	0.87
pH:	Not determined.
Vapor Density:	>1 (air = 1)
Vapor Pressure:	185 mmHg @68°F
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Percent Volatile:	80-90
VOC Data :	710 g/L
Percent Solids by Weight	10-20

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SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.
Incompatibilities with Other Materials:	Oxidizing agents. Strong acids and alkalis.
Hazardous Polymerization:	Not reported.

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SECTION 11: TOXICOLOGICAL INFORMATION

Acetone:

Eye Effect:	Eye - Human Standard Draize Test : 186300 ppm - [mild](RTECS)
Skin Effects:	Skin - Rabbit Standard Draize Test : 500 mg/24H - [mild](RTECS) Skin - Rabbit LDLo: 20 mL/kg - [Details of toxic effects not reported other than lethal dose value](RTECS) Skin - Guinea pig LD50: >9400 uL/kg - [Details of toxic effects not reported other than lethal dose value](RTECS)
Inhalation Effects:	Inhalation - Rat LC50: 50100 mg/m3/8H - [Details of toxic effects not reported other than lethal dose value] (RTECS) Inhalation - Mouse LC50: 44 gm/m3/4H - [Details of toxic effects not reported other than lethal dose value] (RTECS)

Ingestion Effects: Oral - Rat LD50: 5800 mg/kg - [oral - altered sleep time (including change in righting reflex) oral - tremor] (RTECS)
Oral - Mouse LD50: 3 gm/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)

Cellulose Nitrate:

Ingestion Effects: Oral - Rat LD50: >5 gm/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)
Oral - Mouse LD50: >5 gm/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)

Isopropanol:

Eye Effect: Eye - Rabbit Standard Draize Test : 100 mg/24H - [Moderate](RTECS)
Skin Effects: Skin - Rabbit Standard Draize Test : 500 mg - [mild](RTECS)
Skin - Rabbit LD50: 12800 mg/kg - [Details of toxic effects not reported other than lethal dose value](RTECS)
Inhalation Effects: Inhalation - Rat LC50: 72600 mg/m3 - [Behavioral - general anesthetic Lungs, Thorax, or Respiration - other changes] (RTECS)
Inhalation - Mouse LC50: 53000 mg/m3 - [Behavioral - general anesthetic Lungs, Thorax, or Respiration - other changes] (RTECS)
Ingestion Effects: Oral - Rat LD50: 5000 mg/kg - [oral - general anesthetic] (RTECS)
Oral - Mouse LD50: 3600 mg/kg - [oral - altered sleep time (including change in righting reflex) oral - somnolence (general depressed activity)] (RTECS)
Oral - Mouse LD50: 3600 mg/kg - [oral - general anesthetic] (RTECS)

Camphor:

Inhalation Effects: Inhalation - Rat LC50: 500 mg/m3 - [Details of toxic effects not reported other than lethal dose value] (RTECS)
Inhalation - Mouse LC50: 450 mg/m3 - [Behavioral - excitement Behavioral - muscle contraction or spasticity Gastrointestinal - nausea or vomiting] (RTECS)
Ingestion Effects: Oral - Mouse LD50: 1310 mg/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)

1-methoxy-2-propanol acetate:

Skin Effects: Skin - Rabbit LD50: >5 gm/kg - [Details of toxic effects not reported other than lethal dose value](RTECS)
Ingestion Effects: Oral - Rat LD50: 8532 mg/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.
Environmental Fate: No environmental information found for this product.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
RCRA Number : D001
Important Disposal Information: DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal con

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SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Adhesives
DOT UN Number: 1133
DOT Hazard Class: 3
DOT Packing Group: II
DOT Exemption ORM-D Small quantity exemption

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SECTION 15: REGULATORY INFORMATION

WHMIS Pictograms



**Acetone:**

TSCA Inventory Status Listed
State: Listed in the State of Massachusetts Hazardous Substance List.
Listed in the Pennsylvania State Hazardous Substances List.
EC Num : 606-001-00-8

Cellulose Nitrate:

TSCA Inventory Status Listed
State: Listed in the State of Massachusetts Hazardous Substance List.
Listed in the New Jersey State Right to Know List.
Listed in the Pennsylvania State Hazardous Substances List.

Isopropanol:

TSCA Inventory Status Listed
State: Listed in the State of Massachusetts Hazardous Substance List.
Listed in the New Jersey State Right to Know List.
Listed in the Pennsylvania State Hazardous Substances List.
EC Num : 603-003-00-0

Camphor:

TSCA Inventory Status Listed
State: Listed in the State of Massachusetts Hazardous Substance List.
Listed in the Pennsylvania State Hazardous Substances List.

1-methoxy-2-propanol acetate:

TSCA Inventory Status Listed
EC Num : 607-195-00-7
Canadian Regulations: WHMIS Hazard Class(es): B2
All components of this product are on the Canadian Domestic Substances List.

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SECTION 16: ADDITIONAL INFORMATION

HMIS Health Hazard: 2*
HMIS Fire Hazard: 3
HMIS Reactivity: 2
HMIS Personal Protection: X
MSDS Revision Date: 10/10/2006
Disclaimer: "This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment."