

23823-1003

ITW Devcon

Material Safety Data Sheet

Part No.: 6245

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DUCO CEMENT

This product appears in the following stock number(s):
6243 6245 6246

Last revised: 07/02/97

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade name: DUCO CEMENT
General use: Adhesive.
Chemical family: Nitrocellulose solution

MANUFACTURER

ITW Devcon
30 Endicott St.
Danvers, Massachusetts 01923

EMERGENCY INFORMATION

Emergency telephone number
(CHEMTREC): (800) 424-9300
Other Calls: (508) 777-1100

V-1290

2. COMPOSITION/INFORMATION ON INGREDIENTS**HAZARDOUS CONSTITUENTS****Exposure limits**

Constituent	Abbr.	CAS No.	Weight percent	ACGIH TLV	OSHA PEL	Other Limits
1-Methoxy-2-Propanol acetate	PGMEA	108656	< 5	n/e	n/e	n/e
Acetone		67641	70-80	750 ppm	1000 ppm	750 ppm (CANADA)
Cellulose Nitrate		9004700	10-20	n/e	n/e	n/e
Isopropanol	IPA	67630	1-10	400 ppm	400 ppm	400 ppm (CANADA)
Camphor		76222	< 5*	2 ppm	2 mg/m ³	2 ppm (CANADA)

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

3. HAZARDS IDENTIFICATION**Emergency Overview**

Appearance, form, odor: Clear to amber liquid with solvent odor.

DANGER! Extremely Flammable. Keep away from heat, sparks, open flame. An eye irritant. May cause skin irritation. Overexposure may cause respiratory tract, mucous membrane irritation. Can cause CNS effects (evidenced by dizziness, headache, nausea and vomiting). Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing vapor. Use with adequate ventilation. Keep container closed when not in use.

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Potential health effects

Primary routes of exposure: Skin contact Skin absorption Eye contact Inhalation Ingestion

Symptoms of acute overexposure:
Skin: Irritation, evidenced by drying and cracking.
Eyes: Severe eye irritant.

Inhalation:
 Headache, lethargy, drowsiness, weakness, difficulty walking, personality change, poor appetite, nausea and weight loss.

Ingestion:
 Headache, lethargy, drowsiness, weakness, difficulty walking, personality change, poor appetite, nausea and weight loss.

Effects of chronic overexposure:
 Prolonged exposure to vapor concentrations in excess of tlv or through prolonged absorption through skin may cause damage to blood, kidneys and nervous system.

Carcinogenicity -- OSHA regulated: No **ACGIH:** No **National Toxicology Program:** No
 International Agency for Research on Cancer: No
 Cancer-suspect constituent(s) : none

Medical conditions which may be aggravated by exposure:
 None known

Other effects:
 See Section 11.

4. FIRST AID MEASURES

First aid for eyes:
 Flush with water for 15 minutes and seek medical assistance.

First aid for skin:
 Wash with soap and water. If irritation persists, see a physician.

First aid for Inhalation:
 Remove victim to fresh air. If not breathing, give artificial respiration. Get prompt medical attention.

First aid for Ingestion:
 Do not induce vomiting. Seek medical assistance.

5. FIRE FIGHTING MEASURES

Extinguishing media:

<input checked="" type="checkbox"/> Water	<input checked="" type="checkbox"/> Carbon dioxide	<input checked="" type="checkbox"/> Dry chemical	<input checked="" type="checkbox"/> Foam	<input checked="" type="checkbox"/> Alcohol foam
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Flash Point (°F): - 4 **Method:** TCC

Explosive limits in air (percent) -- Lower: 0.6 **Upper:** 12.8

Special firefighting procedures:
 Keep containers in storage cool with water to prevent pressure build up and bursting. Self contained breathing apparatus should be worn to protect firefighters from toxic degradation products.

Unusual fire and explosion hazards:
 Dry nitrocellulose resin is extremely flammable and burns explosively. Avoid friction and impact on dry resin.

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Hazardous products of combustion:

Oxides of carbon, Oxides of nitrogen and other toxic gases.

6. ACCIDENTAL RELEASE MEASURES**Spill control:**

Avoid personal contact. Eliminate ignition sources. Ventilate area.

Containment:

Dike, contain and absorb with clay, sand or other suitable non-combustible material.

Cleanup:

For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material and dispose of properly (RCRA hazardous waste).

Special procedures:

Prevent spill from entering drainage/sewer systems, waterways, and surface waters. Use non-sparking tools

7. HANDLING AND STORAGE**Handling precautions:**

EXTREMELY FLAMMABLE! Do not breathe vapor or mist. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Close container after each use. Ground container when pouring. Keep away from heat, flame or sparks. Use non-sparking tools. Wear appropriate respiratory protection against decomposition products when welding the cured material. Avoid friction and impact upon the cured material (nitrocellulose).

Storage:

Keep in a cool place, without direct exposure to sunlight. Keep container tightly closed and otherwise in accordance with NFPA regulations. Maintain air space in storage containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering controls****Ventilation :**

Mechanical or supplemental local exhaust may be required to keep vapor concentrations below tlv.

Other engineering controls :

Keep container tightly closed. Observe label precautions. Have emergency eye wash and safety shower present.

Personal protective equipment**Eye and face protection:**

Safety glasses with side shields or full face shield.

Skin protection:

Chemical resistant gloves and apron are recommended.

Respiratory protection:

Use a NIOSH approved cartridge respirator for vapor concentrations above the tlv.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity:	0.9	Boiling point (°F):	132-405
Melting point (°F):	n/d	Vapor density (air = 1):	>1
Vapor pressure (mmHg):	185 at 68 °F	Evaporation rate (butyl acetate = 1):	slower than ether
VOC (grams/liter):	74	Solubility in water:	slight
Percent volatile by volume:	80-90	pH (5% solution or slurry in water):	n/d
Percent solids by weight:	10-20		

10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization will not occur.

Conditions to avoid :

Heat, flames and other sources of ignition. Avoid allowing unmodified resin to become dry, avoid impact and friction.

Incompatible materials:

Strong oxidizers, acids, bases and amines.

Hazardous products of decomposition:

Oxides of carbon, Oxides of nitrogen and other unknown organic combustion products.

Conditions under which hazardous polymerization may occur:

None

11. TOXICOLOGICAL INFORMATION

Acute oral effects: LD50 (rat): No data available.
No data available.

Acute dermal effects: LD50 (rabbit): No data available.
No data available.

Acute Inhalation effects: LC50 (rat): No data available.
No data available.

Eye Irritation:
No data available

Subchronic effects:
No data available.

Carcinogenicity, teratogenicity, and mutagenicity:
No data available.

Other chronic effects:
No data available.

Toxicological Information on hazardous chemical constituents of this product:

Exposure: hours.

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Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr, (rat)
1-Methoxy-2-Propanol acetate	n/d	n/d	n/d
Acetone	5800 mg/kg	20,000 mg/kg	70852 mg/m ³
Cellulose Nitrate	>5 g/kg	n/d	n/d
Isopropanol	5045 mg/kg	12.8 g/kg	22827 ppm
Camphor	n/d	n/d	n/d

"n/d" = "not determined"

12 ECOLOGICAL INFORMATION**Ecotoxicity:**

No data available.

Mobility and persistence:

No data available.

Environmental fate:

No data available.

13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

Waste management recommendations:

Do not dispose of in a landfill. Incineration is the preferred method of disposal.

14. TRANSPORT INFORMATION

Proper shipping name: Adhesives *

Technical name :

Hazard class : 3

UN number: 1133

Packing group: II

Emergency Response Guide no.: 127

IMDG page number:

Other:

*Depending upon the size and type of container, this material may be reclassified as "Consumer Commodity, ORM-D" for shipments within the United States, or "Limited Quantity" elsewhere. Refer to the appropriate

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15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA

All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

The following RCRA code(s) applies to this material if it becomes waste:

D001

Regulatory status of hazardous chemical constituents of this product:

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
1-Methoxy-2-Propanol acetate	No	No	None	Not required
Acetone	No	No	None	Not required
Cellulose Nitrate	No	No	None	Not required
Isopropanol	No	No	None	Required
Camphor	No	No	None	Not required

*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance list.

**Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material: - Immediate health hazard -- Delayed health hazard -

Canadian regulations

WHMIS hazard class(es): B2

All components of this product are on the Domestic Substances List.

16. OTHER INFORMATION

Hazardous Materials Information System (HMIS) ratings:	Health 2*	Flammability 3	Reactivity 2
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The information and recommendations in this document are based on the best information available to us at the time of preparation, but we make no other warranty, express or implied, as to its correctness or completeness, or as to the results of reliance on this document.

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