PDF Copy

Devcon®

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:	FLEXANE FL-10 PRIMER
Stock No.:	15980
Manufacturer Name:	ITW Devcon
Address:	30 Endicott Street Danvers, MA 01923
General Phone Number:	(978) 777-1100
Emergency Phone Number:	(800) 424-9300
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424-9300
Canutec:	In Canada, call CANUTEC: (613) 996-6666 (call collect)
MSDS Revision Date:	January 15, 2011
MSDS Format:	According to ANSI Z400.1-2004

HMIS

Health Hazard	2*
Fire Hazard	3
Reactivity	1
Personal Protection	X

* **Chronic Health Effects**

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Isopropanol	67-63-0	10 - 30 by weight
Methyl Isobutyl Ketone	108-10-1	30 - 60 by weight
Phenolic Resin	9003-35-4	5 - 10 by weight
Toluene	108-88-3	10 - 30 by weight
Ethanol	64-17-5	1 - 5 by weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: WARNING! Flammable. Irritant.

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

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

Skin: 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. Kidney. 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.

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.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties:	Flammable.
Flash Point:	55°F (12.7°C)
Flash Point Method:	Tag closed cup (TCC)
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	1.3%
Upper Flammable/Explosive Limit:	8.0%
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.
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 (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
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.
Other Precautions:	Pump or shovel to storage/salvage vessels.

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.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product. 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.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

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 other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
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.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
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.

EXPOSURE GUIDELINES

Isopropanol :

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

Methyl Isobutyl Ketone :

Guideline ACGIH:	50 ppm TLV-STEL: 75 ppm TLV-TWA: 30 ppm TLV-TWA: 50 ppm
Guideline OSHA:	100 ppm PEL-TWA: 100 ppm

Toluene :

Guideline ACGIH:	50 ppm TLV-TWA: 20 ppm
Guideline OSHA:	200 ppm PEL-Ceiling/Peak: 300 ppm PEL-Ceiling/Peak: 500 ppm Peak PEL-TWA: 200 ppm

Ethanol :

Guideline ACGIH:	1000 ppm TLV-TWA: 1000 ppm
Guideline OSHA:	1000 ppm PEL-TWA: 1000 ppm
Notes :	Only established PEL and TLV values for the ingredients are listed.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Liquid.
Color:	blue
Odor:	Solvent.
Boiling Point:	195°F (90.5°C)
Melting Point:	Not determined.
Specific Gravity:	0.87
Solubility:	Approximately. 35%
Vapor Density:	>1 (air = 1)
Vapor Pressure:	13 mmHg @68°F
Percent Volatile:	80
Evaporation Rate:	>1 (butyl acetate = 1)
pH:	Approximately 7 @ 5 Percent Solution
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	55°F (12.7°C)
Flash Point Method:	Tag closed cup (TCC)
Auto Ignition Temperature:	Not determined.
VOC Content:	640 g/L
Percent Solids by Weight	20

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Heating resin above 300 F in the presence of air may cause slow oxidative decomposition.
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 - TOXICOLOGICAL INFORMATION

Isopropanol :

RTECS Number:	NT8050000
Eye:	Eye - Rabbit Standard Draize test.: 100 mg Eye - Rabbit Standard Draize test.: 10 mg Eye - Rabbit Standard Draize test.: 100 mg/24H
Skin:	Administration onto the skin - Rabbit : 12800 mg/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rabbit : 500 mg
Inhalation:	Inhalation - Rat LC50: 16000 ppm/8H [Details of toxic effects not reported other than lethal dose value] Inhalation - Mouse LC50: 53000 mg/m3 [Behavioral - General anesthetic Lungs, Thorax, or Respiration - Other changes] Inhalation - Rat LC50: 72600 mg/m3 [Behavioral - General anesthetic Lungs, Thorax, or Respiration - Other changes]
Ingestion:	Oral - Rat LD50: 5045 mg/kg [Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Somnolence (general depressed activity)] Oral - Mouse LD50: 3600 mg/kg [Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Somnolence (general depressed activity)] Oral - Mouse LD50: 3600 mg/kg [Behavioral - General anesthetic] Oral - Rat LD50: 5000 mg/kg [Behavioral - General anesthetic]
Carcinogenicity:	IARC 3

Methyl Isobutyl Ketone :

RTECS Number:	SA9275000
Eye:	Eye - Human Standard Draize test.: 200 ppm/15M Eye - Rabbit Standard Draize test.: 40 mg Eye - Rabbit Standard Draize test.: 100 uL/24H
Skin:	Administration onto the skin - Rabbit : >3 gm/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rat : 35700 mg/kg/17W (Intermittent) [Brain and Coverings - recordings from specific areas of CNS Nutritional and Gross Metabolic - Body temperature decrease Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - Other oxidoreductases] Administration onto the skin - Rabbit : 500 mg/24H
Inhalation:	Inhalation - Rat LC50: 100 gm/m3 [Details of toxic effects not reported other than lethal dose value] Inhalation - Mouse LC50: 23300 mg/m3 [Details of toxic effects not reported other than lethal dose value] Inhalation - Mouse LC50: 23300 mg/m3 [Brain and Coverings - Increased intracranial pressure Lungs, Thorax, or Respiration - Other changes Liver -

Fatty liver degeneration]

Ingestion:

Oral - Rat LD50: 2080 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Mouse LD50: 1900 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Mouse LD50: 2850 mg/kg [Brain and Coverings - Increased intracranial pressure Liver - Fatty liver degeneration Blood - Changes in spleen]
Oral - Rat LD50: 4600 mg/kg [Brain and Coverings - Increased intracranial pressure Liver - Fatty liver degeneration Blood - Changes in spleen]

Phenolic Resin :

RTECS Number: SM8542500

Skin:

Administration onto the skin - Rat LD50 : >2 gm/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Human TCLo : 1 pph [Skin and Appendages - Dermatitis, allergic (After topical exposure)]

Ingestion:

Oral - Rat LD50 : >5 gm/kg [Details of toxic effects not reported other than lethal dose value]

Toluene :

RTECS Number: XS5250000

Eye:

Eye - Human Standard Draize test.: 300 ppm
Eye - Rabbit Standard Draize test.: 870 ug
Eye - Rabbit Standard Draize test.: 2 mg/24H
Eye - Rabbit Rinsed with water.: 100 mg/30S

Skin:

Administration onto the skin - Rabbit : 14100 uL/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Rat : 26.4 mg/kg [Skin and Appendages - Dermatitis, irritative (After systemic exposure) Biochemical - Metabolism (Intermediary) - Effect on inflammation or mediation of inflammation]
Administration onto the skin - Rabbit : 217 mg/kg/2D (Continuous) [Skin and Appendages - Primary irritation (After topical exposure)]
Administration onto the skin - Rabbit : 435 mg
Administration onto the skin - Rabbit : 500 mg
Administration onto the skin - Rabbit : 20 mg/24H
Administration onto the skin - : 250 uL/24H

Inhalation:

Inhalation - Rat LC50: 49 gm/m3/4H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Mouse LC50: 400 ppm/24H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Mouse LC50: 30000 mg/m3/2H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Mouse LC50: 19900 mg/m3/7H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Mouse LC50: 10000 mg/m3 [Behavioral - Somnolence (general depressed activity)]

Ingestion:

Oral - Rat LD50: 636 mg/kg [Details of toxic effects not reported other than lethal dose value]

Ethanol :

RTECS Number: KQ6300000

Eye:

Eye - Rabbit Standard Draize test.: 500 mg
Eye - Rabbit Standard Draize test.: 500 mg/24H
Eye - Rabbit Rinsed with water.: 100 mg/4S

Skin:

Administration onto the skin - Rabbit : 20000 mg/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Rabbit : 400 mg
Administration onto the skin - Rabbit : 20 mg/24H

Inhalation:

Inhalation - Rat LC50: 20000 ppm/10H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Mouse LC50: 39 gm/m3/4H [Details of toxic effects not reported other than lethal dose value]

Ingestion:	Oral - Mouse LD50: 3450 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50: 7 gm/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50: 7060 mg/kg [Lungs, Thorax, or Respiration - Other changes]

SECTION 12 - ECOLOGICAL INFORMATION

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

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 container.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name:	Flammable liquids, n.o.s.
DOT UN Number:	1993
DOT Hazard Class:	3
DOT Packing Group:	II

SECTION 15 - REGULATORY INFORMATION

Isopropanol :

TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
New Jersey:	Listed: NJ Hazardous List; Substance Number: 1076
Massachussetts:	Listed
Pennsylvania:	Listed
Canada DSL:	Listed

Methyl Isobutyl Ketone :

TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
New Jersey:	Listed: NJ Hazardous List; Substance Number: 1268

Massachussetts:	Listed: Massachusetts Oil and Hazardous List
Pennsylvania:	Listed
Canada DSL:	Listed
Phenolic Resin :	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
Toluene :	
TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
California PROP 65:	Listed: developmental
New Jersey:	Listed: NJ Hazardous List; Substance Number: 1866
Massachussetts:	Listed: Massachusetts Oil and Hazardous List
Pennsylvania:	Listed
Canada DSL:	Listed
Ethanol :	
TSCA Inventory Status:	Listed
Massachussetts:	Listed: Massachusetts Oil and Hazardous List
Pennsylvania:	Listed
Canada DSL:	Listed
Canadian Regulations.	WHMIS Hazard Class(es): B2; D2B; D2A All components of this product are on the Canadian Domestic Substances List.

SECTION 16 - ADDITIONAL INFORMATION

HMIS Health Hazard:	2*
HMIS Fire Hazard:	3
HMIS Reactivity:	1
HMIS Personal Protection:	X
MSDS Revision Date:	January 15, 2011
MSDS Author:	Actio Corporation
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.