

**Schedule E**  
**Material Safety Data Sheet**



## MATERIAL SAFETY DATA SHEET

Printed: 4/13/09

### SPOTLEAK 1009

#### PRODUCT IDENTIFICATION AND USE

MANUFACTURER: ARKEMA CANADA INC.  
700 THIRD LINE  
OAKVILLE, ONTARIO  
L6J 5A3

EMERGENCY PHONE NUMBER: (905) 827-9841 (ARKEMA)  
(613) 996-6666 (CANUTEC)

PRODUCT IDENTIFIER: SPOTLEAK 1009

PRODUCT CODE: ORG1009

PRODUCT USE: GAS ODOURANT

WHMIS CLASSIFICATION: D2B - TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS.  
B2 - FLAMMABLE LIQUID.

#### HAZARDOUS INGREDIENTS

	% W/W	CAS #	TLV
TERT-BUTYLMERCAPTAN LD50: 4,729 MG/KG (ORAL-RAT)	60-100	75-66-1	NE
ISOPROPYLMERCAPTAN LD50: 2,000 - 5,000 MG/KG (ORAL-RAT)	10-30	75-33-2	NE

ADDITIONAL INGREDIENT INFORMATION (WHMIS NOT CONTROLLED):  
NA

#### PHYSICAL DATA

PHYSICAL STATE: LIQUID

ODOUR AND APPEARANCE: CLEAR, COLOURLESS LIQUID, GAS-LIKE ODOUR.

ODOUR THRESHOLD: 0.1 PPB

SPECIFIC GRAVITY/DENSITY (G/ML): 0.812 @ 15.5 °C

VAPOUR PRESSURE: 341 MMHG @ 0 °C

VAPOUR DENSITY (AIR=1): 3

VOLATILITY/VOL(%): 100

SOLUBILITY IN H2O: INSOLUBLE @ 20 °C

EVAPORATION RATE: NE

BOILING POINT: 62 °C

FREEZING POINT: <-45 °C

PH: NA

LOG KOW: NE

#### SHIPPING INFORMATION

UN 3336, 3, II, MERCAPTANS, MIXTURE, LIQUID, FLAMMABLE, N.O.S. (T-BUTYL MERCAPTAN, ISOPROPYL MERCAPTAN).

#### FIRE AND EXPLOSION HAZARD

FLAMMABILITY: EXTREMELY FLAMMABLE.

CONDITIONS: SPARKS, OPEN FLAME.

MEANS OF EXTINCTION: WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL. WATER MAY BE INEFFECTIVE.

FLASHPOINT: <-18 °C (0°F) (TCC)

UPPER EXPLOSION LIMIT (% V): 12.1

NA - NOT APPLICABLE

NE - NOT ESTABLISHED



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LOWER EXPLOSION LIMIT (%V): 1.1  
AUTO-IGNITION TEMPERATURE: 245°C  
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, SULFUR OXIDES.  
EXPLOSION DATA: NE  
SENSITIVITY TO IMPACT: NO  
SENSITIVITY TO STATIC DISCHARGE: YES

#### REACTIVITY

CHEMICAL STABILITY: STABLE  
INCOMPATIBLE MATERIALS: STRONG ALKALIS, STRONG OXIDIZERS.  
CONDITIONS OF REACTIVITY: NE  
HAZARDOUS DECOMPOSITION PRODUCTS: NE

#### HEALTH HAZARD INFORMATION

##### ROUTE OF ENTRY

SKIN CONTACT: MAY CAUSE SLIGHT IRRITATION.  
SKIN ABSORPTION: MAY BE ABSORBED.  
EYE: MAY CAUSE SLIGHT IRRITATION.  
INGESTION: MAY CAUSE NAUSEA.  
INHALATION: MAY CAUSE NAUSEA, HEADACHE, AND DIZZINESS.  
ACUTE OVER EXPOSURE EFFECTS: LD50: >2000 MG/KG (DERMAL-RABBIT)  
LC50: >5.3 MG/L (4 HR INHALATION - RAT)  
CHRONIC OVER EXPOSURE EFFECTS: NE  
SENSITIZATION: MAY CAUSE ALLERGIC SKIN REACTION.  
CARCINOGENICITY: DOES NOT MEET WHMIS CRITERIA.  
TERATOGENICITY: DOES NOT MEET WHMIS CRITERIA.  
MUTAGENICITY: DOES NOT MEET WHMIS CRITERIA.  
REPRODUCTIVE TOXICITY: DOES NOT MEET WHMIS CRITERIA.

#### PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: WEAR SAFETY GLASSES AND USE IMPERVIOUS GLOVES. WHERE AIRBORNE EXPOSURE IS LIKELY, WEAR A NIOSH APPROVED RESPIRATOR EQUIPPED WITH AN ORGANIC VAPOUR CARTRIDGE.  
SPECIFIC ENGINEERING CONTROLS: LOCAL EXHAUST IS RECOMMENDED.  
LEAK AND SPILL PROCEDURES: SOAK UP WITH AN ABSORBENT MATERIAL AND PLACE IN A CLOSED CONTAINER. WASH AFFECTED AREAS WITH HOUSEHOLD BLEACH. DO NOT USE SOLID BLEACH FOR NEUTRALIZATION.  
WASTE DISPOSAL: HAZARDOUS WASTE. DO NOT ALLOW PRODUCT TO ENTER THE ENVIRONMENT. CONSULT FEDERAL OR LOCAL AUTHORITIES FOR APPROVED DISPOSAL METHODS.  
HANDLING PROCEDURES AND EQUIPMENT: KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. WHEN TRANSFERRING FROM CONTAINERS, GROUND AND BOND BOTH CONTAINERS. WASH BEFORE EATING, DRINKING, USING TOBACCO PRODUCTS OR REST ROOMS.  
STORAGE REQUIREMENTS: KEEP IN A CLOSED, LABELED CONTAINER IN A VENTILATED AREA. GROUND ALL METAL CONTAINERS DURING STORAGE.

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#### FIRST AID MEASURES

EYE	FLUSH EYES WITH LARGE AMOUNT OF WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS OR PERSISTS.
SKIN	WASH SKIN WITH WATER AND SOAP. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS OR PERSISTS.
INGESTION	DO NOT GIVE LIQUIDS IF PERSON IS UNCONSCIOUS OR VERY DROWSY. DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.
INHALATION	REMOVE PERSON TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, APPLY ARTIFICIAL RESPIRATION AND ADMINISTER OXYGEN IF NECESSARY. SEEK MEDICAL ATTENTION.

#### PREPARATION DATE

PREPARED BY:	TECHNICAL DEPARTMENT.
PHONE NUMBER OF PREPARER:	905-827-9841
DATE PREPARED (MM/DD/YY):	08/16/94
DATE REVISED (MM/DD/YY):	04/13/09

MINIMUM CONTACT WITH THIS AND ALL CHEMICALS IS RECOMMENDED AS A GOOD GENERAL POLICY TO FOLLOW.

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