

**MATERIAL SAFETY DATA SHEET**

Printed: 4/20/09

ISOPHORONE**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: ISOPHORONE

PRODUCT CODE: AP30430

PRODUCT USE: CHEMICAL INTERMEDIATE.

WHMIS CLASSIFICATION: D2B - TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS.
B3 - COMBUSTIBLE LIQUID.

HAZARDOUS INGREDIENTS

	% W/W	CAS #	TLV
ISOPHORONE	60-100	78-59-1	ACGIH TWA = 5 PPM (CEILING)
LD50: 1,500 – 3,450 MG/KG (ORAL-RATS)			
LD50: 1,700-3,160 MG/KG (DERMAL-RATS)			
LC50: 7.0 MG/L (4 HR – INHALATION - RATS)			

ADDITIONAL INGREDIENT INFORMATION (WHMIS NOT CONTROLLED):
NA

PHYSICAL DATA

PHYSICAL STATE: LIQUID

ODOUR AND APPEARANCE: SLIGHT YELLOW LIQUID WITH CAMPHOR ODOUR.

ODOUR THRESHOLD: 0.2 PPM

SPECIFIC GRAVITY/DENSITY (G/ML): 0.923 @ 20°C

VAPOUR PRESSURE: 41 PA @ 20°C

VAPOUR DENSITY (AIR=1): 5.7

VOLATILITY/VOL(%): NE

SOLUBILITY IN H2O: 12 G/L @ 20°C

EVAPORATION RATE: NE

BOILING POINT: 215°C

FREEZING POINT: -8.1°C

PH: NE

LOG KOW: 1.66 (LOG POW)

SHIPPING INFORMATION

THIS PRODUCT IS NOT TDG REGULATED.

FIRE AND EXPLOSION HAZARD

FLAMMABILITY: COMBUSTIBLE

CONDITIONS: WILL BURN ABOVE FLASHPOINT

MEANS OF EXTINCTION: WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY
CHEMICAL. DO **NOT** USE WATER JET.

FLASHPOINT: 85°C

UPPER EXPLOSION LIMIT (% V): 3.8%

LOWER EXPLOSION LIMIT (%V): 0.8%

NA - NOT APPLICABLE

NE - NOT ESTABLISHED

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AUTO-IGNITION TEMPERATURE: 460°C
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON.
EXPLOSION DATA: CLOSED CONTAINERS MAY EXPLODE WHEN SUBJECTED TO HEAT FROM SURROUNDING FIRE. COOL EXPOSED CONTAINERS WITH WATER.
SENSITIVITY TO IMPACT: NO
SENSITIVITY TO STATIC DISCHARGE: NO

REACTIVITY

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

HEALTH HAZARD INFORMATION

ROUTE OF ENTRY
SKIN CONTACT: MAY CAUSE SLIGHT IRRITATION.
SKIN ABSORPTION: NE
EYE: MAY CAUSE IRRITATION.
INGESTION: MAY CAUSE IRRITATION
INHALATION: MAY CAUSE HEADACHE, DIZZINESS AND NAUSEA
ACUTE OVER EXPOSURE EFFECTS: NE
CHRONIC OVER EXPOSURE EFFECTS: PROLONGED INHALATION MAY CAUSE LUNG AND LIVER INJURY.
SENSITIZATION: DOES NOT MEET WHMIS CRITERIA.
CARCINOGENICITY: ACGIH A3 – ANIMAL CARCINOGEN. CAUSES CANCER IN ANIMALS UNDER UNCOMMON CONDITIONS THAT MAY NOT BE RELEVANT TO WORKER EXPOSURE.
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 GOGGLES AND USE IMPERVIOUS GLOVES. WHERE AIRBORNE EXPOSURE IS LIKELY, WEAR A NIOSH APPROVED RESPIRATOR.
SPECIFIC ENGINEERING CONTROLS: LOCAL EXHAUST IS RECOMMENDED.
LEAK AND SPILL PROCEDURES: SOAK UP WITH AN ABSORBENT MATERIAL AND PLACE IN A CLOSED CONTAINER.
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. WASH BEFORE EATING, DRINKING, USING TOBACCO PRODUCTS OR REST ROOMS.
STORAGE REQUIREMENTS: KEEP IN A CLOSED, LABELED CONTAINER IN A VENTILATED AREA. STORE BELOW 50°C.

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ISOPHORONE**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):	04/04/02
DATE REVISED (MM/DD/YY):	04/20/09

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

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