

MATERIAL SAFETY DATA SHEET

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
IDENTIFICATION OF SUBSTANCE	ETHYL IODIDE
SYNONYMS	IDOETHANE, HYDRIODIC ETHER, MONOiodo ETHANE
NAME OF THE SUPPLIER/MANUFACTURER	M/S. OMKAR SPECIALITY CHEMICALS LTD.
ADDRESS FOR CORRESPONDANCE	W-92 (A), M.I.D.C. BADLAPUR, DIST : THANE - 421 503 STATE : MAHARASHTRA, INDIA
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SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENT	
CHEMICAL NAME	ETHYL IODIDE
CAS NO	75-03-6
HAZARD SYMBOLS	TOXIC
RISK PHRASES	10-23/25-37/38-42/43-63

SECTION 3 : HAZARD IDENTIFICATION	
APPEARANCE	CLEAR COLOURLESS LIQUID, MAY DARKENS DUE TO IODINE FORMATION IF EXPOSED TO LIGHT MOISTURE
HEALTH RATING	3 (POISON)
FLAMMABILITY RATING	1 (SLIGHT)
REACTIVITY RATING	1 (SLIGHT)
CONTACT RATING	2 (MODERATE)
POTENTIAL HEALTH EFFECTS	
EYE	MODERATELY IRRITATING TO EYES. CAN CAUSE PERMENENT DAMAGE BY LIQUID SPLASHES
SKIN	MODERATELY IRRITATING TO SKIN, CAUSES RASH AND LOSS OF NATUTAL OILS.
INGESTION	PROBABLY WILL CAUSE PROMPT VOMITING AND GASTROINTESTINAL UPSET
INHALATION	NARCOTIS IN HIGH CONCENTRATIONS CAN CAUSE DROWSINESS AND LETHARGY OF MOVEMENT
CHRONIC EXPOSURE	IODIDES CAN AFFECT NERVOUS SYSTEM AND MOTOR CONTROL AFTER REPEATED EXPOSURE.
AGGRAUATION OF PRE-EXISTING CONDITIONS	PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS, OR IMPAIRED KIDNEY OR RESPIRATOTY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS.

SECTION 4 : FIRST - AID MEASURES	
EYE	IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES OCCASIONALLY LIFTING THE UPPER AND LOWER EYE LIDS.
SKIN	FLUSH SKIN WITH PLENTY OF SOAP AND WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CLOTHING AND SHOES.
INGESTION	NEVER GIVE ANYTHING BY MOUTH. TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING. IF CONSCIOUS AND ALERT, RINSE MOUTH AND DRINK 2-4 CUP FULS OF WATER.
INHALATION	REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO NOT USE MOUTH-TO-MOUTH RESUSCITATION IF VICTIM INGESTED OR INHALED THE SUBSTANCE. INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF A POCKET MASK EQUIPPED WITH A ONE-WAY VALUE OR OTHER APPROVED RESPIRATORY MEDICAL DEVICE.

ALWAYS SEEK MEDICAL AID. CONSULT NEAREST POISON CONTROL CENTRE OR PHYSICIAN WHO IS FAMILIAR WITH CHEMICALS AND ITS AFTER EFFECTS. TREAT SYMPTOMATICALLY AND SUPPORTIVELY ALL FIRST - AID PROCEDURES SHOULD BE PERIODICALLY REVIEWED



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BY AN EXPERIENCED PHYSICIAN.

SECTION 5 : FIRE – FIGHTING MEASURES

GENERAL INFORMATION	AS IN ANY FIRE, WEAR A SELF – CONTAINED BREATHING IN PRESSURE DEMAND, MSHS/NIOSH APPROVED OR EQUIVALENT AND FULLY PROTECTIVE EQUIPMENTS. CAN PRODUCE TOXIC AND CORROSIVE FUMES BY CONTACT WITH IGNITION SOURCE OR AT ALEVATED TEMPERETURE.
EXTINGUISHING MEDIA	POWDER, CARBON DIOXIDE, APPROPRIATE FOAM CAN BE USED. WATER MAY BE INEFFECTIVE. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.
EXPLOSION	WILL REACT WITH WATER OR STEAM TO PRODUCE TOXIC / CORROSIVE FUMES. CAN REACT VIGOROUSLY WITH OXIDIZING MATERIALS.

SECTION 6 : ACCIDENTAL RESEASE MEASURES

GENERAL INFORMATION	USE PROPER PERSONAL PROTECTIVE EQUIPMENTS AS INDICATED IN SECTION 8.
SPILLS / LEAKS	VENTILATE AREA OF LEAK OR SPILL. KEEP WATER AWAY FROM SPILLED MATERIAL. REMOVE ALL SOURCES OF IGNITION. ISOLATE HAZARD AREA. COVER LIQUID WITH POWDER FROM FIRE EXTINGUISHER AND SODIUM BICARBONATE, SODA ASH OR SLAKED LIME AND PLACE INTO A SUITABLE LABELED DISPOSAL CONTAINER. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAW DUST. NOTIFY GOVERENMENT OCCUPATIONAL, HEALTH, SAFETY AND ENVIRONMENTAL AUTHORITIES. REVIEW FEDERAL/STATE/LOCAL GOVERENMENT REQUIREMENT PRIOR TO DISPOSAL. USE NON-SPARKING TOOLS AND EQUIPMENT

SECTION : 7 HANDLING AND STORAGE

HANDLING	USE ONLY IN A WELL VENTILLATED AREA. USE ALL PROTECTIVE SAFETY EQUIPMENT WHILE HANDLING
STORAGE	STORE IN A COOL/DRY PLACE AWAY FROM SOURCE OF HEAT, IGNITION AND IN COMPATIBLE MATERIALS.

SECTION 8 : EXPOSURE CONTROL, PERSONAL PROTECTION

EXPOSURE TO THIS MATERIAL CAN BE CONTROLLED IN MANY WAYS. THE MEASURES APPROPRIATE FOR A PARTICULAR WORKSITE DEPEND ON HOW THIS MATERIAL IS USED AND ON TO THE EXTENT OF EXPOSURE. THIS GENERAL INFORMATION CAN BE USED TO HELP DEVELOP SPECIFIC CONTROL MEASURES. ENSURETHAT, THE CONTROL SYSTEMS ARE PROPERLY DESIGNED AND MAINTAINED. AVOID PROLONGED OR REPEATED EXPOSURE. COMPLY WITH OCCUPATIONAL, ENVIRONMENTAL, FIRE AND OTHER APPLICABLE REGULATIONS.

USE ALL PROTECTIVE SAFETY EQUIPMENTS SUCH AS SAFETY GOGGLES, OR EYE GLASS [AS PER OSHA’S EYE & FACE PROTECTION REGULATIONS IN 29CFR 1910.133 OR EUROPEAN STANDARD EN166], PROPER CLOTHINGS, SAFETY SHOES, APPROVED RESPIRATORS THAT MEETS OSHS’S 29CFR 1910.134 & ANSIZ88.2 REQUIREMENTS OR EUROPEAN STANDARD EN 149 REQUIREMENTS. ALL WAYS CLEAN USED SAFETY WUIPMENT BEFORE REUSE.

ENGINEERING METHODS TO CONTROL EXPOSURE TO WORK PLACE CHEMICALS ARE PREFERED. METHODS INCLUDE MECHANICAL [LOCAL EXHAUST] VENTILLATION, PROCESS – PERSONNEL ENCLOSURES AND CONTROL OF PROCESS CONDITIONS. ADMINISTRATIVE CONTROL MAY ALSO BE REQUIRED. SUPPLY SUFFICIENT REPLACEMENT AIR TO MAKE – UP FOR AIR REMOVED BY EXHAUST SYSTEM.

FACILITIES SHOULD BE EQUIPPED WITH EYEWASH AND SAFETY SHOWER FACILITIES. APPROPRIATE EQUIPMENTS SHOULD BE AVAILABLE FOR USE IN EMERGENCIES SUCH AS SPILLS OR FIRE EXPOSURE LIMITS.

SECTION : 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE / APPEARANCE	CLEAR COLOURLESS LIQUID
ODOUR	CHARACTERISTIC FAINT ETHER LIKE ODOUR
SOLUBILITY	SLIGHTLY SOLUBLE IN WATER
SPECIFIC GRAVITY	ABOUT 1.95

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% VOLATILES BY VOLUME @ 21 ° C (70F)	100
BOILING POINT ° C	ABOUT 72 (162 ° F)
FLASH POINT ° C	ABOUT 53
VAPOUR DENSITY (MM HG)	ABOUT 5.38
VAPOUR PRESSURE (MM HG)	100 @ 18 °C (64 °F)
MOLECULAR FORMULA	CH ₃ CH ₂ I
MOLECULAR WEIGHT	155.97

SECTION : 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY	STABLE AT ROOM TEMPERATURE IN A SEALED CONTAINER. DARKENS ON EXPOSURE TO AIR OR LIGHT DUE TO LIBERATION OF IODINE.
CONDITIONS TO AVOID	INCOMPATIBLE MATERIALS, LIGHT, WATER OR STEAM, OXIDIZING MATERIAL
INCOMPATIBILITIES WITH OTHER MATERIALS	OXIDIZING MATERIAL, SILVER CHLORIDE, MERCURY, MAGNESIUM, STRONG BASES, WATER OR STEAM, HEAT, SOURCE OF IGNITION
HAZARDOUS DECOMPOSITION PRODUCTS	TOXIC IODINE VAPOURS
HAZARDOUS POLYMERIZATION	WILL NOT OCCUR

SECTION : 11 TOXICOLOGICAL INFORMATION

RTECS #	K14750000
RTECS CLASS	MUTAGEN (M)
LISTED ON	THE TOXIC SUBSTANCE CONTROL ACT (TSCA)
LISTED ON	CANADIAN DOMESTIC SUBSTANCES LIDT (CDS)
LISTED ON	AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCE (AICS)
INHALATION RAT LC 50	65000 MG/M ³ /30M. INVESTIGATED AS A MUTAGEN
CANCER LISTS	
<u>INGREDIENT</u>	<u>NTP CARCINOGEN</u> <u>IARC CATEGORY</u>
	<u>KNOWN</u> <u>ANTICIPATED</u>
ETHYL IODIDE (75-03-6)	NO NO NONE
SINCE THE MANNER IN, WHICH EXPOSURE LIMITS ARE ESTABLISHED, INTERPETED, IMPLEMENTED CAN VARY. OBTAIN DETAILED INFORMATION FROM APPROPRIATE AGENCIES IN EACH JURISDICTION.	

SECTION : 12 ECOLOGICAL INFORMATION

NO INFORMATION AVAILABLE

SECTION : 13 DISPOSAL CONSIDERATIONS

WASTE GENERATORS MUST DETERMINE WHETHER DISCARDED CHEMICAL WASTE IN CLASSIFIED AS A HAZARDOUS WASTE. US - EPA GUIDE LINES FOR THE CLASSIFICATION DETERMINATION ARE LISTED IN 40 CFR PARTS 261.3. COLLECT ALL THE COASTE IN A WELL COVERED / LEAK PROOF / LABELED CONTAINERS AND REVIEW FEDERAL / STATE / LOCAL GOVERNMENT REQUIREMENT PRIOR TO DISPOSAL.

SECTION : 14 TRANSPORT INFORMATION

PROPER SHIPPING NAME	TOXIC LIQUID, ORGANIC, N.O.S. (ETHYL IODIDE)
UN NO	1992
HAZARD CLASS	3.0
PACKING GROUP	II
EMS NO	
MFAG NO	

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SECTION : 15 REGULATORY INFORMATION

CHEMICAL INVENTORY STATUS – PART 1

<u>INGREDIENT</u>	<u>TSCA</u>	<u>EC</u>	<u>JAPAN</u>	<u>AUSTRALIA</u>
ETHYL IODIDE (75-03-6)	YES	YES	YES	YES

CHEMICAL INVENTORY STATUS – PART 2

<u>INGREDIENT</u>	<u>KOREA</u>	<u>DSL</u>	<u>CANADA</u> <u>NDSL</u>	<u>PHIL.</u>
ETHYL IODIDE (75-03-6)	YES	YES	NO	YES

FEDERAL, STATE INTERNATIONAL REGULATIONS – PART 1

<u>INGREDIENT</u>	<u>SARA 302</u>		<u>SARA 313</u>	
	<u>RQ</u>	<u>TPQ</u>	<u>LIST</u>	<u>CHEMICAL CATG.</u>
ETHYL IODIDE (75-03-6)	NO	NO	NO	NO

FEDERAL, STATE INTERNATIONAL REGULATIONS – PART 2

<u>INGREDIENT</u>	<u>CERCLA</u>	<u>RCRA</u> <u>261.33</u>	<u>TSCA</u> <u>8 (D)</u>
ETHYL IODIDE (75-03-6)	NO	NO	NO

CHEMICAL WEAPONS CONVENTION : NO

TSCA 12(B): NO,

CDTA : NO

SARA 311/312 : ACUTE : YES

CHRONIC : YES,

FIRE : NO,

PRESSURE : NO

REACTIVITY : NO (PURE/LIQUID)

SECTION : 16 ADDITIONAL INFORMATION.

THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF MATERIAL BY A PERSON TRAINED IN CHEMICAL HANDLING. THE USER IS RESPONSIBLE FOR DETERMINING THE PRECAUTIONS & DANGERS OF THIS CHEMICAL FOR HIS OR HER PARTICULAR APPLICATION DEPENDING ON USAGE. ADEQUATE PROTECTIVE CLOTHING, INCLUDING EYE / FACE GUARDS, APPROVED RESPIRATORS MUST BE USED TO AVOID CONTACT WITH THE MATERIAL OR BREATHING CHEMICAL VAPOURS / FUMES.

EXPOSURE TO THIS PRODUCT MAY CAUSE ADVERSE HEALTH EFFECTS. THIS CHEMICAL MAY INTERACT WITH OTHER SUBSTANCES. SINCE THE POTENTIAL USES ARE SO VARIED, M/S. OMKAR SPECIALITY CHEMICALS . LTD. CANNOT WARN OF ALL OF THE POTENTIAL DANGERS OF USE OR INTERACTION WITH CHEMICALS OF MATERIALS. M/S. OMKAR SPECIALITY CHEMICALS LTD. WARRANTS THAT, THE CHEMICAL MEETS THE SPECIFICATIONS SET FORTH ON THE TEST REPORT.

M/S. OMKAR SPECIALITY CHEMICALS LTD. DISCLAIMS ANY OTHER WARRANTIES EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

THE USER SHOULD RECOGNISE THAT, THIS PRODUCT CAN CAUSE SEVERE INJURY, ESPECIALLY IF IMPROPERLY HANDLED OR THE KNOWN DANGERS OF USE ARE NOT HEEDED.

***** READ ALL PRECAUTIONARY INFORMATIONS. *****