

### **MATERIAL SAFETY DATA SHEET**

SECTION 1 : CHEM	ICAL PRODUCT AND COMPANY IDENTIFICATION
IDENTIFICATION OF SUBSTANCE	POTASSIUM IODIDE
NAME OF THE MANUFACTURER	OMKAR SPECIALITY CHEMICALS LTD.
ADDRESS FOR CORRESPONDENCE	F-24, MIDC, Badlapur (E),
	Dist.Thane - 421503
	State: Maharashtra (India)
TEL.NO.:	91-251-2690651
FAX NO.:	91-251-2691572
EMAIL ID:	rishi@bom8.vsnl.net.in/ omkarchem@vsnl.com

SECTION 2 : COMPOSITION AND INFORMATION ON INGREDIENT				
CHEMICAL NAME	POTASSIUM IODIDE			
CAS NO.	<mark>768</mark> 1-11-0			
RTECS NO.	TT 2975000			
SARA 313	NO Back			

SECTION 3 : HAZARD IDENTIFICATION		
APPEARANCE		WHITE POWDER
TARGET ORGAN	IS	THYROID
HMIS / NFPA RA	ATING	HEALTH - 0, FLAMMABILITY - 0,
		REACTIVITY - 1.
POTENTIAL HEALTH EFFECTS		
EYE	MAY CAUSE EYE IRRITATION.	
SKIN	MAY CAUSE SKIN IRRITATION.	
INHALATION	MAY BE HARMFUL, IF INHALED. MAY BE IRRITATING TO	
	MUCOUS MEMBRANES & UPPER RESPIRATORY TRACT.	
INGESTION	ON MAY BE HARMFUL, IF SWALLOWED.	

SECTION 4 : FIRST-AID MEASURES		
EYE	GET MEDICAL AID IMMEDIATELY. DO NOT ALLOW VICTIM TO RUB EYES OR KEEP	
	EYES CLOSED. IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER ATLEAST FOR	
	30 MINUTES OCCASIONALLY LIFTING LOWER & UPPER EYELIDS.	
SKIN	IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER, WHILE REMOVING	
	CONTAMINATED CLOTHINGS & SHOES.	
INHALATION	REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING IS DIFFICULT, GIVE	
	OXYGEN. INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF APPROVED	
	RESPIRATORY MEDICAL DEVICE.	
INGESTION	IF CONSCIOUS & ALERT, ALLOW VICTIM TO RINSE / WASH MOUTH WITH PLENTY	
	OF WATER & DRINK 2 - 4 CUPFULS OF WATER OR MILK. DO NOT INDUCE	
	VOMITING.	
ALWAYS SEEK	MEDICAL AID IMMEDIATELY CONCULT NEADEST DOISON CONTROL CENTRE OF	

ALWAYS SEEK MEDICAL AID IMMEDIATELY. CONSULT NEAREST POISON CONTROL CENTRE OR PHYSICIAN; WHO IS FAMILIAR WITH CHEMICALS AND ITS AFTER EFFECTS. TREAT SYMPTOMATICALLY ALL FIRST – AID PROCEDURES SHOULD BE PERIODICALLY REVIEWED BY AN EXPERIENCED PHYSICIAN.

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**Regd. & Corporate Office:** B-34, M.I.D.C., Badlapur (E). Dist. Thane, Maharashtra, India. Pin – 421503 Tel.: + 91-251-269 7340/ 269 0651 Fax: + 91 – 251 – 269 1572 / 269 7347 Email: <a href="mailto:omkarchem@vsnl.com">omkarchem@vsnl.com</a> / <a href="mailto:info@omkarchemicals.com">info@omkarchemicals.com</a> Web.: <a href="www.omkarchemicals.com">www.omkarchemicals.com</a>



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SECTION 5 : FIRE - FIGHTING MEASURES		
GENERAL INFORMATION	AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS	
	IN PRESSURE DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) &	
	FULL PROTECTIVE GEAR. IRRATING TOXIC GASES MAY BE	
	GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION.	
EXTINGUISHING MEDIA	IT SHOULD BE APPROPRIATE TO SURROUNDING FIRE CONDITIONS.	
FLASH POINT °C	NOT APPLICABLE	
AUTOIGNITION TEMP °C	NOT APPLICABLE	
EXPLOSION LIMITS	NOT APPLICABLE	

SECTION 6 : ACCIDENTAL RELEASE MEASURES			
GENERAL	USE PROPER PERSONAL PROTECTIVE EQUIPMENTS AS INDICATED IN		
INFORMATION	SECTION 8. PROVIDE VENTILLATION.		
SPILLS/LEAK	SWEEP-UP MATERIAL. PLACE INTO A SUITABLE LABELED DISPOSAL		
	CONTAINER. AVOID GENERATING DUST. WASH SPILL SITE, AFTER		
	MATERIAL PICK-UP IS COMPLETE. NOTIFY GOVERNMENT OCCUPATIONAL,		
	HEALTH, SAFETY AND ENVIRONMETAL AUTHORITIES. REVIEW FEDERAL		
	/ STATE / LOCAL GOVERNMENT AUTHORITIES REQUIREMENT PRIOR TO		
	DISPOSAL.		

	SECTION 7: HANDLING & STORAGE			
HANDLING	MINIMIZE DUST GENERATION & ACCUMULATION. USE ONLY IN A WELL VENTILATED AREA. USE ALL PROTECTIVE SAFETY EQUIPMENTS. KEEP CONTAINER TIGHTLY CLOSED.			
STORAGE	STORE IN A COOL, DRY, WELL - VENTILATED AREA AWAY FROM HEAT, SPARK, OPEN FLAME, SOURCES OF IGNITION, INCOMPATIBLE MATERIALS, CORROSIVE AREA. DO NOT EXPOSE TO AIR, LIGHT. STORE UNDER INERT ATMOSPHERE.			

### **SECTION 8: EXPOSURE CONTROLS & 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. ENSURE THAT, 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 EQUIPMENT 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.

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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 & CHEMICAL PROPERTIES		
APPEARANCE	••	WHITE SOLID
MOLECULAR FORMULA	:	KI
MOLECULAR WEIGHT	:	166.01
pH	:	6 TO 9
BOILING POINT °C	:	ABOUT 1330
MELTING POINT °C		ABOUT 681
VAPOUR PRESSURE	:	1 mm Hg at 745 °C
VAPOUR DENSITY		NOT AVAILABLE
SPECIFIC GRAVITY	:	3.13 g/cm3
BULK DENSITY		1700 kg/lt
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SECTION 10 : STABILITY & REACTIVITY		
CHEMICAL STABILITY	STABLE UNDER NORMAL STORAGE CONDITIONS.	
CONDITIONS TO AVOID	INCOMPATIBLE MATERIALS, LIGHT, HEAT, SPARK,	
	FLAME ETC.	
INCOMPATIBILITY WITH	TIN, STRONG REDUCING AGENTS, NICKEL, STRONG	
	ACIDS, STEEL, ALUMINIUM, ALKALI METALS, BRASS,	
	MAGNESIUM ZINC, CADMIUM, COPPER.	
HAZARDOUS DECOMPOSITION	HYDROGEN IODIDE, POTASSIUM OXIDES.	
HAZARDOUS POLYMERIZATION	WILL NOT BEEN OCCUR	

SECTION 11: TOXICOLOGICAL INFORMATION		
SENSITIZATION	PROLONGED OR REPEATED EXPOSURE MAY CAUSE ALLERGIC REACTION IN	
	CERTAIN SENSITIVE INDIVIDUALS.	
SIGNS &	PROLONGED EXPOSURE TO IODIDES MAY PRODUCE IODISM IN SENSITIVE	
SYMPTOMS OF	INDIVIDULS. SYMPTOM : SKIN RASH, RUNNING NOSE, HEADACHE,	
EXPOSURE	IRRITATION OF MUCOUS MEMBRANES. SKIN MAY SHOW PIMPLES, BOILS,	
	HIVES, BLISTERS AND BLACK & BLUE SPOTS. IODIDES ARE READILY	
Λ Ι	DIFFUSED ACROSS THE PLACENTA. NEONATAL DEATHS FROM	
AI	RESPIRATORY DISTRESS SECONDARY TO GOITER HAVE BEEN REPORTED.	
7 41	IODIDES HAVE BEEN KNOWN TO CAUSE DRUG - INDUCED FEVERS, WHICH	
	ARE USUALLY OF SHORT DURATION.	
CHRONIC	EXPOSURE TO EXCESSIVE AMOUNTS OF IODINE DURING PREGNANCY IS	
EXPOSURE -	CAPABLE OF PRODUCING FETAL HYPOTHYROIDISM.	
TERATOGEN		
SPECIES	WOMEN	
DOSE	2700 mg/kg, 3240 mg/kg	
ROUTE OF	ORAL	
APPLICATION		
EXPOSURE TIME	(1 – 39 W PREG)	
RESULT	SPECIFIC DEVELOPMENTAL ABNORMALITIES :	
	ENDOCRINE SYSTEM.	
	EFFECTS ON NEWBORN: OTHER NEONATAL MEASURES OR EFFECTS.	



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CHRONIC EXPOSURE	MUTAGEN
SPECIES	RAT
DOSE	500 mg/kg
CELL TYPE	ASCITES TUMOR
MUTATION TEST	CYTOGENETIC ANALYSIS

CHRONIC EXPOSURE	REPRODUCTIVE HAZARDS
SPECIES	RAT
DOSE	10530 mg/kg
ROUTE OF APPLICATION	ORAL
EXPOSURE TIME	( 1-9 D PREG )
RESULTS	EFFECTS ON FERTILITY: PRE-IMPLANTATION MORTALITY (e.g. REDUCTION IN NUMBER OF IMPLANTS PER FEMAL; TOTAL NUMBER OF IMPLANTS PER CORPORA LUTEA). EFFECTS ON EMBRYO OR FETUS: FETOTOXICITY (EXCEPT DEATH, e.g. STUNTED FETUS)
SPECIES	RAT O D C C C C C C C C C C C C C C C C C C
DOSE	922 mg/kg
ROUTE OF APPLICATION	ORAL
EXPOSURE TIME	( 2W MALE / 2W PRE-21D POST )
RESULTS	EFFECTS ON NEW BORN: VIABILITY INDEX (e.g. # ALIVE AT DAY 4 PER # BORN ALIVE)
SPECIES	RAT
DOSE	300 mg/kg
ROUTE OF APPLICATION	ORAL
EXPOSURE TIME	( 9 D PREG )
RESULTS	EFFECTS ON FERTILITY: POST-IMPLANTATION MORTALITY (e.g. DEAD AND / OR RESORBED IMPLANTS PER TOTAL NUMBER OF IMPLANTS) EFFECTS ON EMBRYO OR FETUS: FETOTOXICITY (EXCEPT DEATH, e.g. STUNTED FETUS). EFFECTS ON EMBRYO OR FETUS: FATAL DEATH.

### **SECTION 12: ECOLOGICAL INFORMATION**

NO DATA AVAILABLE. HOWEVER, DO NOT ALLOW MATERIAL TO BE RELEASED TO THE ENVIRONMENT, WITHOUT PROPER GOVERNMENTAL PERMITS.

### **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 GOVERENMENT REQUIREMENT PRIOR TO DISPOSAL.

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#### **SECTION: 14 TRANSPORT INFORMATION**

THIS PRODUCT IS CONSIDERED TO BE NON HAZARDOUS FOR AIR & SEA TRANSPORT.

**SECTION: 15 REGULATORY INFORMATION** 

#### **US CLASSIFICATION & LABEL TEXT**

US STATEMENTS: TARGET ORGAN - THYROID

**US REGULATORY INFORMATION** 

SARA LISTED: NO

TSCA INVENTORY ITEM: YES

CANADA REGULATORY INFORMATION

DSL: YES NDSL: NO

#### **SECTION: 16 ADDITIONAL INFORMATION**

THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPRORIATE PRECAUTIONARY HANDLING OF MATERIAL BY A PERSON TAIMED IN CHEMICAL HANDLING. THE USER IS RESPONSIBLE FOR A DETERMING 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.

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