

MATERIAL SAFETY DATA SHEET

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
IDENTIFICATION OF SUBSTANCE	SELENIOS ACID
SYNONYMS	SELENIUM DIOXIDE MONOHYDRATE
NAME OF THE MANUFACTURER/ SUPPLIER	OMKAR SPECIALITY CHEMICALS LTD.
ADDRESS FOR CORRESPONDENCE	W-92 (A), MIDC, Badlapur (E), Dist.Thane – 421503 State: Maharashtra (India)
TEL.NO.:	91-251-2690651/2691602/2697319
FAX NO.:	91-251-2691572
EMAIL ID:	info@omkarchemicals.com / omkarchem@vsnl.com

SECTION 2 : COMPOSITION AND INFORMATION ON INGREDIENT	
CHEMICAL NAME	SELENIOS ACID
CAS NO.	7783 – 00 – 8
EINECS NO.	2319747
RTECS NO.	VS 7175000

SECTION 3 : HAZARD IDENTIFICATION	
APPEARANCE	SOLID
TARGET ORGANS	LIVER
POTENTIAL HEALTH EFFECTS	
EYE	IRRITATING TO EYES. SERIOUS RISK OF DAMAGE TO EYES
SKIN	IRRITATING TO SKIN
INHALATION	IRRITATING TO RESPIRATORY SYSTEM
INGESTION	HARMFUL IF SWALLOWED

SECTION 4 : FIRST-AID MEASURES	
EYE	IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR ATLEAST 15 MINUTES OCCASIONALLY LIFTING LOWER & UPPER EYE LIDS.
SKIN	IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER ATLEAST FOR 15 MINUTES, WHILE REMOVING CONTAMINATED CLOTHINGS & SHOES.
INHALATION	REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO NOT USE MOUTH TO MOUTH RESSUSCITATION IF PERSON HAS INHALED THE SUBSTANCE INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF APPROVED MEDICAL DEVICE.
INGESTION	IF SWALLOWED, WASHOUT MOUTH WITH PLENTY OF WATER PROVIDED A PERSON IS CONSCIOUS. DO NOT INDUCE VOMITING. IF PERSON IS CONSCIOUS, ALLOW HIM TO DRINK 2-4 CUPFULS OF WATER.

Contd...2....

: 2 :

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

SECTION 5 : FIRE – FIGHTING MEASURES

GENERAL INFORMATION	AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS (MSHA/NIOSH (APPROVED OR EQUIVALENT) & FULLY PROTECTIVE GEAR. DURING A FIRE, TOXIC IRRATING GASES MAY BE GENERATED.
EXTINGUISHING MEDIA	CARBON DIOXIDE, DRY CHEMICAL POWDER, WATER SPRAY OR IT SHOULD BE APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION	USE PROPER PERSONAL PROTECTIVE EQUIPMENTS AS INDICATED IN SECTION 8. PROVIDE VENTILATION.
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 ENVIRONMENTAL AUTHORITIES. REVIEW FEDERAL / STATE / LOCAL GOVERNMENT AUTHORITIES REQUIREMENT PRIOR TO DISPOSAL.

SECTION 7 : HANDLING & STORAGE

HANDLING	USE ONLY IN A WELL VENTILATED AREA. AVOID DUST GENERATION. USE ALL PROTECTIVE SAFETY EQUIPMENTS.
STORAGE	KEEP TIGHTLY CLOSED & STORE IN A COOL DRY PLACE. CHEMICAL IS HYGROSCOPIC . KEEP AWAY FROM HEAT, SPARK, OPEN FLAME, SOURCES OF IGNITION.

Contd...3....

SECTION 8 : EXPOSURE CONTACT & 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 PREFERRED. 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 & CHEMICAL PROPERTIES

APPEARANCE	:	WHITE SOLID
MOLECULAR FORMULA	:	H2O3Se
MOLECULAR WEIGHT	:	128.97
SOLUBILITY	:	VERY SOLUBLE IN WATER
DENSITY	:	ABOUT 3.004

SECTION 10 : STABILITY & REACTIVITY

CHEMICAL STABILITY	:	STABLE
CONDITION TO AVOID	:	MOISTURE, HEAT, SPARK, OPEN FLAME, SOURCES OF IGNITION.
INCOMPATIBILITIES WITH	:	STRONG REDUCING AGENTS COMBUSTIBLE MATERIAL.
HAZARDOUS DECOMPOSITION PRODUCTS	:	HYDROGEN SELENIDE

Contd...4...

: 4 :

SECTION 11 : TOXICOLOGICAL INFORMATION

RTECS NO.	VS7175000
ACUTE TOXICITY	LD50:IVN-MUS11mg/kg
MAY CAUSE DAMAGE TO LIVER	

SINCE THE MANNER IN WHICH EXPOSURE LIMITS ARE ESTABLISHED, INTERPRETED, IMPLEMENTED CAN VARY, OBTAIN DETAILED INFORMATION FROM APPROPRIATE AGENCIES IN EACH JURISDICTION.

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 GOVERNMENT REQUIREMENT PRIOR TO DISPOSAL.

SECTION : 14 TRANSPORT INFORMATION

SHIPPING NAME	SELENIUM COMPOUNDS, SOLID, N.O.S
UN NO	3283
HAZARD CLASS	6.1
PACKING GROUP	II
IMDG NO.	6249 -1
EMS NO.	6.1 - 04
MFAG NO.	†

SECTION : 15 REGULATORY INFORMATION

TSCA LISTED SUBSTANCE
PLEASE REFER TO SECTION 3 , 4 & 8 MSDA

Contd...5....

: 5 :

SECTION : 16 ADDITIONAL INFORMATION

THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE 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 HEDED.

READ ALL PRECAUTIONARY INFORMATIONS.
