

MATERIAL SAFETY DATA SHEET

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
IDENTIFICATION OF SUBSTANCE	SODIUM SELENITE
SYNONYMS	DISODIUM SELENITE
NAME OF THE MANUFACTURER	OMKAR SPECIALITY CHEMICALS LTD.
ADDRESS FOR CORRESPONDENCE	W-92 (A), MIDC, Badlapur (E), Dist.Thane - 421503 State: Maharashtra (India)
TEL.NO.:	91-251-2690651
FAX NO.:	91-251-2691572
EMAIL ID:	info@omkarchemicals.com / omkarchem@vsnl.com
SECTION 2 : COMPOSITION AND INFORMATION ON INGREDIENT	
CHEMICAL NAME	SODIUM SELENITE
CAS NO.	10102 - 18 - 8
RTECS NO.	VS7350000
EC NO.	2332679
SECTION 3 : HAZARD IDENTIFICATION	
APPEARANCE	OFFWHITE TO WHITE SOLID
HAZARD SYMBOL	T
TARGET ORGANS	LIVER
POTENTIAL HEALTH EFFECTS	
EYE	CAUSES IRRITATION
SKIN	CAUSES IRRITATION
INHALATION	TOXIC
INGESTION	TOXIC
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES & UPPER RESPIRATORY TRACT OVER EXPOSURE MAY CAUSE REPRODUCTION DISORDER. OVER EXPOSURE MAY HAVE MUTAGENIC EFFECTS & THE TARGET ORGAN IS LIVER. POSSIBLE RISK OF HARM TO UNBORN CHILD.	
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 .
INHALATION	REMOVE THE VICTIM TO FRESH AIR . IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO NOT USE MOUTH TO MOUTH RESUSCITATION IF VICTIM HAS INHALED THE SUBSTANCE. INDUCE ARTIFICIAL RESPIRATION WITH APPROVED RESPI-RATORY MEDICAL DEVICE.
INGESTION	NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING.IF CONSCIOUS AND ALERT, RINCE MOUTH THOROUGHLY & ALLOW THE VICTIM TO DRINK 2-4 CUPFULS OF WATER.

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ALWAYS SEEK MEDICAL AID IMMEDIATELY. 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 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, IRRATING TOXIC GASES MAY BE GENERATED.
EXTINGUISHING MEDIA	USE NON COMBUSTIBLE EXTINGUISHING MEDIA OR IT SHOULD BE APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION	EVACUATE AREA. USE PROPER PERSONAL PROTECTIVE EQUIPMENTS AS INDICATED IN SECTION 8. PROVIDE VENTILATION.
SPILLS / LEAK	ABSORB ON SAND OR VERMICULITE. SWEEP UP AREA. COLLECT & PLACE THE MATERIAL IN A CLOSED LABELLED CONTAINER FOR DISPOSAL. WASH SPILL SITE AFTER MATERIAL PICK UP IS COMPLETED. REVIEW FEDERAL / STATE/ LOCAL REGULATION PRIOR TO DISPOSAL & ACT ACCORDINGLY. NOTIFY GOVERNMENT OCCUPATIONAL, HEALTH, SAFETY, FIRE & ENVIRONMENTAL AUTHORITIES.

SECTION 7 : HANDLING & STORAGE

HANDLING	USE ONLY IN A WELL VENTILATED AREA. AVOID DUST GENERATION. USE ALL PROTECTIVE SAFETY EQUIPMENTS.
STORAGE	KEEP AWAY FROM HEAT, SPARK, FLAME, SOURCES OF IGNITION AND INCOMPATIBLE MATERIALS. STORE IN A COOL/DRY PLACE TIGHTLY CLOSED. MATERIAL IS VERY MOISTURE SENSITIVE
STORAGE CATEGORY	E

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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. 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, [AS PER OSHA'S EYE & FACE PROTECTION REGULATIONS IN 29 CFR 1910.133 OR EUROPEAN STANDARD EN166], PROPER CLOTHINGS, SAFETY SHOES, APPROVED RESPIRATORS THAT MEETS OSHAS'S 29CFR 1910.134 & ANSIZ88.2 REQUIREMENTS OR EUROPEAN STANDARD EN 149 REQUIREMENTS. ALWAYS CLEAN USED SAFETY EQUIPMENTS 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

APPERANCE	:	WHITE TO OFFWHITE SOLID
MOLECULAR FORMULA	:	Na ₂ SeO ₃
MOLECULAR WEIGHT	:	172.94
SENSITIVE TO	:	MOISTURE
SOLUBILITY	:	SOLUBLE IN WATER.
% ASSAY (MIN)	:	98.0

SECTION 10 : STABILITY & REACTIVITY DATA

CHEMICAL STABILITY	:	STABLE UNDER NORMAL STORAGE CONDITIONS.
CONDITION TO AVOID	:	MOISTURE & INCOMPATIBLE MATERIAL
INCOMPATIBILITY WITH	:	STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS	:	SELENIUM / SELENIUM OXIDES

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SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICITY DATA WITH REFERENCE

Dnr - sat : 10 mg / plate caledq 10,75,80
 Dni - hmn:hla : 25 mmol/L Toled 525,219,85
 Cyt- hmn: fbr : 80 mmol/L Bterdg 2,81,80
 Orl - mus :TDLO : 112 mg/kg (female 6-13 D post) :REP TCMUD 87,29,87
 Scu - mus : TDLO : 1729 mg/KG (female 16 D post) : TER IN HEAO 23,95,85
 Orl - rat : LDLO : 5476 mg/kg JPETAB 58,454,36
 Ipr - rat : LD50 : 3 mg/kg JPETAB 58,454,36
 Par - rat : LD50 : 6570 mg/kg CTOXAO 17,171,80
 Orl - mus : LD50: 7mg/kg HYSAAV 35,176,70
 Ivn - mus : LD50 : 5 mg/ kg NRXTDN 2,383,81
 Icv - mus : LD50 : 300 mg/kg NRXTDN 2,383,81
 Scu - dog : LDLO: 4mg/ kg EQSSDX 1,1,75
 Ivn - dog : LD50 : 1916 mg/kg PSDAA2 36,173,57
 Ims - rbt : LD50 : 2530 mg/ kg AXVMAW 30,627,76

REPORTED IN TSCA INVENTORY

OSHA PEL - TWA 0.2 mg (Se) /m³

ACGIH TLV - TWA 0.2 mg(Se) /m³

DFG MAK - 0.1 mg (Se) / m³

DOT CLASSIFICATION - POISON B, LABEL : POISON

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

SECTION 12 : ECOLOGICAL INFORMATION

NO DATA AVAILABLE. HOWEVER, DO NOT RELEASE MATERIAL TO ENVIRONMENT, WITHOUT PROPER GOVERNMENTAL PERMITS.

SECTION : 13 DISPOSAL CONSIDERATIONS

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

SECTION : 14 TRANSPORT INFORMATION

SHIPPING NAME	SELENATES & SELENITES
UN NO	2630
PACKING GROUP	I
HAZARD CLASS	6.1
IMDG NO.	6249
EMS NO.	6.1 - 04
MFAG NO.	175,225

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SECTION : 15 REGULATORY INFORMATION

PRODUCT IS HARMFUL, TOXIC. PLEASE REFER TO SECTION 3, 4, 8 OF MSDS.

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 HEDED.

"READ ALL PRECAUTIONARY INFORMATIONS. "

Always the leaders