

MATERIAL SAFETY DATA SHEET OF BENZENE SELENINIC ANHYDRIDE

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTIFICATION	BENZENE SELENINIC ANHYDRIDE, 98%
OF SUBSTANCE	
SYNONYMS	NONE
NAME OF THE MANUFACTURER	OMKAR SPECIALITY CHEMICALS LTD.
ADDRESS FOR CORRESPONDENCE	B -34 MIDC, Badlapur (E),
	Dist.Thane – 421503
	State: Maharashtra (India)
TEL.NO.:	91-251-2697340
FAX NO.:	91-251-2697347

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENT

CHEMICAL NAME	BENZENE SELENINIC ANHYDRIDE, 98%
CAS NO.	17697-12-0
EINECS NO.	241-701-3
HAZARD SYMBOL	T – VERY TOXIC – IRRITANT

SECTION 3: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE	ALMOST WHITE SOLID. THE TOXICOLOGICAL
	PROPERTIES OF THIS MATERIAL HAVE NOT
	BEEN FULLY INVESTIGATED. MOISTURE
	SENSITIVE. VERY TOXIC & IRRITANT IN
	NATURE.

POTENTIAL HEALTH EFFECTS	
EYE	MAY CAUSE IRRITATION.
SKIN	SKIN IRRITATION & OTHER POTENTIAL EFFECTS WAS FOUND.
INGESTION	VERY TOXIC
INHALATION	VERY TOXIC
CHRONIC	NO INFORMATION FOUND

SECTION 4 : FIRST-AID MEASURES

		EYE	IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR ATLEAST 15 MINUTES OCCASIONALLY LIFTING LOWER & UPPER EYE LIDS.
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	GET MEDICAL AID IMMEDIATELY.
SKIN	FLUSH SKIN WITH PLENTY OF SOAP AND WATER AT LEAST FOR
	15 MINUTES.
INGESTION	IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-4 CUPFULS OF MILK
	OR WATER. GET MEDICAL AID IMMEDIATELY. WASH
	MOUTH OUT WITH WATER.
INHALATION	GET MEDICAL AID IMMEDIATELY. REMOVE FROM EXPOSURE AND
	REMOVE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE
	ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE
	OXYGEN.

ALWAYS SEEK MEDICAL AID IMMEDIATELY. CONSULT NEAREST POSION CONTROL CENTRE OR PHYSICIAN WHO IS FAMILIAR WITH CHEMICALS AND ITS AFTER EFFECTS.

NOTES TO PHYSICIAN: TREAT SYMPOTOMATICALLY & SUPPORTIVELY. ALL FIRST – AID PROCEDURES SHOULD BE PERIODICALLY REVIEWED BY AN EXPERIENCED PHYSICIAN.

SECTION 5 : FIRE – FIGHTING MEASURES	
GENERAL	AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING
INFORMATION	APPARATUS MSHA/NIOSH (APPROVED OR EQUIVALENT)
	& FULLY PROTECTIVE GEAR. DURING FIRE TOXIC
	GASES MAY BE GENERATED.
EXTINGUISHING MEDIA	USE CARBON DIOXIDEOR EXTINGUISHING MEDIA
	SHOULD BE APPROPRIATE TO SURROUNDING FIRE
	CONDITIONS.
FLASH POINT	NOT AVAILABLE
AUTOIGNITION TEMP.	NOT AVAILABLE
EXPLOSION	NOT AVAILABLE
LIMIT, LOWER	
UPPER	NOT AVAILABLE

SECTION 6 : ACCIDENTAL RESEASE MEASURES		
GENERAL	USE PROPER PERSONAL PROTECTIVE SAFETY EQUIPMENTS AS	
INFORMATION	INDICATED IN SECTION 8. PROVIDE VENTILLATION. ISOLATE	
	HAZARD AREA. COLLECT ALL	
	THE MATERIAL IN A SUITABLE LABELED DISPOSAL CONTAINER &	
	NOTIFY GOVERNMENT OCCUPATIONAL HEALTH, SAFETY AND	
	ENVIRONMENTAL AUTHORITIES. REVIEW FEDERAL/STATE/LOCAL	
	GOVERNMENT REQUIREMENT PRIOR TO DISPOSAL.SWEEP	
	UP/CLEAN AREA AFTER MATERIAL PICK-UP IS COMPLETED.	

SECTION 7 : HANDLING & STORAGE	
HANDLING	USE ONLY IN A WELL VENTILATED AREA. AVOID DUST
	GENERATION. USE ALL PROTECTIVE SAFETY EQUIPMENTS.

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STORAGE

KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, SOURCES OF IGNITION AND OTHER INCOMPATIBLE MATERIALS. STORE IN A COOL/DRY PLACE TIGHTLY SEALED.

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 REOUIREMENTS. ALWAYS CLEAN USED SAFETY EOUIPMENTS BEFORE REUSE.

ENGINEERING METHODS TO CONTROL EXPOSURE TO WORK PLACE CHEMICALS ARE

PREFERED. METHODS INCLUDE MECHANICAL [LOCAL EXHAUST1 VENTILLATION, PROCESS - PERSONNEL ENCLOSURES AND CONTROL OF CONDITIONS. ADMINISTRATIVE CONTROL PROCESS 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	
PHYSICAL STATE	: WHITE CRYSTALLINE POWDER
APPEARANCE	: ALMOST WHITE
ODOUR	: NOT AVAILABLE
Ph	: NOT AVAILABLE
VAPOUR PRESSURE	: NOT AVAILABLE
VAPOUR DENSITY	: NOT AVAILABLE
EVAPORATION RATE	: NOT AVAILABLE
ASSAY	: 99.00% - 100.50%
BOILING POINT C	: NOT AVAILABLE
MELTING POINT ^O C	: 165 - 170 ^O C
DECOMPOSITION TEMP.	: NOT AVAILABLE

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SOLUBILITY
SPECIFIC GRAVITY/DENSITY
MOLECULAR FORMULA
MOLECULAR WEIGHT

: FAINT OPALESCENCE : NOT AVAILABLE : [C₆H₅Se (O)]₂O : 360.13

SECTION 10 : STABILITY & REACTIVITY DATA

CHEMICAL STABILITY	: STABLE UNDER NORMAL STORAGE CONDITIONS.
CONDITION TO AVOID	: INCOMPATIBLE MATERIALS. EXPOSURE TO MOIST AIR OR WATER.
INCOMPATIBILITY WITH OTHER	BASES – OXIDIZING AGENTS –METALS.
MATERIALS	· BASES - OAIDIZING AGENTS -METALS.
HAZARDOUS DECOMPOSITION	: CARBON MONOXIDE, CARBON DIOXIDE,
PRODUCTS	SELENIUM/SELENIUM OXIDES.
HAZARDOUS POLYMERIZATION	: HAS NOT BEEN REPORTED.

SECTION 11 : TOXICOLOGICAL INFORMATION

RTECS #	CAS # 17697-12-0 UNLISTED
ORAL LD 50	30 Mg. / Kg.
DERMAL KD 50	220 Mg / Kg.
INHALATION LC 50	5.8 Mg / L
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<u>CARCINOGENICITY</u>		
CAS#	:	17697-12-0
IARC: IARC GROUP 3.	:	NOT CLASSIFIALE [LISTED AS SELENIUM COMPOUND)

SECTION 12 : ECOLOGICAL INFORMATION

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

SECTION : 13 DISPOSAL CONSIDERATIONS

CHEMICAL WASTE GENERATORS MUST DETERMINE WHETHER DISCARDED CHEMICAL WASTE IS CLASSIFIED AS A HAZARDOUS WASTE. US – EPA GUIDELINES FOR THE CLASSIFICATION DETERMINATION ARE LISTED IN 40 CFR PARTS 261.3. ADDITIONALLY, WASTE GENERATORS MUST CONSULT STATE AND LOCAL HAZARDOUS WASTE REGULATIONS TO ENSURE COMPLETE AND ACCURATE CLASSIFICATION.

SECTION : 14 TRANSPORT INFORMATION

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SECTION : 1:	5 REGULATORY INFORMATION
•	<u>US FEDERAL</u>
TSCA – CAS # 17697-12-0 IS LISTE RESEARCH & DEVELOPMENT US	D ON THE TSCA INVENTORY. IT IS FOR
HEALTH & SAFETY REPORTING LIST	NONE OF THE CHEMICALS ARE ON THE HEALTH SAFETY REPORTING LIST
CHEMICAL TEST RULES	NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER A CHEMICAL TEST RULE
· <u>SECTION 12 b</u>	NONE OF THE CHEMICALS ARE LISTED UNDER TSCA SECTION 12 b
TSCA SIGNIFICANT NEW USE RULE	NONE OF THE CHEMICALS ARE IN THIS MATERIAL HAVE A SNUR UNDER TSCA
SARA	
CERCLA HAZARDOUS SUBSTANCES &	NONE OF THE CHEMICALS IN THIS MATERIAL HAVE AN RQ
CORRESPONDING RQs	
SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES	NONE OF THIS CHEMICALS IN THIS MATERIAL HAVE A TPQ
	SECTION 313
THIS MATERIAL CONTAINS SELENIUM COMPOUNDS], 09% REPORTING REQUIREMENTS AO	BENZENE SELENINIC ANHYDRIDE [LISTED AS [CAS# 17697-12-0] WHICH IS SUBJECT TO THE F SECTION 313 OF SARA TITLE III AND 40 CFR PAUT

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CLEAN AIR AET

THIS MATERIAL DOES NOT CONTAIN ANY HAZARDOUS AIRPOLLUTANTS. THIS MATERIAL DOES NOT CONTAIN ANY CLASS 1 OZONE DEPLETORS. THIS MATERIAL DOES NOT CONTAIN ANY CLASS 2 OZONE DEPLETORS.

CLEAR WATER ACT

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS HAZARDOUS SUSTANCES UNDER THE CWA. NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS PRIORITY POLLUTANTS UNDER THE CWA. NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS TOXIC POLLUTANTS UNDER CWA

UN NO	3467
HAZARD CLASS	6.1
PACKING GROUP	II
FOR IATA	6249-1
EMS NO.	6.1 - 04
MFAG NO.	175
PROPER SHIPPING NAME	ORGANOMETALLIC COMPOUND, TOXIC
	SOLID, N.O.S. [BENZENE SELENINIC
	ANHYDRIDE

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<u>OSHA</u>

NONE OF THE CHEMICALS IN THIS PRODUCT ARE CONSIDERED HIGHLY HAZARDOUS BY OSHA.

<u>STATE</u>

CAS # 17697-12-0 IS NOT PRESENT ON STATE LISTS FROM CA, PA, MN, MA, FL, OR NJ. CALIFORNIA NO SIGNIFICANT RISK LEVEL: NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED.

EUROPEAN / INTERNATIONAL REGULATIONS EUROPEAN LABELING IN ACCORDANCE WITH EC DIRECTIVES HAZARD SYMBOL : T

RISK PHRASES :

*R 23/25 TOXIC BY INHALATION AND IF SWALLOWED. *R33 DANGER OF CUMULATIVE EFFECTS.

SAFETY PHRASES :

*S 20/21 WHEN USING DO NOT EAT, DRINK OR SMOKE.

*S 45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL

ADVISE IMMEDIATELY [SHOW THE LABEL WHERE POSSIBLE].

*S 28A AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.

WGK (WATER DANGER / PROTECTION)

CAS # 17697-12-0 : NO INFORMATION AVAILABLE.

CANADA DSL / NDSL

*NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED ON THE DSL OR NDSL LIST. CANADA-WHMIS. THIS PRODUCT HAS A WHMIS CLASSIFICATION OF D1A, D2B.

CANADIAN INGREDIENT DISCLOSURE LIST

CAS # 17697-12-0 : [LISTED AS SELENIUM COMPOUNDS] IS LISTED ON THE CANADIAN INGREDIENT DISCLOSURE LIST.

SECTION: 16 ADDITIONAL INFORMATION

This document is intended only as a guide to the appropriate precautionary han of material by a person trained in chemical handling. the user is responsibl determining the precautions & dangers of this chemical for his or her parti application depending on usage. adequate protective clothing, including eye / guards, approved respirators must be used to avoid contact with the materi 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 pvt. ltd. cannot warn of all of the potential dangers of use or



interaction with chemicals of materials. m/s. omkar speciality chemicals pvt. Ltd. Warrants that, the chemical meets the specifications set forth on the test report. M/s. Omkar speciality chemicals pvt. 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."