

## MATERIAL SAFETY DATA SHEET

<b>SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION</b>	
IDENTIFICATION OF SUBSTANCE	<b>PERIODIC ACID SOLUTION</b>
SYNONYMS	<b>PARA PERIODIC ACID</b>
NAME OF THE MANUFACTURER/ SUPPLIER	OMKAR SPECIALITY CHEMICALS PVT. LTD.
ADDRESS FOR CORRESPONDENCE	W-92 (A), MIDC, Badlapur (E), Dist.Thane – 421503 State: Maharashtra (India)
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<b>SECTION 2 : COMPOSITION AND INFORMATION ON INGREDIENT</b>	
CHEMICAL NAME	PERIODIC ACID SOLUTION
CAS NO.	10450-60-9
HAZARD LABEL	CORROSIVE LIQUID, OXIDIZING NOS.

<b>SECTION 3 : HAZARD IDENTIFICATION</b>	
APPEARANCE	CLEAR COLOURLESS LIQUID
DESIGNATION	CORROSIVE – OXIDISING AGENT
<b>POTENTIAL HEALTH EFFECTS</b>	
EYE	CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BURNS & BLURRED VISION.
SKIN	CAN CAUSE IRRITATION, DEFATTING, DERMATITIS, MINOR BURNS.
INHALATION	CAN CAUSE NASAL & RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE OR DEATH.
INGESTION	CAN CAUSE IRRITATION & BURNS TO THE DIGESTIVE TRACT, NAUSEA, VOMITING, DIARRHEA.
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## 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 RESUSCITATION 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.

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	MATERIAL IS OXIDIZING CORROSIVE WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE. SUITABLE – NONCOMBUSTIBLE OR APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

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## SECTION 6 : ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION	USE PROPER PERSONAL PROTECTIVE EQUIPMENTS AS INDICATED IN 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	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 AWAY FROM HEAT, SPARK, OPEN FLAME, SOURCES OF IGNITION, COMBUSTIBLE MATERIALS. PROTECT FROM MOISTURE.

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## 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	:	CLEAR COLOURLESS LIQUID
MOLECULAR FORMULA	:	H <sub>5</sub> IO <sub>6</sub>
MOLECULAR WEIGHT	:	227.94
PH	:	ABOUT 0.50
DENSITY	:	ABOUT 1.50
BOILING POINT °C	:	> 100.0
FLASH POINT (TCC)	:	> 200.0

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## SECTION 10 : STABILITY & REACTIVITY

CHEMICAL STABILITY	:	STABLE UNDER NORMAL STORAGE CONDITIONS.
CONDITIONS TO AVOID	:	MOISTURE, SOURCES OF IGNITION, HEAT, FLAME, SPARK.
INCOMPATIBILITY WITH	:	REDUCING AGENTS, WOOD, PAPER, MANY ORGANICS, DMSO, TETRA ETHYL AMMONIUM HYDROXIDE, FINELY POWDERED METALS, STRONG BASES.
HAZARDOUS DECOMPOSITION PRODUCTS	:	TOXIC IODINE VAPOURS
HAZARDOUS POLYMERIZATION	:	WILL NOT OCCUR

## SECTION 11: TOXICOLOGICAL INFORMATION

NO LD 50 / LC 50 INFORMATION FOUND RELATING TO NORMAL ROUTES OF OCCUPATIONAL EXPOSURE.

HEALTH RATING : 4  
CONTRACT RATING : 4

TO THE BEST OF OUR KNOWLEDGE TOXICITY DATA HAVE NOT BEEN INVESTIGATED THOROUGHLY. SINCE THE MANNER INWHICH EXPOSURE LIMITS ARE ESTABLISHED, INTERPRETED, IMPLEMENTED CAN VARY, OBTAIN DETAILED INFORMATION FROM APPROPRIATE AGENCIES IN EACH JURISHDICTION.

## SECTION 12 : ECOLOGICAL INFORMATION

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

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## 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	CORROSIVE LIQUID, OXIDIZING N.O.S
UN NO.	3093
HAZARD CLASS	8.0
PACKING GROUP	II
SUBSIDIARY RISK	5.1

DO NOT TRANSPORT WITH CHEMICALS OF CLASS : 1 ( EXPLOSIVES) , 2.1 / 2.3 ( FLAMMABLE/ TOXIC GASES) , 3 / 4.1 (FLAMMABLE LIQUIDS / SOLIDS), 4.2 ( SPONTANEOUSLY COMBUSTIBLES) , 4 3 ( DANGEROUS WHEN WET) , 5.2 (ORGANIC PEROXIDES),6 (TOXICS), 7 (RADIOACTIVES) , 9 ( MISCELLANEOUS ) AND FOODSTUFFS.

## SECTION : 15 REGULATORY INFORMATION

TSCA LISTED SUBSTANCE.  
PLEASE REFER TO SECTION 3, 4 & 8 OF MSDS.

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## SECTION : 16 ADDITIONAL INFORMATION

THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF MATERIAL BY A PERSON TAILED 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 HEHEDED.

READ ALL PRECAUTIONARY INFORMATIONS.

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