

BENZOYL PEROXIDE

SECTION 1- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION: BENZOYL PEROXIDE (BPO)

PRODUCER: CHON YA FINE CHEMICAL CO., LTD.

PLANT: NO.9, CHU-KUANG 1ST STREET. TA-FA IND DISTRICT TA-LIAO, KAOHSIUNG CITY, TAIWAN R.O.C.

TEL: 886-7-7872411~3,7872440

FAX: 886-7-7872414,7876411

SECTION 2- COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	INGREDIENT NAME	PERCENT
94-36-0	BENZOYL PEROXIDE	98±1%
7732-18-5	WATER	2±1%

SECTION 3- HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

RISK PHRASES:



RISK OF EXPLOSION BY SHOCK, FRICTION, FIRE OR OTHER SOURCES OF IGNITION.

IRRITATING TO EYES.

MAY CAUSE SENSITIZATION BY SKIN CONTACT.

SAFETY PHRASES:

KEEP IN A COOL PLACE.

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

KEEP CONTAINER TIGHTLY CLOSED.

KEEP AWAY FROM ACIDS, REDUCING AGENTS AND POLYMERISATION CATALYSTS.

EYES: CAUSES EYE IRRITATION.

SKIN: CAUSES SKIN IRRITATION. MAY CAUSE SKIN SENSITIZATION. PROLONGED AND/OR REPEATED CONTACT MAY CAUSE DEFATTING OF THE SKIN AND DERMATITIS.

INGESTION: MAY CAUSE IRRITATION THE DIGESTIVE TRACT.

**INHALATION: DUST IS IRRITATING TO THE RESPIRATORY TRACT.
CHRONIC: NO INFORMATION FOUND.**

SECTION 4- FIRST AID MEASURES

EYES: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL AID IMMEDIATELY.

SKIN: GET MEDICAL AID. SKIN WITH PLENTY OF SOAP AND WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

INGESTION: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL AID IMMEDIATELY. DO NOT INDUCE VOMITING. IF CONSCIOUS AND ALERT, RINSE MOUTH AND DRINK 2-4 CUP OF MILK OR WATER.

INHALATION: REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL AID.

NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

SECTION 5- FIRE FIGHTING MEASURES

GENERAL INFORMATION: STRONG OXIDIZER. CONTACT WITH COMBUSTIBLE MATERIALS MAY CAUSE A FIRE. WILL BURN IF INVOLVED IN A FIRE. THIS MATERIAL POSES AN EXPLOSION HAZARD WHEN DRY. FLAMMABLE SOLID. THIS MATERIAL IS AN EXPLOSION HAZARD WHEN EXPOSED TO HEAT, MECHANICAL SHOCK, AND FRICTION OR WHEN AGITATED.

EXTINGUISHING MEDIA: USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. USE WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR CHEMICAL FOAM. DO NOT USE HALOGENATED AGENTS.

SECTION 6- ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION: USE PROPER PERSONAL PROTECTIVE EQUIPMENT.

SPILLS/LEAKS: REMOVE ALL SOURCES OF IGNITION. PROVIDE VENTILATION. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS PAPER TOWELS TO CLEAN UP SPILL. USE ONLY NON-SPARKING TOOLS AND EQUIPMENT. IN THE EVENT OF SPILLAGE, SPILLED MATERIAL SHOULD BE MIXED WITH WATER-WETTED VERMICULITE, SWEEPED UP, AND PLACED IN A CONTAINER FOR IMMEDIATE DISPOSAL.

SECTION 7- HANDLING AND STORAGE

HANDLING: WASH THOROUGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE, (LIQUID AND/OR VAPOR), AND CAN BE DANGEROUS. KEEP CONTAINER TIGHTLY CLOSED. AVOID

CONTACT WITH HEAT, SPARKS AND FLAME. AVOID INGESTION AND INHALATION. USE CAUTION WHEN OPENING. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE EMPTY CONTAINERS TO HEAT, SPARKS OR OPEN FLAMES.

STORAGE: KEEP AWAY FROM HEAT AND FLAME. DO NOT STORE IN DIRECT SUNLIGHT. STORE IN A TIGHTLY CLOSED CONTAINER. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES. KEEP REFRIGERATED.

SECTION 8- EXPOSURE CONTROLS & PERSONAL PROTECTION

ENGINEERING CONTROLS: FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER. USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW THE PERMISSIBLE EXPOSURE LIMITS.

EXPOSURE LIMITS

CHEMICAL NAME	ACGIH	NIOSH	OSHA - FINAL PELS
BENZOYL PEROXUDE	5 MG/M3 TWA	5 MG/M3 TWA 1500 MG/M3 IDLH	5 MG/M3 TWA

PERSONAL PROTECTIVE EQUIPMENT

EYES: WEAR APPROPRIATE PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES AS DESCRIBED BY OSHA'S EYE AND FACE PROTECTION REGULATIONS IN 29 CFR 1910.133 OR EUROPEAN STANDARD EN166.

SKIN: WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT SKIN EXPOSURE.

CLOTHING: WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE.

RESPIRATORS: FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29CFR 1910.134 OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR EUROPEAN STANDARD EN 149 APPROVED RESPIRATOR WHEN NECESSARY.

SECTION 9- PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE: POWDER

APPEARANCE: WHITE

ODOR: WEAK ODOR

PH: NOT AVAILABLE.

VAPOR PRESSURE: NOT AVAILABLE.

VAPOR DENSITY: NOT AVAILABLE.

EVAPORATION RATE: NOT AVAILABLE.

VISCOSITY: NOT AVAILABLE.

BOILING POINT: NOT AVAILABLE.

MELTING POINT: 102-105 DEG C

AUTOIGNITION TEMPERATURE: 380 DEG C (716.00 DEG F)

FLASH POINT: NOT APPLICABLE.

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

EXPLOSION LIMITS, LOWER: NOT AVAILABLE. UPPER: NOT AVAILABLE.

SOLUBILITY: INSOLUBLE IN WATER.

SPECIFIC GRAVITY/DENSITY: NOT AVAILABLE.

MOLECULAR FORMULA:(C6H5CO)2O2

MOLECULAR WEIGHT: 242.23

SECTION 10- STABILITY & REACTIVITY DATA

CHEMICAL STABILITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES. DO NOT ALLOW DRYING. IN ITS DRY FORM, BENZOLY PEROXIDE IS HIGHLY FLAMMABLE AND EXPLOSIVE, SENSITIVE TO FRICTION, SHOCK AND HEAT, AND MUST BE HANDLED WITH EXTREME CAUTION.

CONDITIONS TO AVOID: MECHANICAL SHOCK, IGNITION SOURCES, EXCESS HEAT, COMBUSTIBLE MATERIALS, REDUCING AGENTS, TEMPERATURES ABOVE 100°C, ORGANIC MATTER.

INCOMPATIBILITIES WITH OTHER MATERIALS: REDUCING AGENTS, STRONG ACIDS, BASES, AMINES, METALS, ACCELERATORS, METHYL METHACRYLATE, CARBON TETRACHLORIDE AND ETHYLENE, ORGANIC MATTER, N,N - DIMETHYLANILINE AND LITHIUM ALUMINUM HYDRIDE. HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, AND BENZENE.

HAZARDOUS POLYMERIZATION: HAS NOT BEEN REPORTED.

SECTION 11- TOXICOLOGICAL INFORMATION

LD50/LC50:

CAS# 94-36-0:DRAIZE TEST, RABBIT, EYE: 500 MG/24H MILD; ORAL, MOUSE: LD50 = 5700 MG/KG; ORAL, RAT: LD50 = 7710 MG/KG;

CAS# 7732-18-5:ORAL, RAT: LD50 = >90 ML/KG;

CARCINOGENICITY:

CAS# 94-36-0: ACGIH: A4 - NOT CLASSIFIABLE AS A HUMAN CARCINOGEN

IARC: GROUP 3 CARCINOGEN CAS# 7732-18-5: NOT LISTED BY ACGIH, IARC, NIOSH, NTP, OR OSHA.

EPIDEMIOLOGY: NO INFORMATION FOUND.

TERATOGENICITY: NO INFORMATION FOUND.

REPRODUCTIVE EFFECTS: NO INFORMATION FOUND.

NEUROTOXICITY: NO INFORMATION FOUND.

MUTAGENICITY: NO INFORMATION FOUND.

OTHER STUDIES: SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

SECTION12- ECOLOGICAL INFORMATION

NO INFORMATION AVAILABLE.

SECTION13- DISPOSAL CONSIDERATIONS

CHEMICAL WASTE GENERATORS MUST DETERMINE WHETHER A DISCARDED CHEMICAL IS CLASSIFIED AS A HAZARDOUS WASTE. ADDITIONALLY, WASTE GENERATORS MUST CONSULT STATE AND LOCAL HAZARDOUS WASTE REGULATIONS TO ENSURE COMPLETE AND ACCURATE CLASSIFICATION.

SECTION14- MSDS TRANSPORT INFORMATION

SHIPPING NAME: BENZOYL PEROXIDE

HAZARD CLASS: 5.2

UN NUMBER: 3104

PACKING GROUP: II

SECTION15- REGULATORY INFORMATION

TSCA: NO INFORMATION FOUND.

SARA: CAS # 94-36-0 FLAMMABLE, SUDDEN RELEASE OF PRESSURE.

CLEAN AIR ACT:

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

CLEAN WATER ACT:

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS HAZARDOUS SUBSTANCES 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 THE CWA.

**OSHA: CAS# 94-36-0 IS CONSIDERED HIGHLY HAZARDOUS BY OSHA.
EUROPEAN LABELING IN ACCORDANCE WITH EC DIRECTIVES
HAZARD SYMBOLS: XI E**

SECTION16- OTHER INFORMATION

MSDS CREATION DATE:2012/10/17

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