ITW Polymer Technologies

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**SOCKETLOCK HARDENER**
MSDS Manufacturer Number:	MI040H
Manufacturer Name:	ITW Polymer Technologies
Address:	130 Commerce Drive Montgomeryville, PA 18936
General Phone Number:	(215) 855-8450
Emergency Phone Number:	(215) 855-8450
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424-9300
Canutec:	In Canada, call CANUTEC: (613) 996-6666 (call collect)
MSDS Revision Date:	11/22/2010

HMIS

Health Hazard	1
Fire Hazard	2
REACTIVITY	2
Personal Protection	X

* Chronic Health Effects:

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Plasticizer	Proprietary	5 - 10 by weight
Dibenzoyl peroxide	94-36-0	30 - 60 by weight
Water	7732-18-5	30 - 60 by weight
Zinc distearate	557-05-1	1 - 5 by weight
Non ionic surfactant	Proprietary	1 - 5 by weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:	DANGER! Reactive Combustible. Irritant.
Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	
Eye:	Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.
Skin:	Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling.
Inhalation:	Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.
Ingestion:	Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.
Chronic Health Effects:	Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.
Signs/Symptoms:	Overexposure can cause headaches, dizziness, nausea, and vomiting.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system. Kidney. Liver. Central nervous system.
Aggravation of Pre-Existing Conditions:	Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point:	200°F (93.3°C)
Flash Point Method:	Tag closed cup (TCC)
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Extinguishing Media:	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Organic peroxides can decompose violently if heated strongly while confined. Sudden reaction and fire may result if product is mixed with an oxidizing agent.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Spill Cleanup Measures:	Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.
Other Precautions:	Pump or shovel to storage/salvage vessels.

SECTION 7 - HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Do not store in temperatures above 100 °F.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

EXPOSURE GUIDELINES

Dibenzoyl peroxide :

Guideline ACGIH:	5 mg/m3 TLV-TWA: 5 mg/m3
Guideline OSHA:	5 mg/m3 PEL-TWA: 5 mg/m3

Zinc distearate :

Guideline ACGIH:	10 mg/m3 TLV-TWA: 10 mg/m3
Guideline OSHA:	15 mg/m3 PEL-TWA: 15 mg/m3 Total particulate/dust (T) PEL-TWA: 5 mg/m3 Respirable fraction (R)

Non ionic surfactant :

Guideline ACGIH:	200 ppm TLV-STEL: 300 ppm TLV-TWA: 200 ppm
Guideline OSHA:	200 ppm PEL-TWA: 200 ppm
Notes :	Only established PEL and TLV values for the ingredients are listed.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	paste
Color:	White
Odor:	sweet
Boiling Point:	Not determined.
Melting Point:	Not determined.
Specific Gravity:	1.2
Solubility:	slightly soluble
Vapor Density:	10.8
Vapor Pressure:	Not determined.

Percent Volatile:	<20%
Evaporation Rate:	n/e
pH:	not determined
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	200°F (93.3°C)
Flash Point Method:	Tag closed cup (TCC)
Auto Ignition Temperature:	Not determined.
VOC Content:	not determined

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:	Unstable.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Contamination, direct sunlight, friction and prolonged storage above 100°F (38°C).
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 - TOXICOLOGICAL INFORMATION

Dibenzoyl peroxide :

RTECS Number:	DM8575000
Eye:	Eye - Rabbit Standard Draize Test.: 500 mg/24H
Skin:	Oral - Rat LD50: 7710 mg/kg [Lungs, Thorax, or Respiration - Cyanosis Liver - Other changes Kidney/Ureter/Bladder - Other changes in urine composition] Oral - Mouse LD50: 1200 mg/kg [Details of toxic effects not reported other than lethal dose value.] Oral - Rat LD50: 6400 mg/kg [Details of toxic effects not reported other than lethal dose value.] Intraperitoneal. - Mouse LD50: 147 mg/kg [Details of toxic effects not reported other than lethal dose value.] Intraperitoneal. - Rat LD50: 372.8 mg/kg [Details of toxic effects not reported other than lethal dose value.]
Ingestion:	Oral - Rat LD50: 7710 mg/kg [Lungs, Thorax, or Respiration - Cyanosis Liver - Other changes Kidney/Ureter/Bladder - Other changes in urine composition] Oral - Mouse LD50: 1200 mg/kg [Details of toxic effects not reported other than lethal dose value.] Oral - Rat LD50: 6400 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Zinc distearate :

RTECS Number:	ZH5200000
Skin:	Oral - Rat LD50: >10 gm/kg [Details of toxic effects not reported other than lethal dose value.] Oral - Mouse LD50: >10 gm/kg [Details of toxic effects not reported other than lethal dose value.] Intraperitoneal. - Mouse LD50: 354 mg/kg [Details of toxic effects not reported other than lethal dose value.]
Ingestion:	Oral - Rat LD50: >10 gm/kg [Details of toxic effects not reported other than lethal dose value.] Oral - Mouse LD50: >10 gm/kg [Details of toxic effects not reported other than lethal dose value.]

Non ionic surfactant :

RTECS Number:	EL6475000
Eye:	Eye - Human Standard Draize Test.: 350 ppm Eye - Rabbit Standard Draize Test.: 80 mg
Skin:	Oral - Mouse LD50: 3000 mg/kg [Details of toxic effects not reported other than lethal dose value.] Administration onto the skin - Rabbit LD50: 6480 mg/kg [Details of toxic effects not reported other than lethal dose value.] Oral - Rat LD50: 2737 mg/kg [Details of toxic effects not reported other than lethal dose value.] Intraperitoneal. - Rat LD50: 607 mg/kg [Details of toxic effects not reported other than lethal dose value.] Intraperitoneal. - Mouse LD50: 616 mg/kg [Details of toxic effects not reported other than lethal dose value.] Intraperitoneal. - Guinea pig LD50: 2 gm/kg [Details of toxic effects not reported other than lethal dose value.] Administration onto the skin - Rabbit Open irritation test: 14 mg/24H
Inhalation:	Inhalation - Rat LC50: 23500 mg/m3/8H [Details of toxic effects not reported other than lethal dose value.] Inhalation - Mouse LC50: 32 gm/m3/4H [Details of toxic effects not reported other than lethal dose value.] Inhalation - Rat LC50: 23500 mg/m3 [Details of toxic effects not reported other than lethal dose value.] Inhalation - Mouse LC50: 32 mg/m3 [Details of toxic effects not reported other than lethal dose value.]
Ingestion:	Oral - Mouse LD50: 3000 mg/kg [Details of toxic effects not reported other than lethal dose value.] Oral - Rat LD50: 2737 mg/kg [Details of toxic effects not reported other than lethal dose value.]

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
RCRA Number:	D003

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name:	Organic peroxide Type E, solid (Dibenzoyl peroxide, 55%)
DOT UN Number:	3108
DOT Hazard Class:	5.2
DOT Packing Group:	II

SECTION 15 - REGULATORY INFORMATION

Dibenzoyl peroxide :

TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
New Jersey:	Listed: NJ Hazardous List; Substance Number: 0215
Massachussetts:	Listed: Massachusetts Oil and Hazardous List
Pennsylvania:	Listed
Canada DSL:	Listed

Zinc distearate :

TSCA Inventory Status:	Listed
Massachussetts:	Listed
Pennsylvania:	Listed
Canada DSL:	Listed

Non ionic surfactant :

TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
New Jersey:	Listed: NJ Hazardous EHS List
Massachussetts:	Listed: Massachusetts Oil and Hazardous List
Pennsylvania:	Listed
Canada DSL:	Listed
Canadian Regulations.	WHMIS Hazard Class(es): D2B; C All components of this product are on the Canadian Domestic Substances List.

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard:	2
HMIS Health Hazard:	1
HMIS Reactivity:	2
HMIS Personal Protection:	X
MSDS Revision Date:	11/22/2010
MSDS Revision Notes:	Formula and Code Change
MSDS Author:	Actio Corporation
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