

MATERIAL SAFETY DATA SHEET

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I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: POWR BOND ONE HOUR URETHANE
HMIS Ratings:

Health: Minimal(0)
 Flammability: Moderate(2)
 Instability/Reactivity: Minimal(0)

NFPA Ratings:

Health: Minimal(0)
 Flammability: Moderate(2)
 Instability/Reactivity: Minimal(0)

Other: DESCRIPTION: PRODUCT CONTAINING A POLYURETHANE PREPOLYMER BASED ON DIPHENYLMETHANEDIISOCYANATE.

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
CARBON BLACK	1333-86-4	10 - 25	3.5 MG/M ³	3.5 MG/M ³	RAL 3.5* MG/M ³		
Notes	* 0.1 IN PRESENCE OF PAHS, AS PAHS; 10 - HR TWA						
DIPHENYLMETHANE-4,4'- DIISOCYANATE	101-68-8		0.051 MG/M ³ , 0.005 PPM	SHORT TERM VALUE: C 0.2 MG/M ³ , C 0.02 PPM	SHORT TERM VALUE: C 0.2* MG/M ³ , C 0.02* PPM		
Notes	RISK PHRASES: XN HARMFUL, XI; R 20 -36/37/38-42/43 * 10-MIN						
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-47-8		SHORT TERM VALUE: 1200 MG/M ³ , 165 PPM				
Notes	RISK PHRASES: XN HARMFUL, R65-66						

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Other: HAZARD DESCRIPTION: XN HARMFUL
 INFORMATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT:
 R 42/43 MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT CONTAINS ISOCYANATES.

IV. FIRST AID MEASURES

Eyes: RINSE OPENED EYE FOR SEVERAL MINUTES UNDER RUNNING WATER. THEN CONSULT A DOCTOR.

Skin: IMMEDIATELY WASH WITH WATER AND SOAP AND RINSE THOROUGHLY. IF SKIN IRRITATION CONTINUES, CONSULT A DOCTOR.

Ingestion: AFTER SWALLOWING: IMMEDIATELY CALL FOR MEDICAL HELP.

Inhalation: AFTER INHALATION: SUPPLY FRESH AIR. IF REQUIRED, PROVIDE ARTIFICIAL

RESPIRATION. KEEP PATIENT WARM. CONSULT DOCTOR IF SYMPTOMS PERSIST.
IN CASE OF UNCONSCIOUSNESS PLEASE PLACE PATIENT STABLY IN SIDE POSITION FOR TRANSPORTATION.

Other: GENERAL INFORMATION: IMMEDIATELY REMOVE ANY CLOTHING SOILED BY THE PRODUCT.
THE FOLLOWING SYMPTOMS MAY OCCUR:
BREATHING DIFFICULTY
ASTHMA ATTACKS

V. FIRE FIGHTING MEASURES

Flash Point: > 100°C (>212°F)

Lower Flammability Limit: 0.6% VOL

Upper Flammability Limit: 8 % VOL

Extinguishing Agents: CARBON DIOXIDE, EXTINGUISHING POWDER OR WATER SPRAY
FIGHT LARGER FIRES WITH WATER SPRAY OR ALCOHOL RESISTANT FOAM.
FOR SAFETY REASONS UNSUITABLE EXTINGUISHING AGENTS: WATER WITH FULL JET

Unusual Fire or Explosion Hazards: IN CASE OF FIRE, THE FOLLOWING CAN BE RELEASED:

CARBON MONOXIDE (CO)
NITROGEN OXIDES (NOX-)
IN CERTAIN FIRE CONDITIONS, TRACES OF OTHER TOXIC GASES CANNOT BE EXCLUDED, (E.G.)
HYDROGEN CYANIDE (HCN)
ISOCYANTES

Fire Fighting Procedures: PROTECT EQUIPMENT: WEAR SELF-CONTAINED RESPIRATORY PROTECTIVE DEVICE

Other: IGNITION TEMPERATURE: >200°C (392°F)
AUTO IGNITING: PRODUCT IS NOT SELF-IGNITING
DANGER OF EXPLOSION: PRODUCT IS NOT EXPLOSIVE. HOWEVER, FORMATION OF EXPLOSIVE AIR/VAPOR MIXTURES ARE POSSIBLE

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: PERSON-RELATED SAFETY PRECAUTIONS:
ENSURE ADEQUATE VENTILATION

MEASURES FOR ENVIRONMENTAL PROTECTION:
DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEM OR ANY WATER COURSE
MEASURES FOR CLEANING/COLLECTING:
SEND FOR RECOVERY OR DISPOSAL IN SUITABLE RECEPTACLES
DO NOT CLOSE THEM (REACTION WITH WATER FORMING CARBON DIOXIDE)

VII. HANDLING AND STORAGE

Other: HANDLING
INFORMATION FOR SAFE HANDLING: NO SPECIAL MEASURES REQUIRED
INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:
TRACES OF FLAMMABLE SUBSTANCES MAY COLLECT IN THE STEAM CHAMBER OF ENCLOSED SYSTEM. KEEP IGNITION SOURCES AWAY

STORAGE
REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:

STORE IN A COOL LOCATION
 INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY: NOT
 REQUIRED
 INFORMATION ABOUT STORAGE CONDITIONS: PROTECT FROM HUMIDITY AND
 WATER.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	TIGHTLY SEALED GOGGLES
Skin:	PROTECTION OF HANDS PVA OR NITRILE GLOVES OF SUPERIOR QUALITY. BODY PROTECTION: PROTECTIVE WORK CLOTHING.
Respiratory:	BREATHING EQUIPMENT USE SUITABLE RESPIRATORY PROTECTIVE DEVICE IN CASE OF INSUFFICIENT VENTILATION IN CASE OF BRIEF EXPOSURE OR LOW POLLUTION USE RESPIRATORY FILTER DEVICE. IN CASE OF INTENSIVE OR LONGER EXPOSURE USE RESPIRATORY DEVICE THAT IS INDEPENDENCE OF CIRCULATING AIR. SHORT TERM FILTER DEVICE : FILTER AB
Other:	GENERAL PROTECTIVE AND HYGIENIC MEASURES: AVOID CLOSE OR LONG TERM CONTACT WITH THE SKIN WASH HANDS BEFORE BREAKS AND AT THE END OF WORK DO NOT EAT, DRINK OR SMOKE WHILE WORKING

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	BLACK
Boiling Point:	>190° C (>374° F)
Solubility in Water:	INSOLUBLE
Vapor Density:	1.3 @ 20°C (68°F)
Physical State:	PASTY

X. STABILITY AND REACTIVITY

Hazardous Decomposition NO DECOMPOSITION IF USED ACCORDING TO SPECIFICATIONS

Products:

Incompatible Products: DANGEROUS REACTIONS
 REACTS WITH ALCOHOLS, AMINES, AQUEOUS ACIDS AND ALKALIS
 REACTS WITH WATER FORMING CARBON DIOXIDE. DANGER OF RECEPTACLES
 BURSTING BECAUSE OF VAPOUR OVERPRESSURE.
 DANGEROUS PRODUCTS OF DECOMPOSITIONS: NONE TO OUR KNOWLEDGE AT
 ROOM TEMPERATURE

XI. TOXICOLOGICAL INFORMATION

Acute Toxicology Data:	PRIMARY IRRITANT EFFECT ON THE SKIN: NO IRRITANT EFFECT ON THE EYE: NO IRRITATING EFFECT SENSITIZATION: SENSITIZATION POSSIBLE THROUGH INHALATION SENSITIZATION POSSIBLE THROUGH SKIN CONTACT
Other:	PERSONS HAVING A HISTORY OF ASTHMA OR OF ALLERGIES, CHRONIC OR RECURRING DIFFICULTIES IN BREATHING, MUST NEVER USE THIS PREPARATION.

XII. ECOLOGICAL INFORMATION

Other: GENERAL NOTES
 WATER HAZARD CLASS 1 (SELF-ASSESSMENT): SLIGHTLY HAZARDOUS FOR WATER
 DO NOT ALLOW PRODUCT TO REACH GROUND WATER, WATER COURSE OR SEWAGE SYSTEM.

XIII. DISPOSAL CONSIDERATIONS

Other: PRODUCT RECOMMENDATION
 MUST BE DISPOSED OF IN AN INCINERATOR FOR HAZARDOUS WASTE ACCORDING TO OFFICIAL REGULATIONS

UNCLEANED PACKAGINGS RECOMMENDATION:
 DISPOSAL MUST BE MADE ACCORDING TO OFFICIAL REGULATIONS

XIV. TRANSPORT INFORMATION

Other: D.O.T. REGULATIONS REMARKS: REMARKS: NOT HAZARDOUS
 LAND TRANSPORT ADR/RID (CROSS-BORDER) REMARKS: NOT HAZARDOUS
 MARITIME TRANSPORT IMDG MARINE POLLUTANT: NO; REMARKS: NOT HAZARDOUS
 AIR TRANSPORT ICAO-TI AND IATA-DGR PROPER SHIPPING NAME: NOT REGULATED

XV. REGULATORY INFORMATION

TSCA Status: ALL INGREDIENTS ARE LISTED.

EPA Sara Title III Chemical SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES):

Listings: NONE OF THE INGREDIENT IS LISTED.
 SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS):
 Chemical DIPHENYLMETHANE-4,4'- DIISOCYANATE CAS# 101-68-8;
 CANCEROGENITY CATEGORIES: CBD; D

California: PROP 65:
 CHEMICALS KNOWN TO CAUSE CANCER:
 Chemical CARBON BLACK CAS# 1333-86-4
 CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR FEMALES:
 NONE OF THE INGREDIENTS IS LISTED
 CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR MALES: NONE OF THE INGREDIENTS IS LISTED
 CHEMICALS KNOWN TO CAUSE DEVELOPMENTAL TOXICITY: Chemical
 TOLUENE CAS# 108-88-3

Other: IARC
 Chemical CARBON BLACK CAS# 1333-86-4; 2B
 Chemical TOLUENE CAS# 108-88-3; 3
 DIPHENYLMETHANE-4,4'- DIISOCYANATE CAS# 101-68-8; 3

NTP: NONE OF THE INGREDIENTS IS LISTED
 TLV (ESTABLISHED BY ACGIH):
 Chemical CARBON BLACK CAS# 1333-86-4; A4
 Chemical TOLUENE CAS# 108-88-3; A4
 Chemical DIPHENYLMETHANE-4,4'- DIISOCYANATE CAS# 101-68-8; A4
 NIOSH - CA: Chemical CARBON BLACK CAS# 1333-86-4
 OSHA - CA: NONE OF THE INGREDIENTS IS LISTED
 PRODUCT RELATED HAZARD INFORMATIONS: THE PRODUCT HAS BEEN CLASSIFIED AND MARKED IN ACCORDANCE WITH EU DIRECTIVES
 HAZARD SYMBOLS: XN HARMFUL
 HAZARD - DETERMINING COMPONENTS OF LABELLING: Chemical
 DIPHENYLMETHANE-4,4'- DIISOCYANATE CAS# 101-68-8
 RISK PHRASES: 4/33 2 MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT

SAFETY PHRASES: 24 AVOID CONTACT WITH SKIN
37 WEAR SUITABLE GLOVES
45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY.
SPECIAL LABELING OF CERTAIN PREPARATIONS: CONTAINS ISOCYANATES.

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.