

MATERIAL SAFETY DATA SHEET

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MSDS Number: 1217349 ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: POWR BOND HI-VISCOSITY 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	REL: 3.5* MG/M ³		
Notes	* 0.1 IN PRESENCE OF PAHS, AS PAHS; 10-HR TWA						
DIPHENYLMETHANE-4,4'- DIISOCYANATE	101-68-8		.051 MG/M ³ , 0.005 PPM	SHORT-TERM VALUE: C 0.2 MG/M ³ , C 0.02 PPM	REL SHORT-TERM VALUE: C 0.2* MG/M ³ , C 0.02* PPM REL LONG TERM VALUE: 0.051 MG/M ³ , 0.005 PPM		
Notes	RISK PHRASES: XN HARMFUL, XI; R 20 -36/37/38-42/43						

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Other: HAZARD DESCRIPTION: XN HARMFUL
 INFORMATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT:
 R 42 MAY CAUSE SENSITIZATION BY INHALATION
 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.

Ingestion: AFTER SWALLOWING: DO NOT INDUCE VOMITING; IMMEDIATELY CALL FOR MEDICAL HELP.

Inhalation: AFTER INHALATION: SUPPLY FRESH AIR. IF REQUIRED, PROVIDE ARTIFICIAL RESPIRATION. KEEP PATIENT WARM. CONSULT DOCTOR IF SYMPTOMS PERSISTS.

Other: GENERAL INFORMATION: IMMEDIATELY REMOVE ANY CLOTHING SOILED BY THE PRODUCT.

THE FOLLOWING SYMPTOMS MAY OCCUR:

DIZZINESS
HEADACHE
NAUSEA

V. FIRE FIGHTING MEASURES

Flash Point: > 61°C (>142°F)

Lower Flammability Limit: 0.6% VOL

Upper Flammability Limit: 8 % VOL

Extinguishing Agents: CARBON DIOXIDE
FOAM
FIRE-EXTINGUISHING POWDER
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)
ISOCYANTE

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
KEEP AWAY FROM IGNITION SOURCES
MEASURES FOR ENVIRONMENTAL PROTECTION:
DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEM OR ANY WATER COURSE
MEASURES FOR CLEANING/COLLECTING:
PICK UP MECHANICALLY
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: PREVENT FORMATION OF DUST
INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES: KEEP IGNITION SOURCES AWAY – DO NOT SMOKE

STORAGE
REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:
STORE IN A COOL LOCATION
PROVIDE VENTILATION FOR RECEPTACLES
INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY: NOT REQUIRED
FURTHER INFORMATION ABOUT STORAGE CONDITIONS: PROTECT FROM

HUMIDITY AND WATER.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin:	PROTECTION OF HANDS PVA GLOVES
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 DO NOT INHALE GASES/FUMES/AEROSOLS PREGNANT WOMEN SHOULD STRICTLY AVOID INHALATION OR SKIN CONTACT

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	BLACK
Boiling Point:	110°C (230°F)
Solubility in Water:	NOT MISCIBLE OR DIFFICULT TO MIX
Vapor Density:	1.2 @ 20°C (68°F)
Physical State:	PASTY
Other:	SOLVENT CONTENT ORGANIC SOLVENTS: 1%

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
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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
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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.
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XIII. DISPOSAL CONSIDERATIONS

Other: PRODUCT RECOMMENDATION
INCINERATOR FOR HAZARDOUS WASTE OR AUTHORIZED DUMP

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 POLLANT: 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 Chemicals SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES):

Listings: NONE OF THE INGREDIENT IS LISTED.
SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS): Chemical TOLUENE CAS#
108-88-3; CARCINOGENICITY CATEGORY: D
Chemical DIPHENYLMETHANE-4,4'- DIISOCYANATE CAS# 101-68-8;
CARCINOGENICITY CATEGORY: 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: 42 MAY CAUSE SENSITIZATION BY INHALATION
SAFETY PHRASES: 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

CRL Online

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.