BosTech LLC.FZ
POLYMER

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DMP-30
COMPANY: BosTech Polymer LLC.FZ
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SECTION 2 COMPOSITIONS AND INFORMATION ON INGREDIENTS

Product name: TRIS(DIMETHYLAMINOMETHYL)PHENOL DMP-30

Ingredient	Concentration	CAS No.
TRIS(DIMETHYLAMINO METHYL)PHENOL (DMP-30)	98.5%	90-72-2

SECTION 3 HAZARD IDENTIFICATION

FLAMMABLE. HARMFUL BY INHALATION AND IN CONTACT WITH SKIN. IRRITATING TO EYES AND SKIN. MAY CAUSE SENSITIZATION BY SKIN CONTACT.

SECTION 4 FIRST-AID MEASURES

EYES: FLUSH EYES WITH PLENTY OF WATER.
SKIN: WASH OFF IN FLOWING WATER OR SHOWER.
I**NGESTION:** DO NOT INDUCE VOMITING. CALL A PHYSICIAN AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.
INHALATION: NO REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, QUALIFIED PERSONNEL SHOULD ADMINISTER OXYGEN. CALL A PHYSICIAN OR TRANSPORT TO A MEDICAL FACILITY.
NOTE TO PHYSICIAN: THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY AN ATTENDING PHYSICIAN. IF RAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGEAL CONTROL. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

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SECTION 5 FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: FLASH POINT NO
FLAMMABILITY LIMITS: LFL 1.7 %*
UFL 7.6 %*

* BASED ON XYLENE ONLY.
HAZARDOUS COMBUSTION PRODUCTS: UNDER CONDITIONS OF INCOMPLETE COMBUSTION OR PYROLYSIS, PHENOLICS AND CARBON DIOXIDE MAY BE EVOLVED. THE THERMAL DECOMPOSITION PRODUCTS THEREFORE SHOULD BE TREATED AS POTENTIALLY HAZARDOUS SUBSTANCES, AND APPROPRIATE PRECAUTIONS SHOULD BE TAKEN.

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FIRE EXTINGUISHERS, FORM.

SPECIFIC METHODS FOR FIRE FIGHTING: SOLVENTS MAY PRODUCE EXCESSIVE PRESSURE UNDER FIRE CONDITIONS. SEALED CONTAINERS MAY RUPTURE AND IGNITE. COOL CONTAINERS IN THE VICINITY OF THE BLAZE USING A WATER SPRAY.

SPECIFIC FIRE OR EXPLOSION HAZARDS: FLAMMABLE PRODUCT.

PROTECTIVE EQUIPMENTS FOR FIRE FIGHTING: WEAR POSITIVE-PRESSURE SELF- CONTAINED BREATHING APPARATUS AND PROTECTIVE FIRE FIGHTING CLOTHING. (INCLUDES FIRE FIGHTING HELMET, COAT, TROUSERS, BOOTS AND GLOVES)

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: EVACUATE UNPROTECTED PERSONNEL UPWIND OF SPILL. WEAR ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. TREAT AS A FLAMMABLE LIQUID, KEEP HEAT, FLAME OR SPARK PRODUCING EQUIPMENT AWAY. VAPOURS ARE HEAVIER THAN AIR AND MAY TRAVEL A LONG DISTANCE AND ACCUMULATE IN LOW LYING AREAS. IGNITION AND/OR FLASHBACK MAY OCCUR.

ENVIRONMENT PRECAUTIONS: CONTAIN LIQUID TO PREVENT CONTAMINATION OF SOIL, SURFACE WATER OR GROUND WATER. FLUSHINGS AND WASH WATERS MUST BE CONTAINED AND PREVENTED FROM ENTERING INTO SOIL, WATERWAYS AND GROUND WATER.

METHOD OF CLEANING UP: COVER AND SOAK UP WITH A SUITABLE ABSORBENT MATERIAL, SUCH AS SAND. COLLECT IN SUITABLE AND PROPERLY LABELED CONTAINERS. DISPOSE OF ACCORDING TO APPLICABLE REGULATIONS. RESIDUAL CAN BE REMOVED WITH SOLVENT. SOLVENTS ARE NOT RECOMMENDED FOR CLEANUP UNLESS THE RECOMMENDED EXPOSURE GUIDELINES AND SAFE HANDLING PRACTICES FOR THE SPECIFIC SOLVENT ARE FOLLOWED. CONSULT APPROPRIATE SOLVENT SDS FOR HANDLING INFORMATION AND EXPOSURE GUIDELINES. RESIDUAL PRODUCT MAY BE REMOVED USING STEAM OR HOT SPRAY WATER.

SECTION 7 HANDLING AND STORAGE

HANDLING: AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID BREATHING VAPORS. CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, CAN CONTAIN VAPORS. DO NOT CUT, DRILL, GRIND, WELD, OR PERFORM SIMILAR OPERATIONS ON OR NEAR EMPTY CONTAINERS. USE OF NON-SPARKING OR EXPLOSION-PROOF EQUIPMENT MAY BE NECESSARY, DEPENDING UPON THE TYPE OF OPERATION. NO SMOKING, OPEN FLAMES OR SOURCES OF PRESSURE FOR TRANSFERRING PRODUCT. ELECTRICALLY GROUND ALL EQUIPMENT.

STORAGE: GROUND AND BOND ALL EQUIPMENT. STORE CONTAINERS TIGHTLY CLOSED IN A WELL-VENTILATED AREA. DO NOT EXPOSE TO DIRECT SUNSHINE.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE GUIDELINE(S): FOR XYLENE

ACGIH TLV = 100 PPM TW - 8 HOURS

STEL = 150 PPM, A4

ENGINEERING CONTROLS: PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE EXPOSURE GUIDELINES.

EYE PROTECTION: USE CHEMICAL GOGGLES. IF VAPOR EXPOSURE CAUSES EYE DISCOMFORT, USE A FULL-FACE RESPIRATOR.
SKIN PROTECTION: USE GLOVES IMPERVIOUS TO THIS MATERIAL WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR.

RESPIRATORY PROTECTION: ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW THE EXPOSURE GUIDELINES. WHEN RESPIRATORY PROTECTION IS REQUIRED, USE AN APPROVED AIR-PURIFYING OR POSITIVE PRESSURE SUPPLIED-AIR RESPIRATOR DEPENDING ON THE POTENTIAL AIRBORNE CONCENTRATION.

SECTION 9 PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE: LIGHT-YELLOWISH LIQUID
ODOR: XYLENE
BOILING POINT: 138 - 144 OC*
VAPOR PRESSURE: 5.3 MMHG AT 20 OC*
VAPOR DENSITY: 3.7* (AIR = 1)
SOLUBILITY IN WATER: NONE
SPECIFIC GRAVITY: 1.09 AT 25 OC
* BASED ON XYLENE ONLY.

SECTION 10 STABILITY AND REACTIVITY

STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS. (SEE SECTION 7)

CONDITIONS TO AVOID: SOLVENTS MAY CAUSE HIGH PRESSURE UNDER EXCESSIVE HEAT. THIS MAY LEAD TO PRESSURE BUILD UP IN CLOSED CONTAINERS. AVOID IGNITION SOURCES SUCH AS FLAMES OR SPARK PRODUCING EQUIPMENT.

MATERIAL TO AVOID: ACIDS, BASES, AMINES AND OXIDIZING AGENTS. HAZARDOUS DECOMPOSITION PRODUCTS: REFER TO SECTION 5 FOR HAZARDOUS COMBUSTION PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR BY ITSELF. MASSES OF MORE THAN ONE POUND (0.5 KG) OF PRODUCT PLUS ALIPHATIC AMINES WILL CAUSE IRREVERSIBLE POLYMERIZATION WITH CONSIDERABLE HEAT BUILD-UP.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY (LD50/RAT): > 2,000 MG/KG
ACUTE DERMAL TOXICITY (LD50/RABBIT): NOT DETERMINED

SECTION 12 ECOLOGICAL INFORMATION

DEGRADATION: RESIN: BIODEGRADATION UNDER AEROBIC LABORATORY

CONDITION IS BELOW DETECTABLE LIMITS.
XYLENE: BIODEGRADATION REACHED IN CLOSED BOTTLE TEST AFTER 20 DAYS = 70%.

ECOTOXICITY: XYLENE: MATERIAL IS TOXIC TO AQUATIC ORGANISMS (LC50/EC50/IC50 BETWEEN 1 AND 10 MG/L IN MOST SENSITIVE SPECIES.)

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL: THE RECOMMENDED PROCEDURE FOR DISPOSING OF WASTE PRODUCTS IS BURNING UNDER CAREFULLY CONTROLLED CONDITIONS. BURN IN AN ADEQUATE INCINERATOR OR BURY IN AN APPROVED LANDFILL IN COMPLIANCE WITH APPLICABLE REGULATIONS. DO NOT PUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

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SECTION 14 TRANSPORT INFORMATION

ROAD, RAIL & BARGE

PROPER SHIPPING NAME: AMINES, LIQUID, CORROSIVE, N.O.S. OR POLYAMINES, LIQUID, CORROSIVE, N.O.S.

TRUCK	-	ADR LOADED:	3-31C	EMPTY: 3-71	LABEL L:8
RAIL	-	RID LOADED:	3-31C	EMPTY: 3-71	LABEL L: 8
				FILLING % PACKED:	95
				FILLING % BULK:	95
KEMLER CODE:			30	UN NUMBER:	2735
TREMCARD NR. CFFIC:			677B		
TREMCARD NR. OTHER:					
BARGE	-	ADNR LOADED:	3-31C	EMPTY: 3-71	LABEL: 8
		SHIP TYPE:	-	CATG.:	

SEA

PROPER SHIPPING NAME: AMINES, LIQUID, CORROSIVE, N.O.S. OR POLYAMINES, LIQUID, CORROSIVE, N.O.S.

SEA	-	IMO/IMDG CLASS:8	UN NR: 2735	LABEL: 8
PACKING GROUP:		III	EMS: F-A, S-B	MFAG: 310
CONTAINER TYPE:		2	MARINE POLLUTANT:	N (Y/N)
TEST PRESSURE (BAR):		1.5	FILLING % PACKED:	95
			FILLING % BULK:	95
			FILLING KG/L (GAS):	

AIR

PROPER SHIPPING NAME: AMINES, LIQUID, CORROSIVE, N.O.S. OR POLYAMINES, LIQUID, CORROSIVE, N.O.S.

AIR-ICAO/IATA CLASS:	8	UN NR: 2735	LABEL: 8
SUB CLASS:	-		
PACKING GROUP:	III	PACK INSTR. PASSENGER:	309
		PACK INSTR. CARGO:	310

REMARKS: SAMPLE SHIPMENT NOT ALLOWED BY MAIL.

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SECTION 15 REGULATORY INFORMATION

NOTICE: THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE SHOWN ABOVE. HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED IS GIVEN. REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER FROM ONE LOCATION TO ANOTHER; IT IS THE BUYER 'S RESPONSIBILITY TO ENSURE THAT ITS ACTIVITIES COMPLY WITH FEDERAL, STATE OR PROVINCIAL AND LOCAL LAWS.

THE FOLLOWING SPECIFIC INFORMATION IS MADE FOR THE PURPOSE OF COMPLYING WITH NUMEROUS FEDERAL, STATE OR PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

CLASSIFICATION ACCORDING TO DIRECTIVE 1999/45/EC (THE DANGEROUS PREPARATIONS DIRECTIVE)

HAZARD SYMBOL: XN IRRITANT
RISK PHRASES: R10 FLAMMABLE

R20/21 HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.

R36/38 IRRITATING TO EYES AND SKIN.

SAFETY PHRASES: S16 KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

S25 AVOID CONTACT WITH EYES.
S28 AFTER CONTACT WITH SKIN,WASH IMMEDIATELY

WITH PLENTY OF WATER AND SOAP.
S36/37/39 WEAR SUITABLE GLOVES AND EYE / FACE PROTECTION.

CHEMICAL NAME: REACTION PRODUCT: BISPHENOL A - (EPICHLOROHYDRIN); EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT 700-1100) XYLENE

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