GHS SAFETY DATA SHEET (SDS)

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product: PT4450B1

PTM & W INDUSTRIES, INC. PHONE NUMBER: (562) 946-4511 10640 S. PAINTER AVE. CHEMICAL TRANSPORTATION EMERGENCY:

SANTA FE SPRINGS, CA. 90670-4092 CHEMTREC (800) 424-9300

DATE OF PREPARATION: 5/8/2015 SUPERSEDES: 5/16/2014

Product Type: Modified Amine Mixture

Product Use: Industrial Curing Agent supplied exclusively for workplace use.

Signal Word: Danger

Hazard Label(s):

Corrosive Irritant Environment





Hazard statement(s):

H318: Causes serious eye damage. (Eye Dam. 1)

H302+H332: Harmful if swallowed, or if inhaled. (Acute Tox. 4 Oral + Inhalation)

H317: May cause an allergic skin reaction. (Skin Sens. 1)

H361: Suspected of damaging fertility or the unborn child. (Bisphenol A -Repr. 2)

H401: Toxic to aquatic life. (Bisphenol A - Aquatic Acute 2)

Precautionary statement(s):

P202: Do not handle until all safety precautions have been read and understood

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P270: Do not eat, drink or smoke when using this product.

P281: Use personal protective equipment as required.

P285: In case of inadequate ventilation wear respiratory protection.

P273: Avoid release to the environment.

	SECTION 2 — HAZARD(S) IDENTIFICATION				
NO 1	NO	REPRO-TOX NO	TARGET ORGANS UNKNOWN	ACGIH/TLV N.A.mg/M ³	OSHA/PEL N.A.mg/M ³
2	NO	NO	EYES, SKIN	N.A.mg/M ³	N.A.mg/M ³
3	NO	NO	EYES, SKIN	5 mg/M ³	5 mg/M ³

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

UNDER GHS-OSHA §4.11 THE PRECISE COMPOSITION OF THIS PRODUCT IS WITHHELD AS CONFIDENTIAL BUSINESS INFORMATION (CBI). A MORE COMPLETE DISCLOSURE CAN BE PROVIDED TO A HEALTH, OR SAFETY PROFESSIONAL WHEN NECESSARY.

Substance/Mixture: Mixture

N	D. COMPONENT	CAS. NO.	PERCENT
1	FATTY ACIDS, C18-UNSATD, DIMERS, POLYMERS WITH TOFA AND TETA OR TEPA	68953-36-6, 68919-79-9	< 90%
2	TRIETHYLENETETRAMINE OR, TETRAETHYLENEPENTAMINE	112-57-2, 112-24-3	< 20%
3	BISPHENOL A	80-05-7	< 2%

SECTION 4 — FIRST-AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

- EYES: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
- SKIN: WASH AFFECTED AREA IMMEDIATELY WITH LARGE AMOUNTS OF SOAP AND WATER. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE. CONTACT A PHYSICIAN IF IRRITATION OCCURS.
- INHALATION: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.
- INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANITIES OF WATER. CALL A
 PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS
 PERSON.

SECTION 5 — FIRE-FIGHTING MEASURES

FLASH POINT : $\geq 250^\circ$ F (FOR PRODUCT OR LOWEST FLASH POINT INGREDIENT) FLAMMABILITY CLASSIFICATION: COMBUSTIBLE CLASS (IIIB) EXTINGUISHING MEDIA: WATER FOG, DRY CHEMICAL, CARBON DIOXIDE, OR FOAM. **NOTE:** EITHER ATMOSPHERE-SUPPLY OR AIR-PURIFYING RESPIRATORS SHOULD BE AVAILABLE FOR FIRE FIGHTERS (20 CFR 1910.134).

SECTION 6 — ACCIDENTAL RELEASE MEASURES

- IF MATERIAL IS SPILLED: AVOID CONTACT WITH MATERIAL. PERSONS NOT WEARING PROPER PROTECTIVE EQUIPMENT (SEE BELOW) SHOULD BE EXCLUDED FROM THE AREA UNTIL CLEAN UP IS COMPLETE. DIKE AREA TO PREVENT SPILL SPREADING AND SCOOP UP EXCESS TO RECOVERY CONTAINERS. ABSORB REMNANT ON NONCOMBUSTIBLE MATERIAL SUCH AS CLAY AND SHOVEL INTO CONTAINERS FOR DISPOSAL.
- WASTE DISPOSAL METHOD: DISPOSE OF ANY WASTE(S) GENERATED ABOVE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

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SECTION 7 — HANDLING AND STORAGE

- AVOID SKIN AND EYE CONTACT.
- AVOID BREATHING VAPOR, MIST OR FUMES.
- ENSURE THAT ALL CONTAINERS ARE PROPERLY LABELED TO PREVENT ACCIDENTAL INGESTION OR IMPROPER DISPOSAL.
- RESEAL PARTLY USED CONTAINERS.
- WASH WITH SOAP AND WATER BEFORE EATING, DRINKING OR USING TOILET FACILITIES.
- STORE UNDER COOL, DRY CONDITIONS AND AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.
- OBSERVE CONDITIONS OF GOOD INDUSTRIAL HYGIENE AND SAFE WORKING PRACTICE.

SECTION 8 — EXPOSURE CONTROLS/ PERSONAL PROTECTION

- RESPIRATORY PROTECTION: NOT NORMALLY NECESSARY UNLESS THE MATERIAL IS
 BEING USED IN SUCH A WAY AS TO PRODUCE DUST, MIST, VAPOR, FUMES, OR
 SMOKE, IN WHICH CASE NIOSH APPROVED RESPIRATORY PROTECTION SHOULD BE
 USED.
- VENTILATION: SHOULD BE SUFFICIENT TO CONTROL ANY DUST, MIST, VAPOR OR FUMES PRODUCED BY PROCESSING OR HANDLING METHOD. BREATHING OF VAPOR MUST BE AVOIDED.
- HAND PROTECTION: IMPERVIOUS GLOVES, NEOPRENE OR NILRILE RUBBER GLOVES.
- EYE PROTECTION: SPLASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIFLDS.
- OTHER PROTECTIVE EQUIPMENT: CLEAN, BODY COVERING CLOTHING AND FOOTWEAR.

SECTION 9 —PHYSICAL AND CHEMICAL PROPERTIES

NOTE: OTHER PROPERTIES ARE EITHER NOT AVAILABLE, OR DO NOT APPLY.

SECTION 10 — STABILITY AND REACTIVITY

- STABILITY: STABLE UNDER NORMAL STORAGE CONDITIONS. UNSTABLE AT ELEVATED TEMPERATURES. SLOWLY CORRODES COPPER, ALUMINUM, ZINC AND GALVANIZED SURFACES.
- INCOMPATIBILITY: STRONG OXIDIZING AGENTS, ORGANIC, LEWIS, OR MINERAL ACIDS, NITROUS ACID, SODIUM HYPOCHLORITE, AND PEROXIDES.
- HAZARDOUS DECOMPOSITION PRODUCTS: CARBON AND NITROGEN OXIDES, NITRIC ACID, NITROSOAMINE, AND OTHER UNKNOWN ORGANIC COMPOUNDS.

SECTION 11 — TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE:

ACUTE:

- EYES: CAUSES SEVERE CONJUNCTIVAL IRRITATION, CORNEAL INJURY AND IRITIS.
- SKIN: MAY CAUSE IRRITATION, BURNS, ULCERATION, OR SKIN SENSITIZATION.
- INHALATION: VAPORS ARE IRRITATING AND MAY CAUSE TEARS, BURNING OF NOSE AND THROAT, COUGHING, WHEEZING, NAUSEA, AND VOMITING.
- **INGESTION:** MODERATELY TOXIC, MAY CAUSE MOUTH AND THROAT BURNS, ABDOMINAL PAIN, NAUSEA, VOMITING, WEAKNESS, THIRST, AND COMA.

CHRONIC:

 AMINE VAPORS MAY CAUSE LIVER & KIDNEY INJURY. EYE, SKIN OR LUNG DISORDERS MAY DEVELOP OR BE AGGRAVATED BY AMINES.

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICITY EFFECTS:

- AQUATIC TOXICITY: NO DATA IS AVAILABLE ON THE PRODUCT ITSELF.
- TOXICITY TO OTHER ORGANISMS: NO DATA AVAILABLE.

PERSISTANCE AND DEGRADABILITY:

- MOBILITY: NO DATA IS AVAILABLE ON THE PRODUCT ITSELF.
- BIOACCUMULATION: NO DATA IS AVAILABLE ON THE PRODUCT ITSELF.

SECTION 13 — DISPOSAL CONSIDERATIONS

- WASTE DISPOSAL METHOD: DISPOSE OF WASTE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- CONTAINER DISPOSAL: SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, ALL LABELED HAZARD PRECAUTIONS MUST BE OBSERVED. CONSULT WITH FEDERAL, STATE. AND LOCAL AUTHORITIES FOR DEFINITIONS OF "EMPTY" AND PROPER DISPOSAL PRACTICES.

SECTION 14 — TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

UN NUMBER:	UN 1760
PROPER SHIPPING NAME:	CORROSIVE LIQUID, N.O.S.
CONTAINS:	MODIFIED AMINE MIXTURE
HAZARD CLASS:	8
PACKAGING GROUP:	III

International Air Transportation (ICAO/IATA)

UN NUMBER:	UN 1760
PROPER SHIPPING NAME:	CORROSIVE LIQUID, N.O.S.
CONTAINS:	MODIFIED AMINE MIXTURE
HAZARD CLASS:	8
PACKAGING GROUP:	III

Water Transportation (IMO/IMDG)

UN NUMBER:	UN 1760
PROPER SHIPPING NAME:	CORROSIVE LIQUID, N.O.S.
CONTAINS:	MODIFIED AMINE MIXTURE
HAZARD CLASS:	8
PACKAGING GROUP:	III
MARINE POLLUTANT:	NO

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SECTION 15 — REGULATORY INFORMATION

A. CAL SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT OF 1986

NO. CHEMICAL NAME CAS. NO. CANCER/REPRO.TOX QUANTITY

3 BISPHENOL A 80-05-7 NO PENDING < 2%

THIS PRODUCT MAY CONTAIN TRACES OF PROP. 65 LISTED CHEMICALS AS IMPURITIES. HOWEVER, ANY USED AS INGREDIENTS ARE LISTED ABOVE.

B. CERCLA — §40 CFR 302.4

RELEASES EXCEEDING THE REPORTABLE QUANTITY (RQ) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER. (800)424-8802

RQ = 100 lbs. (UNLISTED HAZARDOUS WASTE — CHARACTERISTIC OF CORROSIVITY)

C. RCRA — §40 CFR 261.33

RQ = 1000 lbs. (UNLISTED CORROSIVE CONTENT > 10%)

D. SARA TITLE III — §52 CFR 13378, §52 CFR 21152

NO.	RQ (lbs.)	TPQ (lbs.)	SEC.313	313 CAT.	311/312
	(•1)	(•2)	(•3)	(•4)	(•5)
1	NONE	NOT LISTED	NOT LISTED	NONE	Ĥ1, H2
2	NONE	NOT LISTED	NOT LISTED	YES	H1, H2
3	NONE	NOT LISTED	YES	NONE	H1, H2

- 1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC. 302
- •2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SEC, 302
- •3 = TOXIC CHEMICAL, SEC. 313 (INDIVIDUAL CHEMICAL LISTED)
- •4 = TOXIC RELEASE INVENTORY FORM CATEGORY SEC. 313 (40 CFR 372.65 C)
- •5 = HAZARD CATEGORY FOR SARA SEC. 311/312 REPORTING
- H1 = IMMED. (ACUTE) HEALTH HAZARD H2 = DELAYED (CHRONIC) HEALTH HAZARD
- P3 = FIRE HAZARD P4 = SUDDEN PRESSURE RELEASE HAZARD P5 = REACTIVE HAZ.

E. VOC — SCAQMD RULES

NO. CHEMICAL QUANTITY VP mm HG gms./l. @ 20°C

NOTE: THIS PRODUCT DOES NOT CONTAIN SOLVENTS, BUT MAY CONTAIN INGREDIENTS WITH VP'S LOW ENOUGH TO BE EMITTED IF HEATED ALONE. WHEN 2 PART RESINS AND HARDENERS ARE PROPERLY MIXED TOGETHER THESE INGREDIENTS REACT TOGETHER AND ARE CONSUMED WITHOUT SIGNIFICANT ATMOSPHERIC EMISSIONS.

F. INTERNATIONAL CHEMICAL INVENTORY STATUS:

EINECS-EU	Listed, Exempted, Polymer substance, or as no longer polymer.
AICS-AUSTRALIA	All components are listed or exempted.
ENCS-JAPAN	All components are listed or exempted.
ISHL-JAPAN	All components are listed or exempted.
KECI/ECL-KOREA	All components are listed or exempted.
IECSC/SEPA-CHINA	All components are listed or exempted.
PICCS-PHILIPPINES	All components are listed or exempted.
DSL-CANADA	All components are listed or exempted.
TSCA-USA	All components are listed or exempted.

G. WHMIS (CANADA):

WHMIS: D2B Materials Causing Other Toxic Effects –Toxic Material

WHMIS: E — Corrosive Material

SECTION 16 — OTHER INFORMATION

REACTIVITY..... 2 = MODERATE

⇒ PERSONAL PROTECTION RATING TO BE SUPPLIED BY USER DEPENDING ON CONDITIONS OF USE.

DATE OF PREPARATION: 5/8/2015 SUPERSEDES: 5/16/2014

We believe that the information contained herein is correct as of the date of this Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of this product are not within the control of PTM & W, it is the user's obligation to determine the conditions of safe use of the product.

PTM & W makes no warranty, expressed or implied regarding the accuracy of these data. PTM & W assumes no responsibility for injury from the use of the product described herein. Further, there are many international, federal, state, and local laws and regulations governing chemical products and as it is beyond the scope of this SDS to determine which of these apply, it is the responsibility of the user to determine how these affect their use of the product.

PTM&W assumes no obligation or liability for the information given, or results obtained, all such being given and accepted at users' risk.

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