

ZIPPO MFG CO -- ZIPPO BLEND 1

=====  
MSDS Safety Information  
=====

FSC: 9140  
MSDS Date: 09/23/1993  
MSDS Num: BWFZJ  
LIIN: 00N056452  
Product ID: ZIPPO BLEND 1  
MFN: 01  
Responsible Party  
Cage: 2W274  
Name: ZIPPO MFG CO  
Address: CONGRESS ST EXTENTION  
City: BRADFORDE PA 16701  
Info Phone Number: 814-362-4541  
Emergency Phone Number: 814-362-4541  
Published: Y

=====  
Contractor Summary  
=====

Cage: 2W274  
Name: ZIPPO MFG CO  
Address: CONGRESS ST EXTENTION  
City: BRADFORDE PA 16701  
Phone: 814-362-4541

=====  
Ingredients  
=====

Cas: 64742-89-8  
RTECS #: 1003161VN  
Name: VM & P NAPHTHA; (ALIPHATIC PETROLEUM DISTILLATES); BP:185F/85C @ 760  
MM/HG. VP:38 MM/HG @ 68F/20C. CNTNS INGREGS 2 & 3.  
% Wt: 19  
OSHA PEL: 400 PPM MFR  
ACGIH TLV: N/K (FP N)

-----  
Cas: 108-88-3  
RTECS #: XS5250000  
Name: TOLUENE (SARA III)  
% Wt: <7  
OSHA PEL: 200 PPM  
ACGIH TLV: 50 PPM  
EPA Rpt Qty: 1000 LBS  
DOT Rpt Qty: 1000 LBS

-----  
Cas: 110-82-7  
RTECS #: GU6300000  
Name: CYCLOHEXANE (SARA III)  
% Wt: <3.5  
OSHA PEL: 300 PPM  
ACGIH TLV: 300 PPM  
EPA Rpt Qty: 1000 LBS  
DOT Rpt Qty: 1000 LBS

-----  
Cas: 64742-89-8  
RTECS #: 1003161VN  
Name: VM & P NAPHTHA; (ALIPHATIC PETROLEUM DISTILLATES); CONTAINS INGS 5  
& 6.  
% Wt: 81

OSHA PEL: 300 PPM MFR  
ACGIH TLV: 300 PPM MFR

-----  
Cas: 1330-20-7  
RTECS #: ZE2100000  
Name: XYLENE (SARA III)  
% Wt: <8  
OSHA PEL: 100 PPM  
ACGIH TLV: 100 PPM  
EPA Rpt Qty: 1000 LBS  
DOT Rpt Qty: 1000 LBS

-----  
Cas: 100-41-4  
RTECS #: DA0700000  
Name: BENZENE, ETHYL-; (ETHYL BENZENE) (SARA III)  
% Wt: 2  
OSHA PEL: 100 PPM  
ACGIH TLV: 100 PPM  
EPA Rpt Qty: 1000 LBS  
DOT Rpt Qty: 1000 LBS

-----  
Name: SUPDAT:AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

-----  
Name: EFTSOF OVEREXP:PNEUMONITIS WHICH CAN BE FATAL.

-----  
Name: FIRST AID PROC:WHICH CAN BE FATAL. INHAL:REMOVE TO FRESH AIR. IF BRTHG IS  
DFCLT, ADMIN OXYG. IF BRTHG HAS

-----  
Name: ING 9:STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND  
GET MEDICAL ATTENTION.

-----  
Name: SPILL PROC:BEEN COMPLETED. STOP SPILL AT SOURCE. PVNT FROM ENTERING  
DRAINS, SEWERS, STREAMS/OTHER BODIES OF

-----  
Name: ING 11:WATER. PVNT FROM SPREADING. IF RUNOFF OCCURS, NOTIFY AUTH AS REQ.  
PUMP/VACUUM TRANSFER SPILLED PROD TO

-----  
Name: ING 12:CLEAN CNTNRS FOR RECOVERY. ABSORB UNRECOVERABLE PROD. TRANSFER  
CONTAM ABSORB, SOIL & OTHER MATLS TO

-----  
Name: ING 13:CNTNRS FOR DISP. PVNT RUN-OFF TO SEWERS. STREAMS/OTHER BODIES OF  
WATER. IF RUN-OFF OCCURS, NOTIFY PROPER

-----  
Name: ING 14:AUTHORITIES AS REQUIRED, THAT A SPILL HAS OCCURED.

-----  
Name: OTHER PREC:PRESENCE OF OBVIOUS IGNIT SOURCES, PUBLISHED  
"AUTOIGNIT"/"IGNIT" TEMP VALUES CANNOT BE TREATED AS

-----  
Name: ING 16:SAFE OPERATING TEMPS IN CHEM PROCESSES W/OUT ANALYSIS OF ACTUAL  
PROCESS CNDTNS. ANY USE OF PROD IN

-----  
Name: ING 17:ELEVATED TEMP PROCESSES SHOULD BE THORO EVALUATED TO ESTABLISH  
& MAINTAIN SAFE OPERATING CNDTNS.

-----  
Name: ING 18:HYDROCARBON SOLVS ARE BASICALLY NON-CONDUCTORS OF ELECTRICITY  
& CAN BECOME ELECTROSTATICALLY CHARGED

-----  
Name: ING 19:DURING MIX, FILTERING/PUMPING AT HIGH FLOW RATES. IF CHARGE  
REACHES A SUFFICIENTLY HIGH LEVEL, SPKS CAN

Name: ING 20:FORM THAT MAY IGNITE VAPORS OF FLAMMABLE LIQUIDS.

Name: RESP PROT:(SEE YOUR INDUS HYGIENIST). ENGINEERING/ADMIN CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

Name: PROT GLOVES:SAFETY EQUIPMENT SUPPLIER).

Name: EYE PROT:W/OSHA REGS ARE ADVISED; HOWEVER, OSHA REGS ALSO PERMIT OTHER TYPE SFTY GLASSES. CONSULT YOUR SFTY

Name: ING 24:REPRESENTATIVE.

Health Hazards Data

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: NOTE:TOLUENE APPEARS ON NAVY LISTING OF OCCUP CHEM REPRO HAZS. SEEK CONSULTATION FROM APPROP HLTH PROFESSIONALS CONCERNING LATEST HAZ LIST INFO & SAFE HNDLG & EXPOS INFO (FP N). ACUTE:EYES:EXPOS TO LIQ/VAP MAY CAUSE MILD IRRIT. SYMPS MAY I NCLUDE STINGING, TEARING & REDNESS. SKIN:MILD IRRIT. PRLNGD/ (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: NOT RELEVANT

Signs And Symptions Of Overexposure: HLTH HAZS:RPTD EXPOS MAY DRY SKIN. SYMPS MAY INCLUDE REDNESS, BURNING, DRYING & CRACKING & BURNS.

INHAL:EXCESSIVE INHAL OF VAPS CAN CAUSE NASAL & RESP IRRIT, CNS EFTS INCLUDING DIZZ, WEAK, FATG, NAUS, HDCH & POSS UNCON & EVEN DEATH.

INGEST: GI IRRIT, NAUS, VOMIT & DIARR. ASPIR OF MATL INTO LUNGS CAN CAUSE CHEM

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid: SKIN:REMOVE CONTAM CLTHG & LAUNDER BEFORE REUSE. WASH EXPOSED AREA W/SOAP & WATER. IF SYMPS PERSIST, SEEK MED ATTN. EYES:MOVE AWAY FROM EXPOS & INTO FRESH AIR. FLUSH W/CLEAN WATER FOR AT LEAST 15 MIN WHILE HOLDING EYELIDS APART. IF SYMPS PE RSIST, SEEK MED ATTN. INGEST:DO NOT INDUCE VOMIT, KEEP PERSON WARM,QUIET, & GET MED ATTN. ASPIR OF MATL INTO LUNGS DUE TO VOMIT CAN CAUSE CHEM PNEUM

Handling and Disposal

Spill Release Procedures: SM SPILL:ABSORB LIQ ON VERMICULITE, FLOOR ABSORB/OTHER ABSORB MATL. LG SPILL:ELIM ALL IGNIT SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELEC SPKS). PERSONS NOT WEARING PROT EQUIP SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: SMALL SPILL:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. LARGE SPILL:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

Handling And Storage Precautions: CONTAINERS OF MATERIAL MAY BE HAZARDOUS WHEN EMPTIED, SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID).

Other Precautions: ALL HAZ PREC GIVEN IN THIS DATASHEET MUST BE OBSERVED.WARNING!!! SUDDEN RELS OF HOT ORGANIC CHEM VAPS/MISTS FROM PROCESS EQUIPOPERATING AT ELEVATED TEMPS & PRESS/SUDDEN INGRESS OF AIR INTO VACUUM EQUIPMAY RSLT IN IGNITS W/OUT

Fire and Explosion Hazard Information

Flash Point Text: >35F,>2C

Lower Limits: 0.9%

Extinguishing Media: REGULAR FOAM OR CARBON DIOXIDE OR DRY CHEMICAL.

Fire Fighting Procedures: WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire/Explosion Hazard: NEVER USE WELDING/CUTTING TORCH ON/NEAR DRUM (EVEN EMPTY) BECAUSE PROD (EVEN JUST RESIDUE) CAN IGNITE EXPLOS. ALL FIVE GALLON PAILS & LGR METAL CNTNRS (SUPDAT)

#### Control Measures

Respiratory Protection: IF WORKPLACE EXPOS LIM OF PROD/ANY COMPONENT IS EXCEEDED , A NIOSH/MSHA APPRVD AIR SUPPLIED RESP IS ADVISED IN ABSENCE OF PROPER ENVIRON CONTROL. OSHA REGS ALSO PERMIT OTHER NIOSH/MSHA RESPS (NEG-PRESS TYPE) UNDER SPECIFIED CNDTNS

Ventilation: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: WEAR RESIST GLOVES (CONSULT YOUR

Eye Protection: CHEM SPLASH GOGGS IN COMPLIANCE

Other Protective Equipment: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS. EYEWASH FNTN & DELUGE SHWR (FP N).

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health: EXPLO HAZ:INCLUDING TANK CARS & TANK TRUCKS SHOULD BE GROUNDED &/OR BONDED WHEN MATL IS TRANSFERRED. MATL IS HIGHLY VOLATILE & READILY GIVES OFF VAPS WHICH MAY TRAVEL ALONG GROUND/BE MOVED BY VENT & IGNITED BY PILOT LIGHTS, OTHER FLAMES, SP KS, HEATERS, SMKG, ELEC MOTORS, STATIC DISCHARGE,/OTHER IGNIT SOURCES

#### Physical/Chemical Properties

B.P. Text: ING 1

Vapor Pres: ING 1

Vapor Density: >1.00

Spec Gravity: 0.73

Evaporation Rate & Reference: SLOWER THAN ETHER

Appearance and Odor: NONE SPECIFIED BY MANUFACTURER.

Percent Volatiles by Volume: 100.00

#### Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: NONE SPECIFIED BY MANUFACTURER.

Materials To Avoid: AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products: MAY FORM TOXIC MATERIALS; CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT

#### Toxicological Information

#### Ecological Information

#### MSDS Transport Information

#### Regulatory Information

=====  
 Other Information  
 =====

=====  
 HAZCOM Label  
 =====

Product ID: ZIPPO BLEND 1  
 Cage: 2W274  
 Company Name: ZIPPO MFG CO  
 Street: CONGRESS ST EXTENTION  
 City: BRADFORDE PA  
 Zipcode: 16701  
 Health Emergency Phone: 814-362-4541  
 Label Required IND: Y  
 Date Of Label Review: 12/30/1994  
 Status Code: C  
 Label Date: 12/30/1994  
 Origination Code: G  
 Chronic Hazard IND: Y  
 Eye Protection IND: YES  
 Skin Protection IND: YES  
 Signal Word: DANGER  
 Respiratory Protection IND: YES  
 Health Hazard: Moderate  
 Contact Hazard: Moderate  
 Fire Hazard: Severe  
 Reactivity Hazard: None  
 Hazard And Precautions: FLAMMABLE LIQUID. ACUTE:EYES:EXPOSURE TO LIQUID OR  
 VAPOR MAY CAUSE MILD IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING AND  
 REDNESS. SKIN:MILD IRRITATION. PROLONGED OR REPEATED EXPOSURE MAY DRY CAUSING  
 REDNESS, BURNING, CRACKING AND BURN S. INHAL:CAN CAUSE NASAL AND RESPIRATORY  
 IRRITATION, CNS EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NAUSEA,  
 HEADACHE, POSSIBLE UNCONSCIOUSNESS AND DEATH. INGEST:GASTROINTESTINAL  
 IRRITATION, NAUSEA, VOMITING AND DIARRHEA. ASPIRATION HAZ ARD.  
 CHRONIC:CONTAINS TOLUENE WHICH APPEARS ON THE NAVY OCCUPATIONAL CHEMICAL  
 REPRODUCTIVE HAZARDS LIST (FP N).

=====  
 Disclaimer (provided with this information by the compiling agencies): This  
 information is formulated for use by elements of the Department of Defense.  
 The United States of America in no manner whatsoever expressly or implied  
 warrants, states, or intends said information to have any application, use or  
 viability by or to any person or persons outside the Department of Defense  
 nor any person or persons contracting with any instrumentality of the United  
 States of America and disclaims all liability for such use. Any person  
 utilizing this instruction who is not a military or civilian employee of the  
 United States of America should seek competent professional advice to verify  
 and assume responsibility for the suitability of this information to their  
 particular situation regardless of similarity to a corresponding Department  
 of Defense or other government situation.