3150 - all codes
3151 - "
3152 - disc. '92 MX
3153 - "
3154 - "
3155 - all
3156 - "
3157 - "
45008 - all codes
45012 - "
45066 - "
45009 - all codes except -4
45010 - " " -4
45011 - " " -4

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS AND RELATED MATERIALS

06/95

SECTION I - GENERAL INFORMATION

MANUFACTURED BY: C.P.F. - A Div. of Courtaulds Coatings Inc.
5300 W. 5TH AVENUE
GARY, INDIANA 46406
TELEPHONE: (219) 949-1684
MANUFACTURER'S IDENTIFICATION CODE: 100-L THROUGH 199-L
PRODUCT CLASS: ALKYD
TRADE NAME: "1 SHOT"® LETTERING ENAMELS

FOR CHEMICAL EMERGENCY

Spill, Leak, Fire, Exposure or Accident
Call Toll Free - Day or Night
CHEMTREC: 1-800-424-9300

MEDICAL ADVISORY NUMBER:
CONTACT YOUR
LOCAL POISON CONTROL CENTER
OR CALL 1-800-854-6813

SECTION II - HAZARDOUS INGREDIENTS

SEE TABLE I, SECTION II ATTACHED

SECTION III - PHYSICAL DATA

NOTE: DATA HEREIN (EXCEPT % VOL.) FOR SOLVENT PORTION ONLY

PHYSICAL STATE:	LIQUID
SOLUBILITY IN WATER:	INSOLUBLE
SPECIFIC GRAVITY (H2O=1):	.74-.89
BOILING POINT (°F):	246-385
FREEZING POINT:	N.E.
pH:	N.E.
PERCENT VOLATILE BY VOL.(%):	25%-35%
EVAPORATION RATE (ETHER=1):	9-70
VAPOR PRESSURE (mm Hg.):	2-15
VAPOR DENSITY (AIR=1):	3.8-4.9
ODOR THRESHOLD:	N.E.
COEFFICIENT OF WATER/OIL DISTRIBUTION:	N.E.
APPEARANCE AND ODOR:	WATER WHITE AND CHARACTERISTIC PETROLEUM ODOR.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: (100-105)°F METHOD USED: SCC

FLAMMABILITY CLASSIFICATION:
OSHA - Combustible Liquid Class II
DOT - Combustible Liquid

FLAMMABLE LIMITS: LEL - 1.0%

EXTINGUISHING MEDIA: CARBON DIOXIDE OR DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. WATER SPRAY SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE. DO NOT ENTER THE FIRE AREA WITHOUT PROPER PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE & EXPLOSION HAZARDS

CONDITIONS OF FLAMMABILITY: AVOID SOURCES OF IGNITION, FLAME, STATIC ELECTRICITY, HEAT OR ELECTRICAL SPARK.

SENSITIVITY TO MECHANICAL IMPACT: N.E.

SENSITIVITY TO STATIC DISCHARGE: CONTAINERS SHOULD BE GROUNDED WHEN POURING. ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. WORKERS ARE REQUIRED TO USE ONLY NON-FERROUS TOOLS AND WEAR NON-SPARKING SHOES IN AREAS WHERE EXPLOSION HAZARDS EXIST.

SECTION V - REACTIVITY DATA

STABILITY:	STABLE
CONDITIONS TO AVOID:	EXCESSIVE HEAT
INCOMPATIBILITY (MATERIALS TO AVOID):	NONE
HAZARDOUS DECOMPOSITION PRODUCTS:	CO, NOx, LEAD, CHROMIUM FUME
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR

SECTION VI - TOXICOLOGICAL PROPERTIES

THRESHOLD LIMIT VALUE: SEE TABLE I, SECTION II

EFFECTS OF ACUTE OVEREXPOSURE

INHALATION - CAN CAUSE IRRITATION OF THE RESPIRATORY TRACT, HEADACHE, NAUSEA, CENTRAL NERVOUS SYSTEM DEPRESSION, FATIGUE OR UNCONSCIOUSNESS.

INGESTION - SEVERE GASTROINTESTINAL DISTURBANCES CAN OCCUR INCLUDING NAUSEA, VOMITING, ANOREXIA, AND CONSTIPATION. ASPIRATION OF THIS PRODUCT INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONIA WHICH MAY BE FATAL.

EYES - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING AND BLURRED VISION. CONJUNCTIVAL AND CORNEAL INJURY MAY ALSO RESULT.

SKIN - CAN CAUSE IRRITATION AND DRYING OF SKIN. MAY ALSO CAUSE DERMATITIS AND ULCERATIONS.

EFFECTS OF CHRONIC OVEREXPOSURE

INHALATION AND INGESTION - PROLONGED OVEREXPOSURE TO SOLVENTS CAN CAUSE KIDNEY, LIVER AND OTHER SYSTEMIC DAMAGE. EXPOSURE TO SOLVENTS FOR PROLONGED TIMES AT MODERATE LEVELS CAN AFFECT HIGHER BRAIN FUNCTIONS AND MENTAL CAPACITY. PROLONGED OR REPEATED INHALATION AND INGESTION, SUCH AS FROM POOR HYGIENE, HOUSEKEEPING OR HANDLING PRACTICES, CAN RESULT IN LEAD POISONING. EARLY SYMPTOMS ARE FATIGUE, DISTURBANCE OF SLEEP, AND CONSTIPATION; MORE SEVERE EXPOSURE CAN CAUSE COLIC, ANEMIA AND NEURITIS (NERVE INFLAMMATION). PROLONGED OVEREXPOSURE CAN SEVERELY DAMAGE RED BLOOD CELL FORMATION, KIDNEYS AND NERVOUS SYSTEM. OTHER SYMPTOMS INCLUDE LOSS OF APPETITE, METALLIC TASTE IN MOUTH, ANXIETY, NAUSEA, PALLOR, HEADACHE, IRRITABILITY, MUSCLE AND JOINT PAIN, TREMORS, NUMBNESS, DIZZINESS, AND HYPERTENSION.

THE OSHA LEAD STANDARD REPORTS THAT LEAD MAY IMPAIR THE REPRODUCTIVE SYSTEMS OF BOTH MEN AND WOMEN; DAMAGE MAY ALSO BE CAUSED TO UNBORN FETUSES. LEAD CHROMATE IS SUSPECTED TO CAUSE LUNG CANCER AND IS LISTED BY THE NATIONAL TOXICOLOGY PROGRAM 1983 ANNUAL REPORT ON CARCINOGENS AND THE ACGIH, 1983-84 LIST OF INDUSTRIAL SUBSTANCES SUSPECT OF CARCINOGENIC POTENTIAL FOR MAN.

SENSITIZATION: SEE OVEREXPOSURE EFFECTS
TERATOGENICITY: N.E.
MUTAGENICITY: N.E.

TOXICOLOGICAL SYNERGISTIC PRODUCTS: N.E.

SECTION VII - PREVENTIVE MEASURES

RESPIRATORY PROTECTION: ORGANIC VAPOR RESPIRATOR WITH PARTICULATE FILTER APPROVED BY NIOSH.
PROTECTIVE GLOVES: BUTYL RUBBER OR EQUIVALENT.
EYE PROTECTION: SPECTACLES WITH SIDE SHIELDS.
OTHER PROTECTIVE EQUIPMENT: NONE

VENTILATION

LOCAL EXHAUST: PREFERRED - PAINT SPRAY BOOTH, 150 FPM FACE VELOCITY.
SPECIAL: NONE
MECHANICAL (GENERAL): ACCEPTABLE FOR SMALL VOLUME APPLICATIONS.
OTHER: NONE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ELIMINATE ALL HEAT SOURCES, OPEN FLAMES, AND OTHER SOURCES OF IGNITION. ABSORB WITH SOLID ABSORBENT. SHOVEL (NON-FERROUS) INTO CONTAINERS. IF LARGE QUANTITIES ARE SPILLED, PERSONAL PROTECTIVE EQUIPMENT MAY BE REQUIRED.

WASTE DISPOSAL METHOD: DISPOSE AS PAINT WASTE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: SECURE CLOSURES AND KEEP CONTAINERS UPRIGHT TO PREVENT LEAKAGE. STORE IN COOL, WELL VENTILATED AREA AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.
OTHER PRECAUTIONS: AVOID FREE FALL OF LIQUID IN EXCESS OF A FEW INCHES. DO NOT FLAME CUT, BRAZE, OR WELD WITHOUT NIOSH/MSHA-APPROVED MECHANICAL FILTER RESPIRATOR OR APPROPRIATE AND ADEQUATE VENTILATION. IF WORKERS ARE EXPOSED TO SPRAY APPLICATION OR ABRASIVE BLAST CLEANING, ENGINEERING AND ADMINISTRATIVE CONTROLS MUST BE USED TO MAINTAIN AN EXPOSURE LEVEL BELOW THE OSHA REQUIRED LEVEL, OR, USE A NIOSH/MSHA-APPROVED MECHANICAL FILTER RESPIRATOR FOR PROTECTION.

SPRAY APPLICATION: IF THE PRODUCT IS SPRAY APPLIED, USE A PARTICULATE RESPIRATOR. IF YOU CANNOT, OR, ARE UNSURE IF YOU KNOW HOW TO USE THIS PRODUCT IN A SAFE AND RESPONSIBLE MANNER, INCLUDING, BUT NOT LIMITED TO THE ABOVE PRECAUTIONS, DO NOT USE THIS PRODUCT.

SPECIAL SHIPPING INFORMATION: PAINT MUST BE SHIPPED IN METAL CONTAINERS AND PACKED IN STRONG OUTSIDE CARTONS (DOT-12B 30) WITH THE UN NUMBER (UN 1263), THE DESCRIPTION OF THE MATERIAL, AND THE FLASH POINT MARKED ON THE OUTSIDE PACKAGE.

SECTION VIII - FIRST AID MEASURES

INHALATION - IF OVERCOME BY VAPORS, REMOVE TO FRESH AIR. IF NOT BREATHING, RESTORE BREATHING. GET MEDICAL HELP OR A PHYSICIAN IMMEDIATELY.

EYE CONTACT - FLUSH WITH LARGE QUANTITIES OF WATER FOR 15 MINUTES. GET MEDICAL HELP OR A PHYSICIAN IMMEDIATELY.

SKIN CONTACT - REMOVE EXCESS MATERIAL WITH PAPER TOWELS OR RAGS. WASH WITH MILD SOAP AND WARM WATER. IF ANY REDNESS OR SWELLING PERSISTS, GET MEDICAL ATTENTION.

INGESTION - IF INGESTED, DO NOT INDUCE VOMITING. GET MEDICAL HELP OR A PHYSICIAN IMMEDIATELY.

SECTION IX - REGULATORY INFORMATION

SARA 313 / TITLE III: THIS PRODUCT LINE CONTAINS TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

CALIFORNIA PROPOSITION 65: THIS PRODUCT LINE CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.

HANDLE CAREFULLY IN ACCORDANCE WITH HAZARDOUS PROPERTIES OF FLAMMABLE/ COMBUSTIBLE LIQUIDS AS SUGGESTED BY THE NATIONAL FIRE PROTECTION ASSOCIATION. LIABILITY IS EXPRESSLY DISCLAIMED FOR ANY LOSS OR INJURY ARISING FROM THE USE OF THIS INFORMATION OR THE USE OF ANY MATERIALS DESIGNATED.

TABLE I, SECTION II
HAZARDOUS INGREDIENTS
"1 SHOT" LETTERING ENAMELS

CHEMICAL	CAS NO.	PEL	TLV TWA	TLV STEL	100-L %	101-L %	102-L %	104-L %	108-L %	109-L %	110-L %	111-L %	114-L %	115-L %	116-L %	117-L %	120-L %	124-L %	130-L %	132-L %	134-L %	142-L %	143-L %	144-L %
MINERAL SPIRITS	64741-41-9 64742-88-7 8052-41-3 8032-32-4	100 PPM	100 PPM	N.E.	20-30	10-20	20-30	20-30	20-30	30-40	30-40	30-40	20-30	20-30	10-20	20-30	20-30	20-30	20-30	10-20	20-30	20-30	30-40	30-40
TRIMETHYLBENZENE	25551-13-7	25 PPM	25 PPM	N.E.	1-5	1-5	1-5	1-5	1-5	.1-1	.1-1	.1-1	1-5	1-5	1-5	1-5	1-5	.1-1	1-5	1-5	1-5	1-5	1-5	1-5
* 1,2,4-TRIMETHYLBENZENE	95-63-6	25 PPM	25 PPM	35 PPM	1-5	1-5	1-5	1-5	1-5	.1-1	.1-1	.1-1	1-5	1-5	1-5	1-5	1-5	.1-1	1-5	1-5	1-5	.1-1	1-5	.1-1
V.M. & P. NAPHTHA	64742-89-8	300 PPM	300 PPM	N.E.	1-5	1-5	1-5	1-5	1-5	1-5	-	-	-	-	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	.1-1	1-5
* ALUMINUM FLAKE	7429-90-5	15.0 mg/m3	10.0 mg/m3	N.E.	-	<.1	-	-	-	-	-	.1-1	-	-	-	-	-	<.1	-	-	-	-	-	-
CARBON BLACK	1333-86-4	3.5 mg/m3	3.5 mg/m3	N.E.	-	-	-	-	-	-	-	-	.1-1	1-5	<.1	.1-1	-	-	-	-	-	-	-	-
* CHROMATES	12656-85-8 1344-37-2 7758-97-6	0.10 mg/m3	0.05 mg/m3	N.E.	5-10	-	1-5	1-5	-	-	-	-	.1-1	-	-	-	.1-1	5-10	5-10	1-5	5-10	1-5	-	1-5
* COPPER	7440-50-8	1.0 mg/m3	1.0 mg/m3	N.E.	-	-	-	-	-	20-30	20-30	20-30	-	-	-	-	-	-	-	-	-	-	-	-
* COPPER COMPOUND	1328-53-6 147-14-8 68987-63-3	N.E.	N.E.	N.E.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1-5	1-5	-
IRON BLUE	14038-43-8	15.0 mg/m3	15.0 mg/m3	N.E.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1-5
IRON OXIDE	1309-37-1	N.E.	N.E.	N.E.	-	-	-	-	-	-	-	-	10-20	10-20	1-5	10-20	-	-	-	-	-	-	-	-
* LEAD	7439-92-1	0.05 mg/m3	0.15 mg/m3	N.E.	15-25	.1-1	10-15	5-10	.1-1	-	-	-	1-5	.1-1	.1-1	-	1-5	15-25	15-25	20-30	15-25	5-10	-	5-10
* MANGANESE COMPOUND	12686-94-7	N.E.	N.E.	N.E.	-	-	-	1-5	-	-	-	-	-	-	<.1	.1-1	-	-	-	-	-	-	-	-
MOLYBDENUM	7439-98-7	5.0 mg/m3	5.0 mg/m3	N.E.	1-5	-	.1-1	.1-1	-	-	-	-	-	-	-	-	<.1	.1-1	-	-	-	-	-	-
SILICA	14808-60-7 7631-86-9	N.E.	N.E.	N.E.	-	.1-1	<.1	-	-	1-5	.1-1	.1-1	.1-1	.1-1	.1-1	.1-1	1-5	1-5	<.1	.1-1	<.1	<.1	.1-1	.1-1	<.1
* ZINC	7440-66-6	N.E.	0.05 mg/m3	N.E.	-	-	-	-	-	1-5	-	5-10	-	-	-	-	-	-	-	-	-	-	-	-

* This is a toxic chemical subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.

N.E. = Not Established

FROM CONSUMERS PAINT 10. 3.1995 12:20 P. 7

TABLE I, SECTION II
HAZARDOUS INGREDIENTS
"1 SHOT" LETTERING ENAMELS

CHEMICAL	CAS NO.	PEL	TLV TWA	TLV STEL	148-L %	149-L %	150-L %	151-L %	152-L %	153-L %	154-L %	155-L %	156-L %	159-L %	160-L %	162-L %	163-L %	164-L %	165-L %	166-L %	191-L %	193-L %	195-L %	199-L %
MINERAL SPIRITS	64741-41-9 64742-88-7 8052-41-3 8032-32-4	100 PPM	100 PPM	N.E.	20-30	20-30	30-40	10-20	30-40	30-40	20-30	30-40	20-30	30-40	20-30	20-30	30-40	30-40	30-40	20-30	20-30	40-50	20-30	40-50
TRIMETHYLBENZENE	25551-13-7	25 PPM	25 PPM	N.E.	1-5	1-5	1-5	1-5	1-5	1-5	.1-1	1-5	1-5	–	1-5	1-5	.1-1	1-5	1-5	1-5	1-5	–	1-5	–
* 1,2,4-TRIMETHYLBENZENE	95-63-6	25 PPM	25 PPM	35 PPM	.1-1	1-5	1-5	1-5	1-1	.1-1	.1-1	1-5	1-5	.1-1	1-5	1-5	1-1	1-5	1-5	1-5	.1-1	–	1-5	1-1
VM & P NAPHTHA	64742-89-8	300 PPM	300 PPM	N.E.	1-5	1-5	1-5	1-5	–	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-1	1-5	1-5	1-5	1-5	1-5	1-1
* ALUMINUM FLAKE	7429-90-5	15.0 mg/m3	10.0 mg/m3	N.E.	–	–	–	–	<.1	–	–	–	–	–	–	–	–	–	1-5	1-5	1-5	1-5	1-5	1-1
CARBON BLACK	1333-86-4	3.5 mg/m3	3.5 mg/m3	N.E.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	10-20	–	–
* CHROMATES	12656-85-8 1344-37-2 7758-97-6	0.10 mg/m3	0.05 mg/m3	N.E.	1-5	1-1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	<.1	–	<1	1-5
* COPPER	7440-50-8	1.0 mg/m3	1.0 mg/m3	N.E.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1-5	1-5	–	–	–	–
* COPPER COMPOUND	1328-53-6 147-14-8 69987-60-3	N.E.	N.E.	N.E.	–	1-1	1-5	.1-1	1-5	1-5	1-1	1-5	1-5	–	–	–	–	–	–	–	–	–	–	–
IRON BLUE	14038-43-8	15.0 mg/m3	15.0 mg/m3	N.E.	1-5	–	.1-1	–	.1-1	–	–	–	–	5-15	–	–	–	–	–	–	–	–	–	–
IRON OXIDE	1309-37-1	N.E.	N.E.	N.E.	–	–	–	–	.1-1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
* LEAD	7439-92-1	0.05 mg/m3	0.15 mg/m3	N.E.	5-10	1-5	.1-1	.1-1	.1-1	.1-1	–	–	.1-1	.1-1	.1-1	.1-1	.1-1	–	–	1-5	1-5	–	1-5	–
* MANGANESE COMPOUND	12068-94-7	N.E.	N.E.	N.E.	–	–	–	–	.1-1	–	–	–	–	–	–	–	–	–	–	1-5	10-15	–	.1-1	.1-1
MOLYBDENUM	7439-98-7	5.0 mg/m3	5.0 mg/m3	N.E.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	.1-1	–	<.1	–
SILICA	14808-60-7 7631-86-9	N.E.	N.E.	N.E.	–	1-5	.1-1	1-5	.1-1	1-5	1-5	.1-1	1-1	.1-1	1-5	1-1	.1-1	.1-1	.1-1	1-5	.1-1	–	1-5	–
* ZINC	7440-66-6	N.E.	0.05 mg/m3	N.E.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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N.E. = Not Established