STATE OF TENNESSEE
DEPARTMENT OF HEALTH + ENVIRONMENT
DIVISION OF AIR POLUTION CONTROL



4th Floor Customs House 701 Broadway

73 Nashville, TN 37219-5403 Telephone (615) 741-3931

### PERMIT APPLICATION

PI	SIAS TURE	OR PRINT AND		N DUPLICATE RMS.	FOR EACH E	MISSION S	OURCE, ATTA	СН
		SOURCE DESCR	RIPTION FO	RMS.				
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STATE OF TENNESSEE
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4th Floor Customs House 701 Broadway Nashville, TN 37219-5403 Telephone: (615) 741-3931

### SURFACE COATING DESCRIPTION

D	TAGE TYPE OF P	DINI AND CHOMIT IN	NUDITALTE FOR FLOU	CDDAY DOOTH DID T	A 1117 O D
-		RINT AND SUBMIT IN I		APPLICATION.	ANK UK
1.	ORGANIZATION NAM			I/// APC COMPANY-POIN	T NO.
2.	EMISSION SOURCE	NO.(AS ON PERMIT APPLICA		1/// APC SEQUENCE NO.	
3.	SOURCE LATITUDE	LONGITUDE	UTM VERTICAL	1 UTM HORIZONTAL	
4.	TYPE OF COATING	SPRAY BOOTH	DIP TANK	OPEN AR	
5.	MANUFACTURER	NONE	MODEL NUMBER	SERIAL NUMBER(OR	PLANT ID)
	CONSTRUCTION DA	TE	MODIFICATION DAT	TE	
	DESCRIBE ANY MO	DIFICATIONS *			
	* Alluc	ANT WISHE	S 70 LIMI	7 ANNUAL	USAC
	TO a	60 DAY/YR	AND MAXI	MUM DAILY	USAG
	10 -	JUST UNDE	T 10 TPY	TOTAL FA	GILIT
	DESCRIBE APTICLE	S COATED			/

LARGE STAULTURAL STEEL BUILDING COMPINENTS ARE SIRAY COATEDIN ASSEMBLY AREA. — BED OXIDE PRIMER.

7.	NORMAL OPERATION: ->	HOURS/DA	YI DAYS/WEEK	WEEKS/YEAR 52	DAYS/YEAR 260
8.	SPRAY BOOTH DIMENSIONS (FT): ->	WIDTH	HEIGHT	DEPTH	NUMBER OF OPEN SIDES
9.	METHOD OF SPRAY:	AIRLESS   	l AIR I ATOMIZED	ELECTROSTAT	IC  OVERSPRAY  DATE  AIR  (PERCENT)  PURCHASED *  ATOMIZED    ,
10.	EXHAUST FAN DATA:			I TOTAL HORSEPOWER	TOTAL VOLUME (CFM)
11.	EXHAUST CONTROL: ->	I NONE	WATERWASH	EXHAUST   BAFFLE   FILTERS   PLATES	ADSORP-  OTHER **
12.	EXHAUST STACK DATA: ***		HEIGHT (FT:		SPECIFY SERIAL NOS. THAT SHARE   THIS VENT
		1	l l	1	1

<sup>\*</sup> THE ACTUAL SURFACE COATING EQUIPMENT (SPRAY GUN, SPRAY HEADS, ETC.), AND NOT THE SPRAY BOOTH PER SE, DETERMINES THE STATUS OF THE SOURCE (NEW OR EXISTING).

<sup>\*\*</sup> ATTACH A DETAILED DESCRIPTION.

<sup>\*\*\*</sup> COMPLETE ONE LINE FOR EACH STACK OR VENT.

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13.COATINGS AND THINNERS USED: LIST ALL TYPES OF COATINGS AND THINNERS USED AND ATTACH A STATEMENT OF THE CHEMICAL COMPOSITION OF EACH. THIS STATEMENT USUALLY MAY BE OBTAINED FROM THE COATING OR THINNER SUPPLIER. THE MINIMUM INFORMATION REQUIRED IS THE PERCENT OF SOLIDS BY WEIGHT, THE PERCENT VOLATILE BY WEIGHT, THE HYDROCARBON COMPOSITION AND/OR DESCRIPTION OF THE VOLATILE COMPONENT, AND THE DENSITY OF THE COATING OR THINNER IN POUNDS PER GALLON.

	1		1		1	1_		GUANTI	TY US	ED
LINE   COATING NAME			5   %	VOLATILE	DENSITY  (LBS/GAL)	1	GALLO AVERAGE	NS/DAY   MAXIM	IM ¥	GAL/MO
A. HISOL REPOXIDE PRI		74	Ī	26	173.48	ı	AVERAGE	1 18.	9	l .
B. 1 3.25 # voc/6			1			ı		t.		
C. EXT CLEAR LACGUE	ر ا	22	l	78.	1 7,5	1		10.2	5	
D. I TOLVENE	1	0	1	100	17.24	J.	7::	1 2.	1	U
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\* NOTE: FOR NEW CONSTRUCTION THIS QUANTITY WILL BE USED AS A PERMIT LIMITATION ON CAPACITY.

# TATE FABRICATING COMPANY, INC. WHITE HOUSE, TENNESSEE

### MAXIMUM ANNUAL VOC EMISSIONS CALCULATIONS

#### SOURCE 001

COATING OF LARGE STRUCTURAL STEEL BUILDING COMPONENTS WITH HI SOL RED OXIDE PRIMER AND LACQUER COATING OF CHAIRS/TABLES, ETC.

- A. Maximum daily usages: 18.5 gpd of primer and 2.1 gpd of toluene thinner.
- B. Maximum annual days: 260
- C. Annual VOC:

VOC from Primer: ((18.5 gal primer)(3.25 lb VOC/gal) + (2.1 gal toluene)(7.24 lb VOC/gal)(260 days/yr operation))/2000 lb/ton = 9.79 TPY of VOC

VOC from Lacquer: (0.25 gal lacquer)(.78)(7.5)(260 days/yr)/2000 lb/ton = 0.19 TPY of VOC

Total Annual VOC = 9.79 + 0.19 = 9.98 TPY

### ATERIAL SAFETY DATA SHEET

PRODUCT NAME: HI SOL RED OXIDE PRIMER

HMIS CODES: H F R

PRODUCT CODE: 28DR147

230

MANUFACTURER'S NAME: MOBILE PAINT MANUFACTURING CO. INC.

ADDRESS: P.O. BOX 717, THEODORE, AL 36582

EMERGENCY PHONE: 1-800+255-3924

DATE REVISED : 01-15-91

INFORMATION PHONE: (205)443-6110

NAME OF PREPARER : JULIE HOAGLAND

REASON REVISED : NEW

======= SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

#		OCCUPAT	TIONAL EXPOSE	RE LIMITS	VAPOR PRE		
HAZARDOUS COMPONENTS	CAS NUMBER	osha pel	ACGIH TLV	OTHER	aa Hg @	TEMP	PERCENT
VM & P NAPHTHA	8030-30-6		300 PPN	1350 MG/M3	12.0	68F	⟨ 5.0×
*XYLENE	1339-20-7	100 PPM	100 PPM	435 MG/M3	6.0	68F	10
*TOLUENE	108-88-3	100 PPM	100 PPM	375 MG/M3	22.0	68F	9
CALCIUM CARBONATE	1317-65-3	15 MG/M3	10 MG/M3		N/	Α	30
HYDROUS CALCIUM MAGNESIUM SILICATE	14807-96-6	20 MPPCF	2 MG/M3		N/	A	5
MINERAL SPIRITS	8052-41-3	100 PPM	100 PPM	525 MG/M3	2.0	68F	( 5.0%

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

BOILING RANGE: 200 to 300 Deg F VAPOR DENSITY: HEAVIER THAN AIR SPECIFIC GRAVITY (H20=1): 1.5
EVAPORATION RATE: SLOWER THAN ETHER

COATING V.O.C.: 3.25 LB/GL ( 389 G/L)

SOLUBILITY IN WATER: NEGLIGIBLE

APPEARANCE AND ODOR: TYPICAL PAINT SOLVENT ODOR

FLASH POINT: (73 F METHOD USED: SETAFLASH

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.9% UPPER: 7.0%

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

IS EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIALLY APPARENT. OBTAIN MEDICAL ATTENTION. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, AND OPEN FLAME.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS.
FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. WATER SPRAY MAY BE INEFFECTIVE.
IF WATER IS USED. FOG NOZZLES ARE PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP.

SECTION V - REACTIVITY DATE

STABILITY: STABLE CONDITIONS TO AVOID HIGH TEMPERATURES

INCOMPATIBILITY (MATERIALS TO AVOID)
OXIDIZING MATERIALS

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
MAY PRODUCE HAZARDOUS FUMES WHEN HEATED TO DECOMPOSITION AS IN WELDING.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
ANESTHETIC. EXCESSIVE INHALATION CAN CAUSE IRRITATION OF THE RESPIRATORY TRACT, OR ACUTE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS, COMA AND EVEN ASPHYXIATION.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE SKIN: MODERATE IRRITATION, DEFATTING, DERMATITIS. MAY BE A SENSITIZER IN SOME INDIVIDUALS. EYES: SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION. MAY BE A SENSITIZER IN SOME INDIVIDUALS.

IQUID CAN BE ABSORBED THROUGH THE SKIN RESULTING IN SYMPTOMS SIMILAR TO THE INHALATION EFFECTS ABOVE.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. ASPIRATION INTO THE LUNGS DURING INGESTION OR VOMITING MAY
CAUSE MILD TO SEVERE PULMONARY INJURY AND POSSIBLY EVEN DEATH.

HEALTH HAZARDS (ACUTE AND CHRONIC)
REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS
SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE EXPOSURE TO PETROLEUM SOLVENTS WAY AGGRAVATE PREEXISTING DERMATITIS.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. RESTORE BREATHING IF NECESSARY. TREAT
SYMPTOMATICALLY. CONSULT A PHYSICIAN.

SKIN: WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE AND LAUNDER CONTAMINATED CLOTHING. CONSULT A PHYSICIAN IF NEEDED.

1: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. TAKE TO A PHYSICIAN FOR MEDICAL TREATMENT.

1: PLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. TAKE TO A PHYSICIAN FOR MEDICAL TREATMENT.

1: PLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. TAKE TO A PHYSICIAN FOR MEDICAL TREATMENT.

======== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ======

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS. VENTILATE AREA. CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

WASTE DISPOSAL METHOD

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. INCINERATE IN APPROVED FACILITY. DO NOT INCINERATE CLOSED CONTAINERS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

DO NOT STORE ABOVE 120 F. STORE LARGE QUANTITIES ONLY IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. KEEP CLOSURES TIGHT AND CONTAINER UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE OR USE NEAR HEAT, SPARKS OR FLAME. NEVER USE PRESSURE TO EMPTY. DRUM MUST NOT BE WASHED OUT OR USED FOR OTHER PURPOSES. DRUMS OF THIS MATERIAL SHOULD BE GROUNDED WHEN POURING.

OTHER PRECAUTIONS

DO NOT GET IN EYES. AVOID SKIN CONTACT. CAN CAUSE ALLERGIC RESPIRATORY REACTION. CAN CAUSE ALLERGIC SKIN REACTION. PRE-VENT PROLONGED OR REPEATED BREATHING OF VAPORS OR SPRAY MIST. AVOID BREATHING OF SANDING DUST. WASH CONTAMINATED CLOTH-ING THOROUGHLY, WASH SKIN THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. CLOSE CONTAINER AFTER EACH USE. DO NOT TRANSFER THIS PRODUCT TO UNLABELED CONTAINERS. DO NOT HANDLE UNTIL THE MANUFACTURERS SAFETY PRECAUTIONS HAVE BEEN READ AND UNDER-STOOD. KEEP OUT OF REACH OF CHILDREN.

RESPIRATORY PROTECTION

IN OUTDOOR OR OPEN AREAS USE NIOSH/MSHA APPROVED MECHANICAL FILTER RESPIRATOR TO REMOVE SOLID AIR BORNE PARTICLES. IN RESTRICTED VENTILATION AREAS USE NIOSH/MSHA APPROVED CHEMICAL-MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE AND GAS AND VAPOR. IN CONFINED AREAS USE NIGSH/MSHA APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

**UENTILATION** 

ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE TO OSHA REGULATION 29 CFR 1910.94, 1910.107, 1910.108. REMOVE DECOMPOSITION PRODUCTS FORMED DURING WELDING OR FLAME CUTTING ON SURFACE COATED WITH THIS PRODUCT. IF BAKING VENT FUMES.

PROTECTIVE GLOVES RECOMMENDED.

EYE PROTECTION

SAFETY EYEWEAR INCLUDING SPLASH GUARDS OR SIDE SHIELDS RECOMMENDED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

USE PROTECTIVE OUTER-WEAR AND PREVENT PROLONGED SKIN CONTACT WITH CONTAMINATED CLOTHING.

WORK/HYGIENIC PRACTICES

AVOID BREATHING VAPORS AND CONTACT WITH SKIN. WASH SKIN THOROUGHLY BEFORE BREAKS AND MEALS AND AT END OF WORK PERIOD.

JISCLAIMER

.HE INFORMATION PROVIDED IN THIS MSDS HAS BEEN OBTAINED FROM SOURCES BELIEVED TO BE ACCURATE AND RELIABLE. IT IS FUR-NISHED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. RECIPIENTS SHOULD DETERMINE THAT THE INFORMATION IS CURRENT AND SUITABLE FOR THE PROTECTION OF THE ENVIRONMENT AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS PRODUCT.

#### MATERIAL SAFETY DATA SHEET FOR COATINGS, RESING, AND RELATED MATERIALS

MANUFACTURER'S NAME

The Sayntian Labouer Afg 💷

Font Ghanden Onive

Emanklin, TN 37064

EMERGENCY TELEPHONE NUMBER -Oremaneo 1-800-624-9300

Egyphian 1-615-790-3881

DATE OF PREPARATION

03/07/89

INFORMATION TELEPHONE NUMBER

Egyptian 1-615-790-3881

customen TATE FASRICATING COMPANY

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER CH-273

PRODUCT NAME - EXTERIOR CLEAR

PRODUCT CLASS - CELLULOSIC LACGUER

HAZARDOUG MATERIALS IDENTIFICATION SYSTEM HI F3 R1 P1

INGREDIENT	CAS		& VOL		TIONAL	VOLUME	VAPOR
	REGISTRY NUMBER		TENT TENT	TLV	A June State	PERCENT	MM HIS
	20 1 mg	rywym.					
Communication of communication of the Communication	Fine Names .	The Name					
	San	5		4EG.0	yio.o	2.0	
TSCPROPANOL			2	400.0 50.0	400.0 50.0	2.0 1.4	
ISCPROPANOL N-BUTANOL	3 - F - F - F - F						4.
ISCPROPANOL V-BUTANOL BUTYL CELLOSOLYE	50-83-3 71-36-3		2	50.0	50.0	1.4	4.
ISCPROPANOL V-BUTANOL BUTYL CELLOSOLYE METHYL ETHYL KETONE	07-63-7 71-36-3 111-76-2	5	2	50.0 25.0	50.0 05.5	1.4	And the second
ISCPROPANOL N-BUTANOL BUTYL CELLOSOLYE METHYL ETHYL KETONE	: 1-53-1 71-36-3 111-76-2 78-95-3	5 10	2 11 4	50.0 25.0 200.0	50.0 05.5 200.0	1.4 1.1 1.8	7400g PPC

\*NOTICE: This chemical is subject to the reporting requirements of Section 313 of Title XII of the Superfund Amendments and Resulthorization Ado of 1986 (SARA) and AD OFF Pent 372 (Form 2).

"SECTION ITS - PRYSICAL DATA"

FIGURE OF STANDERS OF THE STAN ANTIFICATION RATE SLOWER STEEN HITTER TWESTER PER DALLIN 7.5 -46/6AL - VAPOR DEVSETY hemylon inam as: William William St. WEIGHT VOLATILE TO 78%

WT % NOLATILES = 78%

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION OSHA FLAMMABLE LIQUID CLASS 18
FLASH POINT 20.0 \*F TCC LOWER EXPLOSIVE LIMIT see section II, LEL

EXTINGUISHING MEDIA foam, CO2, dry chemical, class B fire extinguisher

UNUSUAL FIRE AND EXPLOSION HAZARDS Vapons may cause flash fire. Vapon may ignite explosively. Vapons may spread long distances. Prevent buildup of vapons. Extinguish all pilot lights and turn off heaters, non-explosion proof electrical equipment and other sources of ignition during use and until vapons are all gone. Do not weld or cut drums in which paint or thinner has been stored.

#### SPECIAL FIREFIGHTING PROCEDURES

Water spray may be ineffective to extinguish fire. Water should be used to cool containers exposed to fire. Use a self contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode.

#### SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY: NTP, NO, IARC, NO, OSHA, NO

THRESHOLD LIMIT VALUE see section II, PEL, TLV EFFECTS OF OVEREXPOSURE

Acute: inhalation -- headache, nausea, impairment of reaction time and coordination. Skin contact -- prolonged and repeated may cause irritation. Impestion -- upset stomach, irritated mouth and throat. Eve contact -- may cause severe irritation.

Chronic: reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### MEDICAL CONDITIONS PROVE TO AGGRAVATION BY EXPOSURE

Persons with known allergies, known impaired health, and pregnant women should consult with their physician before using this product. See msds(s) on the individual listed components in section II for further information.

PRIMARY ROUTE(S) OF ENTRY: dermal, inhalation and ingestion

#### EMERGENCY AND FIRST AID PROCEDURES

if on skin: thoroughly wash exposed area with scap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

If in eyes: flush with large amounts of water, lifting upper and lower lids occasionally, and get medical attention.

If swallowed: immediately drink two glasses of water to dilute. Never give anything by mouth to an unconcious person. \* Get medical attention immediately.

If breathed: if affected, remove individual to fresh air. If breathing is difficult, administer oxygen: If breathing has stopped give artificial respiration. Keep person warm, quiet and get medical attention.

#### SECTION V1 - REACTIVITY DATA

STABILITY material is stable HAZARDOUS POLYMERIZATION will not occur

HAZARDOUS DECOMPOSITION PRODUCTS includes carbon monoxide, coarbon dioxide, oxides of nitrogen, halogens

-CONDITIONS TO AVOID. To prevent mishaps, keep closures tight and upright to revent leakage. Keep container closed when not in use. In cree of spillage, absorb with inent material and dispose of in accordance with applicable regulations.

INCOMPATIBILITY (MATERIALS TO AVOID) Avoid strong mineral acids or alkalies. Keep out of direct sunlight and away from sources of heat.

#### SECTION VII - SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition, ventilate, and remove with inert absorbent.
People not directly involved in the cleanup effort should be excluded from the area. Do not undertake a cleanup effort alone.

#### WASTE DISPOSAL METHOD

Mix with an inert material and incinerate in an EPA approved incinerator. Do not incinerate closed containers. Observe all Federal, state and local laws concerning health and pollution.

### SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION Adequate ventilation is required. Read, understand, and follow product label instructions.

VENTILATION Provide sufficient ventilation in volume and pattern to keep vapor concentration below the given TLV and LEL.

FROTECTIVE GLOVES Required for prolonged or repeated contact.

Wear resistant gloves such as natural rubber, neoprene, buna N, or nitrile.

EYE PROTECTION Use safety eyewear with perforated sideshields.

OTHER PROTECTIVE EQUIPMENT - see next paragraph
HYGIENIC PRACTICES Do not breath vapors or spray mist. Do not get in
eyes, on skin or on clothing. Wear appropriate, properly fitted respirator
(NIOSH/MSHA approved) during and after application unless air monitoring
demonstrates vapor or mist levels are below applicable limits. Follow
respirator manufacturer's direction for respirator use.

#### SECTION IX - SPECIAL PRECAUTIONS

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

when away from heat, spanks, and open flame. Close container after each use. Consult NFPA and OSHA for additional storage requirements.

Use approved bonding and grounding procedures. Read, understand, and follow the product label.

#### OTHER PRECAUTIONS

The information supplied herein is believed to be reliable. Since the use of any of the designated materials or products is completely beyond our control, liability is expressly disclaimed for any loss or injury arising out of the use of this information or the use of any materials or products designated.

EXON COMPANY, USA DIVISION OF EXXON CORPORATION

DATE ISSUED

7/1/85

MATERIAL SAFETY DATA SHEET

EXXON COMPANY, U.S.A.

P.D. BOX 2180

HOUSTON, TX 77252-2180

RECEIVED

A. IDENTIFICATION AND EMERGENCY INFORMATION

FEB 9 198/

PRODUCT NAME

PRODUCT CODE 132010 - 00650 TATE FAB CO., INC.

CHEMICAL NAME

Petroleum Solvent

CAS NUMBER

PRODUCT APPEARANCE AND ODOR Clear water-white liquid Aromatic hydrocarbon odor

EMERGENCY TELEPHONE NUMBER (713) 656-3424

B. COMPONENTS AND HAZARD INFORMATION

COMPONENTS

CAS NO. OF COMPONENTS

APPROXIMATE CONCENTRATION

This product can be defined as:

Toluene

108-88-3

EXPOSURE LIMIT FOR TOTAL PRODUCT

100 ppm (375 mg/m3) for an 8-hour workday

BASIS

Recommended by the American Conference of Governmental Industrial Hygienists (ACGIH)

C. EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT

In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water.

INHALATION

If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

INGESTION

If ingested, DO NOT induce vomiting; call a physician immediately,

#### VENTILATION

Provide greater than 60 feet per minute hood face velocity. Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Use explosion-proof equipment. No smoking or open lights.

### RESPIRATORY PROTECTION

Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

#### PROTECTIVE GLOVES

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

#### EYE PROTECTION

Use splash goggles or face shield when eye contact may occur.

#### OTHER PROTECTIVE EQUIPMENT

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

#### WORK PRACTICES / ENGINEERING CONTROLS

Keep containers closed when not in use. Do not handle or store near heat, sparks, flame or strong oxidants. To prevent fire or explosion risk from static accumulation and discharge, effectively ground product transfer—system in accordance with the National Fire Protection Association standard for petroleum products.

#### PERSONAL HYGIENE

Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean and dry before reuse. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

### J. TRANSPORTATION INFORMATION

#### TRANSPORTATION INCIDENT INFORMATION

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued. Exxon does not warrant or guarantee their accuracy or reliability, and Exxon shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

FOR ADDITIONAL INFORMATION ON HEALTH EFFECTS CONTACT:
DIRECTOR OF INDUSTRIAL HYGIENE EXXON COMPANY, U.S.A.
P. O. BOX 2180 RDDM 2737 HOUSTON, TX 77252-2180 (713) 656-2443

FOR OTHER PRODUCT INFORMATION CONTACT:

MANAGER, MARKETING TECHNICAL SERVICES EXXON COMPANY, U.S.A. P. O. BOX 2180 ROOM 2455 HOUSTON, IX 77252-2180 (713) 656-5949 TOXICITY INFORMATION

Product has a low order of acute oral toxicity, but minute amounts aspirated into the lungs during ingestion may cause severe pulmonary injury or death.

### F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE 110.2-111.0°C (230.4-231.8°F)

SPECIFIC GRAVITY (15.6 C/15.6 C) 0.87

MOLECULAR WEIGHT

pH Essentially neutral

POUR, CONGEALING OR MELTING POINT Less than -18°C (0°F) Pour Point by ASTM D 97

VISCOSITY

0.57 CP & 25°C ASTM D 445

VAPOR PRESSURE

Approximately 54 mm Hg € 25°C

ASTM D 2879

VAPOR DENSITY (AIR = 1)
Approximately 3.2

PERCENT VOLATILE BY VOLUME 100 & 1 atm. and 25°C (77°F)

EVAPORATION RATE # 1 ATM. AND 25 C (77 F) (n-BUTYL ACETATE = 1)
1.8

SOLUBILITY IN WATER # 1 ATM. AND 25 C (77 F) Negligible: less than 0.1%

### G. REACTIVITY

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

### H. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas.

Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, flammable vapors from absorbed material.

REPORTABLE QUANTITY (RQ), EPA REGULATION 40 CFR 302

RO for toluene (1,000 pounds): 1,000 pounds of product or 454 kg or 138 gallons.

## I. PROTECTION AND PRECAUTIONS