



## MATERIAL SAFETY DATA SHEET

Ford Internal Reference Number(Tox No. : 042853)

Print Date : 09/16/03

Language: **English**

Part Type and Number	Part name
Rotunda 112-R0027	R-12 FLUORO-LITE A/C FLUORESCENT TRACER DYE (1 FLUID OZ.) (obsolete)
Rotunda 164-R3709	R-12 A/C FLUORESCENT TRACER DYE (12 - 1 FLUID OZ. BOTTLES) (obsolete)
Rotunda 164-R0756	12V MASTER UV LEAK DETECTOR KIT (KIT) (obsolete)
KIT CONTAINS 1 FLUID OZ. BOTTLES OF R-12	LEAK DETECTION DYE
Rotunda 164-R0758	110V MASTER UV LEAK DETECTOR KIT (KIT) (obsolete)
KIT CONTAINS 1 FLUID OZ. BOTTLES OF R-12	LEAK DETECTION DYE
Rotunda 164-R3736	FLUORO-LITE/P LEAK DETECTION DYE (6 - 1 FLUID OZ. BOTTLES) (obsolete)
Rotunda 164-R3737	FLUORO-LITE/P LEAK DETECTION DYE (12 - 0.25 FL. OZ. BOTTLES) (obsolete)

This material has not been identified against a material Specification.

### ===== CHEMICAL AND PHYSICAL PROPERTIES =====

Appearance :	Physical State	LIQUID
	Form	-
	Color	DARK RED
Specific Gravity (Relative Density)		0.88
Boiling Point		+150 C (+302 F)
Flash Point		+85 C (+185 F) (SETAFLASH CLOSED CUP)
pH full strength		-
pH diluted		-
Odor		LIGHT BLEND PETROLEU
Odor Threshold		-
Viscosity		195 CST at 25C
Vapor Density		>5 (AIR=1)
Vapor Pressure		<0.01 mmHg at 20C
Evaporation Rate		<0.01 (N-BUTYL ACETATE=1)
Freezing Point		-
Explosion Properties :	UEL	Not Determined
	LEL	Not Determined
Auto-ignition Temperature		Not Determined
Solubility		INSOLUBLE
Partition Coefficient		-

### ===== HAZARDOUS AND OTHER DISCLOSED INGREDIENTS =====

Percent Range	Exposure Limits - TWA ACGIH/OSHA(where est.)	CAS number	Chemical Name
>60	5/5 Ford= 1.0 mg/m3	8042-47-5	WHITE MINERAL OIL

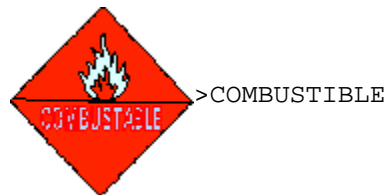
Exposure Limit Abbreviations

TWA=Time Weighted Average C=Ceiling  
 S=Short Term Exposure Sk=Skin  
 Sol=Soluble Compounds Fu=Fumes  
 Insol=Insoluble Compounds Du=Dust I=IARC Resp=Respirable

===== REGULATORY INFORMATION =====

If oil mist is generated, observe the OSHA exposure limit of 5 mg/m3. Ford Motor Company recommends an exposure limit of 1.0 mg/m3.

===== SIGNAL WORD =====



===== HEALTH HAZARD INFORMATION =====

=(A)===== HAZARDS =====

Exposure to oil mist/fume/vapor may cause respiratory tract irritation.  
 No skin irritation can be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation.  
 If ingested, this product may cause gastrointestinal irritation.  
 May cause eye irritation.

=(B)===== TARGET ORGANS AND MEDICAL CONDITIONS =====

Eyes

=(C)===== ACUTE TOXICITY INFORMATION =====

No information was provided by the supplier, nor is any information available based on selected RTECS data.

===== FIRE AND EXPLOSION INFORMATION =====

This product is combustible at high temperatures.  
 Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.  
 EXTINGUISHER INFORMATION: Dry chemical, foam, carbon dioxide, water fog.

Wear self-contained breathing apparatus.  
Irritating and/or toxic fumes may be emitted upon the product's decomposition.  
Decomposition of this product may yield oxides of nitrogen.

===== REACTIVITY DATA =====

This is a stable material.  
This product may react with oxidizing agents.  
This product may react with reducing agents.  
Hazardous polymerization will not occur.

===== PREVENTIVE MEASURES =====

=(A)===== SAFE HANDLING AND STORAGE =====

Keep the container tightly closed and in a cool, well-ventilated place.  
Avoid getting this material into contact with your skin and eyes.  
Ground all containers of this material.  
Eliminate all sources of ignition.  
Use this product with adequate ventilation.  
Keep this product from heat, sparks, or open flame.  
Do not reuse the empty container.  
Avoid prolonged exposure of the container to direct sunlight.

Dye may stain hands and clothing.

=(B)===== PROTECTIVE MEASURES =====

Use impervious gloves.  
Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.  
Wear chemical goggles; face shield (if splashing is possible).  
Respiratory protection; not normally required for ambient air concentrations not exceeding the Occupational Exposure Limit.  
Explosion-proof exhaust devices are required.

=(C)===== SPILLS, LEAKS AND DISPOSAL =====

Wear appropriate protective equipment and clothing during clean-up.  
Incinerate the material under controlled conditions in an approved incinerator.  
Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.  
Absorb the spilled material with an inert absorbent (nonflammable) material.  
Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material.  
Do not allow the spilled product to enter public drainage system or open water courses.  
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.

Wipe all dye spills immediately to prevent damage to paints, finishes and bumpers.

===== FIRST AID TREATMENT =====

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove contaminated clothing and wash before reuse.  
If the material is swallowed, get immediate medical attention or advice --  
Do not induce vomiting.

If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air.  
For skin contact, flush with large amounts of water. If irritation persists, get medical attention.  
Wash thoroughly after handling.

===== **NOTES TO PHYSICIANS** =====

This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

===== **Transport Information** =====

**U.S. Department of Transportation (DOT) 49 - CFR 172.101**

This product is not regulated as a dangerous good.

**Canadian Transportation of Dangerous Goods (T.D.G.) -TDGR**

This product is not regulated as a dangerous good.

**Secretary of Communication and Transportation (SCT)- NOM-002-SCT2/1994 (Mexico)**

This product is not regulated as a dangerous good.

**International and Domestic Air Transportation - ICAO & IATA Section 4.2**

This product is not regulated as a dangerous good.

**International Water Transportation - IMDG Code Amendment 31-02**

This product is not regulated as a dangerous good.

===== **PREPARATION INFORMATION** =====

Health and safety information has been evaluated by:

Occupational & Environmental Health Sciences Department  
Ford Motor Company  
Central Laboratory Building - Rm S-120  
15000 Century Drive  
Dearborn, Michigan 48120

For 24 hour emergency information dial 1-800-959-3673.

This is the last page of this MSDS.

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