



**Product Name: REGULAR RED ARTERIAL FLUID DYE**

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

REGULAR RED ARTERIAL FLUID DYE

**Synonyms**

REGULAR RED ARTERIAL FLUID DYE

**Product Use**

Arterial Fluid Dye.

**Restrictions on Use**

This product should only be used by Licensed Embalmers

**Details of the supplier of the safety data sheet**

Dr. G.H. Michel - Restor-Skin Company

PO Box 337

202 Sixth Street

East Brady, PA 16028

Phone: 1-800-635-3403

Emergency Phone #: 1-724-526-3565

E-mail: fourcogs16028@yahoo.com

**Product Code**

Product Size(s): Pints, 1/2-gallons and 1 gallon jugs

## Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Flammable Liquids - Category 3

Acute Toxicity - Oral - Category 4

Serious Eye Damage/Eye Irritation - Category 2A

Reproductive Toxicity - Category 1B

Specific Target Organ Toxicity - Single Exposure - Category 1

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Danger

**Hazard Statement(s)**

Flammable liquid and vapor.

Harmful if swallowed.

Causes serious eye irritation.

May damage fertility or the unborn child.

Causes damage to organs. (CNS, eyes)

**Precautionary Statement(s)**

**Prevention**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep container tightly closed.
- Keep away from heat/sparks/open flame/hot surfaces - No smoking.
- Ground/Bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Take precautionary measures against static discharge.
- Use only non-sparking tools.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.

**Response**

- In case of fire: Use appropriate media to extinguish.
- If exposed: Call a POISON CENTER or doctor/physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. **Storage**
- Store in a well-ventilated place. Keep cool.
- Store locked up. **Disposal**
- Dispose of contents/container in accordance with local/regional/national/international regulations. **Statement**

**of Unknown Toxicity**

<1% of the mixture consists of ingredient(s) of unknown acute toxicity.

**Other Hazards**

None known.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS		
CAS	Component Name	Percent
67-56-1	Methyl alcohol	5-20

**Component Related Regulatory Information**

The chemical identity and/or percentage of composition is being withheld as a trade secret.

<b>Section 4 - FIRST AID MEASURES</b>
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**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

**Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Call a POISON CENTER or doctor/physician if you feel unwell.

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

**Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.

**Most Important Symptoms/Effects****Acute**

Harmful if swallowed. Causes serious eye irritation, central nervous system damage, eye damage.

**Delayed**

May damage fertility or the unborn child.

**Indication of any immediate medical attention and special treatment needed.**

Treat symptomatically and supportively.

**Section 5 - FIRE FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media**

Carbon dioxide, dry chemical, alcohol-resistant foam, water spray.

**Unsuitable Extinguishing Media**

Do not use high-pressure water streams.

**Special Hazards Arising from the Chemical Flammable**

liquid and vapor.

**Hazardous Combustion Products Oxides of**

carbon,

**Fire Fighting Measures**

Move container from fire area if it can be done without risk. Do not point solid water stream directly into burning product to avoid spreading. Apply water from a protected location or from a safe distance. Cool containers with water spray until well after the fire is out. Vapors may travel to ignition source and flashback. Avoid inhalation of material or combustion by-products. Containers may rupture or explode if exposed to heat.

**Special Protective Equipment and Precautions for Firefighters**

Wear personal protective clothing and equipment such as self-contained breathing apparatus (SCBA) for protection against possible exposure.

**Section 6 - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures Wear**

personal protective clothing and equipment, see Section 8.

**Methods and Materials for Containment and Cleaning Up**

Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Wear fire/flame resistant/retardant clothing. Eliminate all sources of ignition. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if safe to do so. Prevent entry into waterways, sewers, basements, or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb with earth, sand or other non-combustible material and transfer to container. Dike far ahead of liquid spill for collection and later disposal. Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces.

**Section 7 - HANDLING AND STORAGE**

**Precautions for Safe Handling**

Keep away from heat/sparks/open flame/hot surfaces - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/clothing and eye/face protection. Use only outdoors or in a well-ventilated area. Do not breathe vapor or mist. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Conditions for Safe Storage, Including any Incompatibilities**

Store in a well-ventilated place. Keep cool.  
Store locked up.  
Keep away from incompatible materials. Keep away from heat.

**Incompatible Materials**

Strong acid.

**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

<b>Methyl alcohol</b>	<b>67-56-1</b>
ACGIH:	200 ppm TWA
	250 ppm STEL
	Skin – potential significant contribution to overall exposure by the cutaneous route
NIOSH:	200 ppm TWA ; 260 m/m3 TWA
	250 ppm STEL; 325 mg/m3 STEL
	Potential for dermal absorption
	6000 ppm IDLH
Europe:	200 ppm TWA ; 260 m/m3 TWA
	Possibly of significant uptake through the skin
OSHA (US):	200 ppm TWA ; 260 m/m3 TWA
Mexico:	200 ppm TWA [LMPE-PPT]; 260 mg/m3 TWA [LMPE-PPT]
	250 ppm STEL [LMPE-CT]; 310 mg/m3 STEM [LMPE-CT]
	Skin – potential for cutaneous absorption

**EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures.**

There are no biological limit values for any of this product's components.

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

**Methyl alcohol (67-56-1)**

15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

**Engineering Controls**

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

Wear chemical safety goggles with a face shield to protect against skin and eye contact when appropriate.

**Skin Protection**

Wear appropriate work clothing.

**Respiratory Protection**

Respiratory protection is required for not sufficiently ventilated working places and during the spraying processing.

**Glove Recommendations**

Wear appropriate chemical resistant gloves: neoprene, rubber gloves.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	dark red, liquid	<b>Physical State</b>	liquid
<b>Odor</b>	None	<b>Color</b>	dark, red
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	212 °F (approx.)
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	< 60°C (estimated)
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	Not available

<b>Water Solubility</b>	100 %	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	Not available	<b>Molecular Weight</b>	Not available

## Section 10 - STABILITY AND REACTIVITY

### Reactivity

No reactivity hazard is expected.

### Chemical Stability

Stable under normal temperatures and pressures.

### Possibility of Hazardous Reactions

Hazardous polymerization is not expected to occur.

### Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Keep away from incompatible materials.

### Incompatible Materials

Strong acid.

### Hazardous decomposition products Oxides

of carbon.

### Thermal decomposition products Oxides

of carbon.

## Section 11 - TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Inhalation

May cause slight irritation.

#### Skin Contact

May cause slight skin irritation. Prolonged skin contact with dry particulate may cause drying of the skin.

#### Eye Contact

Causes serious eye irritation.

#### Ingestion

May cause vomiting and nausea. Overexposure to methanol may result in acidosis and visual disturbances, headache, stomach pain, coordination disorder.

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

##### **Methyl alcohol (67-56-1)**

Inhalation LC50 Rat 22500 ppm 8 h

##### **Water (7732-18-5)**

Oral LD50 Rat >90 mL/kg

#### Immediate Effects

Harmful if swallowed. Causes serious eye irritation, central nervous system damage, eye damage.

#### Delayed Effects

May damage fertility or the unborn child.

#### Irritation/Corrosivity Data

Causes serious eye irritation.

#### Respiratory Sensitization

No information available.

#### Dermal Sensitization

No information available.

#### Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

**Germ Cell Mutagenicity**

No information available.

**Tumorigenic Data**

No information available.

**Reproductive Toxicity**

May damage fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure**

Central nervous system, eyes.

**Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

**Aspiration hazard**

No data available for this product.

**Medical Conditions Aggravated by Exposure**

Eye disorders, kidney disorders, skin disorders.

**Additional Data**

No additional information is available.

<b>Section 12 - ECOLOGICAL INFORMATION</b>
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**Component Analysis - Aquatic Toxicity**

Methyl alcohol	67-56-1
Fish:	LC50 96 h Pimephales promelas 28200 mg/L [flow-through ]; LC50 96 h Pimephales promelas >100 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flowthrough ]; LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static ]; LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through ]

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Mobility**

No information available for the product.

<b>Section 13 - DISPOSAL CONSIDERATIONS</b>
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**Disposal Methods**

Dispose in accordance with federal, state, provincial, and local regulations. The responsibility for proper waste disposal lies with the owner of the waste. Hazardous Waste Number(s): D001 (Ignitable).

<b>Section 14 - TRANSPORT INFORMATION</b>
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**US DOT Information:****Shipping Name:** FLAMMABLE LIQUIDS, N.O.S., (Contains: Methanol)**Hazard Class:** 3**UN/NA #:** UN1993**Packing Group:** III**Required Label(s):** 3**IATA Information:****Shipping Name:** FLAMMABLE LIQUID, N.O.S., (Contains: Methanol)**Hazard Class:** 3**UN#:** UN1993**Packing Group:** III**Required Label(s):** 3

**ICAO Information:****Shipping Name:** FLAMMABLE LIQUID, N.O.S., (Contains: Methanol)**Hazard Class:** 3**UN#:** UN1993**Packing Group:** III**Required Label(s):** 3**IMDG Information:****Shipping Name:** FLAMMABLE LIQUID, N.O.S., (Contains: Methanol)**Hazard Class:** 3**UN#:** UN1993**Packing Group:** III**Required Label(s):** 3**TDG Information:****Shipping Name:** FLAMMABLE LIQUID, N.O.S., (Contains: Methanol)**Hazard Class:** 3**UN#:** UN1993**Packing Group:** III**Required Label(s):** 3**Section 15 - REGULATORY INFORMATION****U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<b>Methyl alcohol</b>	<b>67-56-1</b>
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ; 2270 kg final RQ

**SARA Section 311/312 (40 CFR 370 Subparts B and C)****Acute Health:** Yes **Chronic Health:** Yes **Fire:** Yes **Reactivity:** No **U.S.****State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MIN	NJ	PA
Methyl alcohol	67-56-1	Yes	Yes	Yes	Yes	Yes

**The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

<b>Methyl alcohol</b>	<b>67-56-1</b>
Repro/Dev. Tox	developmental toxicity , 3/16/2012

**Canadian WHMIS Ingredient Disclosure List (IDL)**

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

<b>Methyl alcohol</b>	<b>67-56-1</b>	1 %
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**Component Analysis - Inventory****Methyl alcohol (67-56-1)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR-KECI/KECL	KR-TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

**Water (7732-18-5)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR-KECI/KECL	KR-TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes

**Section 16 - OTHER INFORMATION****NFPA Ratings**

Health: 2 Fire: 2 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**

New SDS: April 28, 2016 / SDS Update Rev 1: October 10, 2016 / SDS Update Rev 2: May 17, 2018

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory; KECL - Korea Existing Chemicals List; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorization, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act.; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

**Other Information Disclaimer:**

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.