Safety Data Sheet

VRF-2/VRF-4

Review / Revision: May 2014

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200.

1. IDENTIFICATION

Part No. & Description: VRF-2 and VRF-4 Red Layout Fluid

Product Class: Layout Fluids, Staining Colors Formula: 8705

Manufacturer: ITW Dykem Distributor: Goodson Tools & Supplies

805 East Old 56 Hwy 156 Galewski Drive Olathe, KS 66061-4914 Winona, MN 55987

Ph: 913-397-9889 or 800-443-9536 Ph: 507-452-1830 or 800-533-8010

Emergency Phone: 800-924-6804 (24 hours)

HMIS:

3.

Health: 2 Reactivity: 1 Flammability: 3 Personal Protection: B

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	CAS Number	OSHA	ACGIH-	Other Limits	% (Opt.)
		<u>PEL</u>	<u>TLV</u>	Recommended	
Ethanol	64-17-5	TWA 1000 ppm	TWA 1000 ppm	n No data	30-50
Butyl Acetate	123-86-4	TWA 150 ppm	TWA 150 ppm	No data	30-50
Butanol	71-36-3	TWA 50 ppm	TWA 50 ppm	No data	1-10
Nitrocellulose	9004-70-0	No data	No data	No data	1-10
n-Propyl Acetate	109-60-4	TWA 200 ppm	TWA 200 ppm	No data	1-10
Isopropanol	67-63-0	TWA 400 ppm	TWA 400 ppm	No data	1-10
Diacetone Alcohol	123-42-2	TWA 50 ppm	TWA 50 ppm	No data	1-5
C.I. Solvent Red 160	TSR#489909-	No data	No data	No data	1-5
	5028-P-CH				

HAZARDS IDENTIFICATION

Emergency Overview: Red thin viscosity liquid with sweet solvent odor. Warning! Flammable liquid and vapor. Keep away from heat sparks and flames. May cause eye, skin and respiratory tract irritation. If swallowed do not induce vomiting. Get immediate medical attention.

Potential Health Effects:

Eyes: Liquid is moderately irritating to the eyes.

Skin: Liquid is mildly irritating to the skin.

Ingestion: Ingestion of liquid may cause vomiting.

Inhalation: High concentration of vapors may produce irritation of the respiratory tract, headache, dizziness, and nausea.

CHRONIC HEALTH EFFECTS: Prolonged or repeated contact may cause skin sensitization or dermatitis. Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage. Intentional misuse by deliberately concentrating or inhaling this product may be harmful or fatal.

4. FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Skin: Flush skin with plenty of water. Remove contaminated clothing and shoes.

Ingestion: If large quantities of this material are swallowed, get immediate medical attention. Do not induce vomiting.

Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point (Method Used) 53°F

Flammable Limits: LEL: 1.40 UEL: 19.0

Extinguishing Media: Use water fog, foam, dry chemical or CO2. Use water spray to cool fire-exposed containers and to protect personnel.

Special Fire Fighting Procedures: Keep containers cool and vapors down with water spray. Prevent spill from entering drains, sewers, streams or other bodies of water. If run-off occurs, notify proper authorities. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel along ground, or be moved by ventilation and be ignited by ignition source.

6. ACCIDENTAL RELEASE MEASURES

Small spill: Absorb liquid with non-combustible floor absorbent and place in non-leaking container, seal properly and dispose of properly in compliance with federal, state and local regulations.

Large spill: Evacuate area of unprotected personnel. Eliminate all ignition sources. Stop spill at source if safe to do so. Handling equipment must be grounded to prevent sparking. Prevent spill from centering drains, sewers, streams or other bodies of water. If run-off occurs, notify proper authorities. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Dispose of properly in compliance with federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling: Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, sparks, flames, static electricity, or other sources of ignition. Many hot organic chemical vapors or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures below those published in the literature as "autoignition" or ignition temperatures. Ignition temperatures decrease with increasing vapor volume and vapor volume and vapor/air contact time, and are influenced by pressure changes. Ignition of organic chemical vapors may occur at typical elevated-temperature process conditions, especially in processes operating under vacuum if subjected to sudden ingress of air, or outside process equipment operating under elevated pressure if sudden escape of vapors or mists to the atmosphere occurs. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Storage: Keep away from heat, sparks and open flames. Keep out of reach of children. Keep container tightly sealed when not in use. Store in cool, well-ventilated place away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Type)-

Not usually necessary. Use with adequate ventilation. Use NIOSH/MSHA approved respirator if PELs or TLVs are exceeded.

Engineering Controls: Local Exhaust: Not usually needed Special: None Mechanical (General): Yes Other: None

Protective Gloves: Chemical resistant gloves if skin contact is possible. (consult your safety equipment supplier)

Eye Protection: Not normally required if used as intended. Wear chemical splash goggles in compliance with OSHA regulation if splashing is possible.

Other Protective Clothing or Equipment: Not usually necessary. For bulk material, if direct contact is possible, wear apron, boots, face shield, etc. as needed

Work/Hygienic Practices: Follow label instructions. Wash hands after use and before eating, drinking, smoking, using restrooms, etc.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure (mm-Hg @70°F): No data Melting Point: No data

Vapor Density(AIR=1): Greater than (1) Evaporation Rate (Butyl Acetate=1): Greater than (1)

Solubility in Water: Negligible pH: No data

Appearance and Odor: Red thin viscosity liquid with sweet solvent odor **VOC:** This product contains 785 grams per liter or 92.46% by weight VOC's

10. STABILITY AND REACTIVITY

Chemical Stability: Stable Conditions to avoid: None known

Incompatibility (Materials to Avoid): Strong oxidizing and reducing agents, strong alkalies and strong acids

Hazardous Decomposition or Byproducts: Carbon dioxide, carbon monoxide, smoke, soot and various organic oxida-

tion by-products.

Hazardous Polymerization: Will not occur Conditions to avoid: No data

11. TOXICOLOGICAL INFORMATION

	Oral LD50(rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Ethanol	7060 mg/kg	No data	20000 ppm/10H
Butyl Acetate	14 g/kg	No data	No data
Butanol	2500 mg/kg	slight	>8000 ppm/4H
Nitrocellulose	>5000 mg/kg	No data	No data

Nitrocellulose >5000 mg/kg No data No data Sopropanol 5045 mg/kg No data No data

Please refer to Section 3 for available information on potential health effects.

12. ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION (not meant to be all inclusive)

Domestic Highway (Containers < 1 Quart are ORM-D) Domestic Air Shipments: Varies

Proper Shipping Name: Paint Proper Shipping Name: No data

Hazard Class/Subsidiary Hazard: No data

UN/NA No.: UN1263

Packing Group: II

Label Required: Flammable Liquid (3)

UN/NA No.: No data

Packing Group: No data

Label Required: No data

15. **REGULATORY INFORMATION** (not meant to be all inclusive-selected regulations represented)

US FEDERAL REGULATIONS

TSCA: Components of this product are listed on the TSCA inventory.

Carcinogenicity: NTP: No IARC monographs: No OSHA Regulated: No

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Section 313:This product contains Butanol (71-36-3), and Solvent Red 160 as Chromium III compound CAS #7440-47-3 which is listed and may require reporting under SARA Title III Sec. 313 if used over the threshold reporting quantity. This information must be included in all SDSs that are copied and distributed for this material.

State Regulations

California Proposition 65: This product is not known to contain any material listed under California's Proposition 65.

16. OTHER INFORMATION

WARNING: The use of this product is beyond the control of the manufacturer & distributor; therefore, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The user must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials. The manufacturer & distributor warrant only that this product meets the specifications for such

product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER OF THIS PRODUCT. THE MANUFACTURER & DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE proper use OF THIS PRODUCT. The sole & exclusive remedy against the manufacturer & distributor for breach of warranty shall be reimbursement of the purchase price of the product in the event that a defective condition of the product shall be found to exist. No other remedy (including but not limited to incidental or consequential damages for injury to person or property or any other incidental or consequential loss) shall be available.