MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION:

Trade Name: RAY-TEK

Class: Co-Injection Chemical, Mixture
DOT/UN Hazard Classification: Flammable Liquid, NOS (Contains Methyl Alcohol/Formaldehyde), 3, UN 1993, PG III, Ltd. Qty.

Manufacturer: The Dodge Company, Inc.
9 Progress Road
Billerica, MA 01821-5731
(978) 600-2099

Hazard Rating:

FIRE	3	4 = Extreme
HEALTH	2	3 = High
REACTIVITY	0	2 = Moderate
SPECIAL	0	1 = Slight
		0 = No Hazard

II. HAZARDOUS INGREDIENTS:

Common Name	Chemical Family	CAS#	Wt %	Exposure Limit
Formaldehyde	Aldehyde	50-00-0	0.4	0.75 ppm (OSHA TWA); 0.3 ppm Ceiling (ACGIH) 2 ppm (OSHA STEL) Potential Cancer Hazard per NTP & OSHA Suspected Human Carcinogen per ACGIH Known carcinogen per IARC
Methanol or Methyl Alcohol	Alcohol	67-56-1	20	200 ppm (OSHA TWA and ACGIH TLV-TWA)* 250 ppm (OSHA STEL and ACGIH TLV-STEL)* *Includes Skin

III. PHYSICAL DATA:

Boiling Point (°F): 171-175 (77-79°C)
Vapor Pressure (mm Hg): Unknown
Vapor Density (Air=1): Greater than 1
Solubility in Water: Complete
Specific Gravity (H_20=1): 0.965-0.975
Percent Volatile (by volume): 98
Evaporation Rate (Bu Acetate=1): Partial greater than 1
pH: 9.5-10.2

Appearance and Odor: Clear, purple-green refractive color liquid, slightly pungent odor.

IV. FIRE AND EXPLOSION HAZARD DATA:

Flammable Limits in Air: 7%-73%*
*For solutions of 37% formaldehyde and 7-15% methanol.

Flash point: 92-96°F (33-36°C)

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus (SCBA) and complete personal protective equipment.

Unusual Fire and Explosion Hazards: Water streams may splash and spread flaming liquid.

V. REACTIVITY DATA:

Stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Exposure to cold may cause cloudiness and precipitation of polymers that will slowly re-dissolve upon gentle heating.

Incompatibility (materials to avoid): Avoid contact with strong oxidizers, acids, and alkali metals.

Hazardous Decomposition Products: May form formaldehyde gas, carbon dioxide, carbon monoxide, and various hydrocarbons.

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VI. HEALTH HAZARD DATA: Primary routes of entry: INHALATION, SKIN.

Hazard Identification:

INHALATION: Highly irritating to upper respiratory tract. May cause headache and inflammation to lining of nose, throat, and lungs, with bronchopneumonia and edema possible from extremely irritating exposure.

SKIN: Contact with liquid causes drying, cracking, and scaling. Prolonged and repeated contact causes a hardening or tanning effect. May cause contact allergic dermatitis.

EYE CONTACT: Exposure to high vapor concentrations or contact with liquid causes tearing and severe irritation. Contact with liquid causes severe burns.

INGESTION: Poisonous if swallowed. Causes severe irritation to mouth, throat, and stomach. Severe stomach pains will follow with possible loss of consciousness. Blindness or death may occur.

Emergency and First Aid Procedures:

INHALATION: Remove person from contaminated area. If breathing has stopped, give artificial respiration. If breathing is difficult, administer oxygen. Contact a physician.

SKIN: Remove contaminated clothing. Wash skin with large amounts of water. If irritation persists, contact a physician.

EYE CONTACT: Flush eyes with water for at least 15 minutes. Contact a physician immediately.

INGESTION: If the person is conscious, induce vomiting immediately by giving 2 glasses of water and pressing finger down the throat. Repeat until vomit is clear, and then give milk. Contact a physician immediately.

VII. SAFE HANDLING AND USE:

Spill Procedures: Eliminate ignition sources, and soak up the spill with noncombustible absorbent material. Neutralize with a diluted solution (<5%) of ammonia or sodium sulfite. Remove absorbent material to a chemical disposal area.

Waste Disposal: Improper disposal can cause damage to the environment. Dispose of all material in accordance with federal, state, and local regulations.

VIII. SPECIAL PROTECTION INFORMATION:

Respiratory Protection: If ventilation is inadequate, use NIOSH/MSHA approved respirators.

Protective Gloves: Rubber, neoprene, nitrile, or other waterproof gloves.

Eye Protection: Safety goggles for normal use.

Ventilation: Local exhaust is recommended to stay below exposure limits.

IX. SPECIAL PRECAUTIONS:

Handling and Storage: Avoid contact with eyes, skin, and clothing. Avoid prolonged breathing of vapor. Do not store for long periods of time below 35°F (2°C) or above 110°F (43°C). Keep containers tightly closed when not in use. Wash thoroughly after handling.