

HYDR
HYDRITE CHEMICAL CO.
RC LACQUER SOLVENT
RC-0040
03/06/96

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MATERIAL SAFETY DATA SHEET

06/14/96

PRODUCT NAME: RC LACQUER SOLVENT

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MANUFACTURED BY: HYDRITE CHEMICAL CO.
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MSDS#:HY961RC0040XX

PREPARED BY:NAO
03/06/96

SECTION I - PRODUCT INFORMATION

TRADE NAME: RC LACQUER SOLVENT
CHEMICAL NAME SYNONYMS: RC Lacquer Thinner

C.A.S. REGISTRY #: Mixture
CHEMICAL FAMILY: Oxygenated, Aliphatics & Aromatics

FORMULA: Hydrocarbon Mixture

DOT PROPER SHIPPING NAME: PAINT RELATED MATERIAL

D.O.T. HAZARD CLASS: 3 (FLAMMABLE LIQUID)

D.O.T. IDENTIFICATION #: UN1263 D.O.T. LABEL: FLAMMABLE

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	TLV LEVEL	PEL LEVEL
Methyl Ethyl Ketone	20-65%	200 ppm	200 ppm
Toluene	14-46%	50 ppm-skin	100 ppm
Methyl Isobutyl Ketone	0-20%	50 ppm	50 ppm
Xylene (Mixed Isomers)	0-20%	100 ppm	100 ppm
Ethylbenzene	0-7%	100 ppm	100 ppm
Acetone	0-14%	750 ppm	750 ppm
n-Butyl Acetate	0-7%	150 ppm	150 ppm
Ethyl Acetate	0-6%	400 ppm	400 ppm
n-Butyl Alcohol	0-5%	C50 ppm-skin	C50 ppm-skin
Isopropyl Alcohol	0-5%	400 ppm	400 ppm
Ethyl Alcohol	0-5%	1000 ppm	1000 ppm
n-Propyl Acetate	0-5%	200 ppm	200 ppm



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SECTION II - HAZARDOUS INGREDIENTS

Isopropyl Acetate	0-5%	250 ppm	250 ppm
Propylene Glycol Monomethyl Ether	0-4%	100 ppm	100 ppm
Propylene Glycol Monomethyl Ether Acetate	0-4%	Not Estab.	Not Estab.
Methanol	0-4%	200 ppm-skin	200 ppm-skin
Methyl Amyl Ketone	0-4%	50 ppm	100 ppm
Isobutyl Acetate	0-4%	150 ppm	150 ppm
2-Butoxyethanol	0-4%	25 ppm-skin	25 ppm-skin
Cyclohexanone	0-3%	25 ppm-skin	25 ppm-skin
Solvent Naphtha (Petroleum), Light Aliphatic	0-3%	* 300 ppm	* 300 ppm
Methylhexanes	0-3%	Not Estab.	Not Estab.
Isobutyl Alcohol	0-2%	50 ppm	50 ppm
n-Hexane	0-2%	50 ppm	50 ppm
n-Heptane	0-2%	400 ppm	400 ppm
* Mixed Chlorinateds	0-2%	* 25 ppm	* 25 ppm
Solvent Naphtha Medium Aliphatic	0-2%	* 100 ppm	* 100 ppm
Solvent Naphtha (Petroleum), Light Aromatic	0-5%	Not Estab.	Not Estab.
CONTAINS:			
1,2,4-Trimethylbenzene	0-3%	25 ppm	25 ppm

NOTE : C denotes Ceiling Limit. * Exposure Limit for VM&P Naphtha. * Exposure Limit for Stoddard Solvent. * Mixed Chlorinated Ingredients may include: Methylene Chloride; Perchloroethylene; 1,1,1-Trichloroethane; and Trichloroethylene. Exposure Limits given are those for the Chlorinated Ingredients having the lowest limit values. This product is a variable blend. The compounds listed have been identified by analysis of a typical blend of the product.

SECTION III - PHYSICAL DATA

BOILING POINT (DEG. F): > 100 SPECIFIC GRAVITY: ~0.82-0.84
FREEZING POINT (DEG.F): < 0 PERCENT VOLATILE
VAPOR PRESSURE (MM HG): Not Estab. BY VOLUME%: 100 %
VAPOR DENSITY (AIR=1) : > 1 EVAPORATION RATE(nBuAc): Not Estab.
SOLUBILITY IN WATER: Mod-Appreciable

APPEARANCE AND ODOR: Clear, colorless to faint yellow liquid.
Solvent odor.



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SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

EYE CONTACT: Liquid is severely irritating to the eyes. High vapor concentrations are also irritating.

SKIN CONTACT: May cause mild irritation to skin. Prolonged and repeated contact with skin can cause defatting and drying of the skin which may result in skin irritation and dermatitis. May be harmful if absorbed through skin.

INHALATION: Vapors may cause irritation to the nose, throat and respiratory tract. Inhalation overexposure can lead to central nervous system depression producing effects such as headaches, nausea, dizziness and loss of consciousness. Extreme exposures may cause other central nervous system effects including death. Repeated overexposure may cause liver and kidney damage.

INGESTION: Toxic by ingestion. May be harmful if swallowed. Liquid ingestion may result in vomiting; aspiration (breathing in of liquid into the lungs) must be avoided as liquid contact with the lungs can result in chemical pneumonitis and pulmonary edema/hemorrhage. May produce Central Nervous System depression. Large amounts may be fatal. May cause blindness.

OTHER: Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized. Preexisting eye, skin, liver, kidney, respiratory, and nervous system disorders may be aggravated by exposure to this product.
ROUTES OF EXPOSURE: Product can affect the body if it is inhaled, comes in contact with the eyes or skin, or is swallowed. It may enter the body through the skin. **TARGET ORGANS:** Eyes. Skin. Respiratory System. Central Nervous System. Liver. Kidneys. Gastrointestinal Tract. Blood. Development of cataracts has been reported in laboratory animals after prolonged repeated skin exposure to acetone. Reports of animal test studies on one or more



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SECTION V - HEALTH HAZARD DATA

of the individual ingredients have shown embryo/fetotoxic effects. Reports of animal test studies on one or more of the individual ingredients have shown hearing loss and possible effects to the liver, kidneys, lungs, spleen, heart, adrenals, blood, and reproductive system. The relevance of these effects to man is unknown.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open during this flushing with water. Call a physician immediately.

SKIN CONTACT : Flush area with water while removing contaminated clothing and shoes. Follow by washing with soap and water. Do not reuse clothing or shoes until cleaned. If irritation persists, get medical attention.

INGESTION: If conscious, give two glasses of water, then induce vomiting by touching back of throat with finger. Keep head below hips to prevent aspiration of liquid into lungs. CALL A PHYSICIAN immediately. NEVER induce vomiting or give anything by mouth to an unconscious victim.

INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. CALL A PHYSICIAN.

SECTION VI - REACTIVITY DATA

STABILITY: X STABLE UNSTABLE
CONDITIONS TO AVOID: Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames.



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SECTION VI - REACTIVITY DATA

INCOMPATIBILITY: Strong Oxidizing Agents. Acids. Alkalies.
Ammonia. Amines. Isocyanates. Halogens or halogen compounds.
Reducing Agents. Chlorinated compounds. Nitrates. Aldehydes.
Aluminum.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may
produce Carbon Monoxide, Carbon Dioxide, and unidentifiable organic
materials.

HAZARDOUS POLYMERIZATION: ___MAY OCCUR __X__WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

FLAMMABLE MATERIAL. Eliminate all sources of ignition.
Evacuate unprotected personnel from area. Maintain adequate
ventilation. Use proper Safety Equipment. Contain spill, place into
drums for proper disposal. Soak up residue with non-flammable
absorbent material. Place in non-leaking containers for immediate
disposal. Flush remaining area with water to remove trace residue
and dispose of properly. Avoid direct discharge to sewers and
surface waters. Notify authorities if entry occurs.

WASTE DISPOSAL METHOD: Observe all Local, State, and Federal
Regulations. Dispose of at approved Waste Treatment Facility.
Reclaim (recycle) solvent. DO NOT pressurize, cut, weld, braze,
solder, drill, grind or expose empty containers to heat, flame,
sparks or other sources of ignition.

SECTION VIII - SPECIAL PROTECTION INFORMATION

CONSULT SAFETY EQUIPMENT DISTRIBUTOR

RESPIRATORY PROTECTION: If recommended Exposure Limits are



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SECTION VIII - SPECIAL PROTECTION INFORMATION

exceeded wear: NIOSH-Approved organic respirator. NIOSH-Approved self-contained breathing apparatus. Do not exceed limits established by the respirator manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

VENTILATION: Maintain adequate ventilation. Do not use in closed or confined space. Keep levels below recommended Exposure Limits. To determine exposure levels, monitoring should be performed regularly. Use explosion-proof equipment. Avoid mist formation.

PROTECTIVE GLOVES: Chemical - resistant gloves.

EYE PROTECTION: Chemical Safety Goggles. Face shield. Do not wear contact lenses.

OTHER PROTECTIVE EQUIPMENT: Eye-wash station. Safety shower. Rubber apron. Chemical safety shoes. Protective clothing.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

FLAMMABLE LIQUID. Store in cool, well-ventilated area away from all sources of ignition and out of direct sunlight. Ground all equipment to prevent accumulation of static charge. Keep containers tightly closed. Store away from incompatible materials. Do not store in unlabeled or mislabeled containers.

OTHER PRECAUTIONS: Avoid contact with skin and eyes. Do not swallow. Use with adequate ventilation. Avoid prolonged or repeated breathing of vapors. Wash thoroughly after handling. Avoid dust or mist formation. Do not eat, drink, or smoke in work area.



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SECTION X - SUPPLEMENTAL HEALTH INFORMATION

CARCINOGEN CONTENT

% PPM	INGREDIENT	IARC	NTP	OSHA
0-2%	Methylene Chloride	P	P	N
0-2%	Perchloroethylene	P	P	N
0-2%	Trichloroethylene	P	N	N

NOTE : N: Not listed as a known or potential carcinogen in source's list. P: Potential Carcinogen - Substances "which may reasonably be anticipated to be carcinogens" are defined as those for which there is a limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals. Prolonged overexposure has caused toxic effects in the liver and kidneys of experimental animals and has caused cancer in certain laboratory animal tests. The International Agency for Research on Cancer (IARC) has concluded that there is sufficient evidence for the carcinogenicity of Methylene Chloride to experimental animals, and inadequate evidence for the carcinogenicity of Methylene Chloride to humans, resulting in a classification as a 2B animal carcinogen on the IARC list. The National Toxicology Program (NTP) has identified Methylene Chloride as an animal carcinogen. The American Conference of Governmental Hygienists (ACGIH) lists Methylene Chloride as an A2 - Suspected Human Carcinogen. Epidemiology studies of 751 humans chronically exposed to Methylene Chloride in the workplace of which 252 were exposed for a minimum of 20 years did not demonstrate any increase in deaths caused by cancer or cardiac problems. A second study of 2,227 workers confirmed these results. The American Conference of Governmental Hygienists (ACGIH) lists Perchloroethylene as an A3 - Animal Carcinogen. The National Toxicology Program (NTP) has identified Perchloroethylene as an animal carcinogen. The International Agency for Research on Cancer (IARC) has classified Perchloroethylene as probably carcinogenic to humans (Group 2A). Trichloroethylene is listed in Group 2A by IARC, but is not listed by NTP or OSHA. The American Conference of Governmental Hygienists (ACGIH) lists Trichloroethylene as an A5 - Not Suspected as a Human Carcinogen.

LD50 ORAL : No Data
LD50 SKIN : No Data
LC50 INHALATION : No Data

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SECTION X - SUPPLEMENTAL HEALTH INFORMATION

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The data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as a warranty or representation for which HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.