RAINBOW TECHNOLOGY
Specialists in Utility Chemicals & Safety Items

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Woman-Owned Business Enterprise - Founded 1971

Safety Data Sheet (SDS)

Printing date 09/18/2013 Revised On 09/18/2013

1 Identification of the substance and manufacturer

Trade name: Red Solvent-Based Marking Paint
Product Code: 4661
Manufacturer: Rainbow Technology Corporation
261 Cahaba Valley Parkway Pelham, AL 35124 USA
1.800.637.6047 www.rainbowtech.net
Contact: Larry Joe Steeley, Jr.
Emergency Telephone Number: CHEMTEL 1-800-255-3924, 813-248-0585 *if located outside the U.S.*

2 Composition/information on ingredients

Chemical characterization: Mixtures
Chemical Description: This product is a mixture of the substances listed below with nonhazardous additions.

Dangerous components:

1317-65-3	Calcium Carbonate	H335	21.15%
74-98-6	propane	H220; H280	17.01%
64742-89-8	Solvent naphtha (petroleum), light aliphatic	H225; H304	16.76%
106-97-8	n-butane	H220; H280	9.99%
142-82-5	heptane	H225; H304; H400; H410; H315; H336	7.88%
64742-47-8	Mineral Spirits	H226; H304	6.58%
67-63-0	isopropyl alcohol	H225; H319; H336	2.13%
1330-20-7	xylene (mix)	H226; H312; H332; H315	1.32%

3 Hazard(s) identification

Label elements
GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard pictograms GHS02, GHS07, GHS09
Signal word Danger
Hazard statements
Extremely flammable aerosol.
May be harmful if inhaled.
May cause respiratory irritation.
Toxic to aquatic life with long lasting effects.
Precautionary statements
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Pressurized container: Do not pierce or burn, even after use.
Do not spray on an open flame or other ignition source.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Classification system:
HMIS-ratings (0 - 4):
Health- 1
Flammability- 4
Physical Hazard-3

4 First-aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Remove contaminated clothing. Wash exposed area with soap and water.
After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing: Contact physician or poison control center.

5 Fire-fighting measures

Extinguishing agents: CO2, sand, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards: No further relevant information available.
Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
Environmental precautions: Do not allow product to reach sewage systems or ground water.

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Methods and material for containment and cleaning up: Ensure adequate ventilation.

7 Handling and storage

Fire/explosion protection: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Do not smoke. Protect from electrostatic discharges.

Storage requirements: Observe pressurized container storage regulations. Consult with your local authorities.

8 Exposure controls/personal protection

Components with limit values that require monitoring at the workplace:

74-98-6 propane

PEL (USA)	Long-term value: 1800 mg/m³, 1000 ppm
REL (USA)	Long-term value: 1800 mg/m³, 1000 ppm
TLV (USA)	refer to Appendix F: minimal oxygen content

106-97-8 n-butane

REL (USA)	Long-term value: 1900 mg/m³, 800 ppm
TLV (USA)	Short-term value: 2370 mg/m³, 1000 ppm

142-82-5 heptane

PEL (USA)	Long-term value: 2000 mg/m³, 500 ppm
REL (USA)	Short-term value: C 1800* mg/m³, C 440* ppm Long-term value: 350 mg/m³, 85 ppm *15-min
TLV (USA)	Short-term value: 2050 mg/m³, 500 ppm Long-term value: 1640 mg/m³, 400 ppm

67-63-0 isopropyl alcohol

PEL (USA)	Long-term value: 980 mg/m³, 400 ppm
REL (USA)	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV (USA)	Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI

1330-20-7 xylene (mix)

PEL (USA)	Long-term value: 435 mg/m³, 100 ppm
REL (USA)	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
TLV (USA)	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI

Ingredients with biological limit values:

67-63-0 isopropyl alcohol

BEI (USA)	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

1330-20-7 xylene (mix)

BEI (USA)	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

Hygienic protection: Keep away from foodstuffs and animal feed. Wash hands after use.

Breathing equipment: A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical hygeine.

Hand protection: Protective gloves
Protective gloves. The glove material has to be impermeable and resistant to the substance. No glove recommendation can be given.

Eye protection: Tightly sealed goggles

9 Physical and chemical properties

General Information:

Odor: Aromatic

Odor threshold: Not determined.

pH-value: Not determined.

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Boiling point:	-44 °C (-47 °F)
Flash point:	-19 °C (-2 °F)
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.
Lower Explosion Limit:	1.7 Vol %
Upper Explosion Limit:	10.9 Vol %
Specific Gravity:	Between 0.77 and 0.85 (Water equals 1.00)
Vapour density	Not determined.
Evaporation rate	Not applicable.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
VOC content:	522.7 g/l / 4.36 lb/gl
VOC content (less exempt solvents):	62.8 %
MIR Value:	0.77
Solids content:	37.1 %
Other information	No further relevant information available.

10 Stability and reactivity

Conditions to avoid:	Do not allow the can to exceed 120 degrees Fahrenheit. Stable at normal temperatures.
Incompatible materials:	No further relevant information available.
Hazardous decomposition:	No dangerous decomposition products known.

11 Toxicological information

Skin effects:	No irritant effect.
Eye effects:	No irritating effect.
Sensitization:	No sensitizing effects known.

12 Ecological information

Aquatic toxicity:	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.

13 Disposal considerations

Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.

Waste treatment methods

Recommendation: Completely empty cans should be recycled.

14 Transport information

DOT	N/A
	UN1950
ADR	UN1950
UN proper shipping name	
DOT	Consumer Commodity ORM-D
	Aerosols, flammable
ADR	1950 Aerosols, ENVIRONMENTALLY HAZARDOUS
Transport hazard class(es)	
ADR	
Class	2 5F Gases
Label	2.1
Environmental hazards:	Product contains environmentally hazardous substances: heptane
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Gases
EMS Number:	F-D,S-U
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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IATA
Packaging Group: --
UN "Model Regulation": UN1950, Aerosols, ENVIRONMENTALLY HAZARDOUS, 2.1

15 Regulatory information

SARA Section 355 (extremely hazardous substances):	
None of the ingredients in this product are listed.	

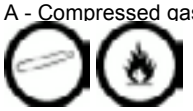
SARA Section 313 (Specific toxic chemical listings):	
67-63-0	isopropyl alcohol
1330-20-7	xylene (mix)

CPSC: This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

California Proposition 65 chemicals known to cause cancer:	
100-41-4	ethyl benzene

California Proposition 65 chemicals know to cause developmental toxicity: 67-56-1 Methanol

WHMIS Symbols for Canada: A - Compressed gas



EPA:		
142-82-5	heptane	D
1330-20-7	xylene (mix)	I

ACGIH:		
67-63-0	isopropyl alcohol	A4
1330-20-7	xylene (mix)	A4

NIOSH:
The following substances are regulated in the United States with reference to occupational exposure limits:

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

16 Other information

Contact: Regulatory Affairs

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
ISO: International Organization for Standardization
PNEC: Predicted No-Effect Concentration (REACH)