



**RAINBOW TECHNOLOGY**  
Specialists in Utility Chemicals & Safety Items

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Woman-Owned Business Enterprise - Founded 1971

# Safety Data Sheet (SDS)

## SECTION I - IDENTIFICATION

**PRODUCT NAME:** Rainbow Precision & Contact Cleaner  
**PRODUCT NUMBER:** 41030  
**PRODUCT USE:** Electronic Cleaning Agent  
**COMPANY NAME:** Rainbow Technology Corporation  
**COMPANY ADDRESS:** 261 Cahaba Valley Parkway, Pelham, Alabama 35124

**COMPANY PHONE:** 1-800-637-6047;  
Contact Larry Joe Steeley, Jr.  
**EMERGENCY PHONE: Chem-Tel 800-255-3924**  
**Revised Date:** August 29, 2017  
**Replaces SDS Dated:** October 21, 2015

## SECTION II - HAZARDS IDENTIFICATION

**CLASSIFICATION:** Liquefied Gas

Eye Irritant: Category 2A

Specific Target Organ Toxicity (Repeated Exposure): Category 1

**HAZARD STATEMENT(S): DANGER:** Contains gas under pressure; may explode if heated. Causes damage to organs.

This product contains the following percentage of chemicals of unknown toxicity: 0%

**PRECAUTIONARY STATEMENTS:** Keep away from heat, sparks, open flames, or hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized Container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Do not breathe fumes, vapors, and spray. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. If exposed: Call poison center or doctor. Dispose of contents and container in accordance with local, state, and national regulations.

**SYMBOL:**



**HAZARDS NOT OTHERWISE CLASSIFIED:** N/A

## SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
Methanol	67-56-1	1-5%
1,1,1,2-Tetrafluoroethane	811-97-2	10-30%

## SECTION IV - FIRST AID MEASURES

**EYES:** Immediately flush with water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.

**INGESTION:** If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice or attention.

**INHALATION:** Move to fresh air. If not breathing, administer artificial respiration.

**SKIN:** If on skin: Wash with plenty of water. If skin irritation occurs: get medical attention.

**ACUTE HEALTH HAZARDS:** Eyes: redness, tearing, blurred vision

Skin: defatting and dermatitis

Inhalation: Anesthetic, irritation, Central Nervous System depression

Oral: abdominal irritation, nausea, vomiting, and diarrhea

**CHRONIC HEALTH HAZARDS:** May cause damage to the following: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS).

**NOTE TO PHYSICIAN:** There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

## SECTION V - FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, foam, and water spray or fog.

**UNSUITABLE EXTINGUISHING MEDIA:** N/A

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**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contents under pressure. Exposure to temperatures above 120°F may cause bursting.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, hydrogen halides, bromides

## SECTION VI – ACCIDENTAL RELEASE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT:** Refer to section VIII for proper Personal Protective Equipment.

**SPILL:** Absorb spill with non-combustible material such as vermiculite, sand or earth.

**WASTE DISPOSAL:** Dispose of in accordance with local, state and federal regulations.

**RCRA STATUS:** Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

## SECTION VII – HANDLING AND STORAGE

**HANDLING AND STORAGE:** Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use.

**OTHER PRECAUTIONS:** Keep out of the reach of children.

**INCOMPATIBILITY:** Some plastics, strong mineral acids and strong oxidizers.

## SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Methanol	200 ppm	250 ppm
1,1,1,2-Tetrafluoroethane	Not Established	Not Established

**ENGINEERING CONTROLS / VENTILATION:** Use only in well ventilated areas.

**RESPIRATORY PROTECTION:** Wear NIOSH/MSHA approved organic vapor respiratory protection if used in confined, poorly ventilated areas.

**PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses and chemical resistant gloves

**ADDITIONAL MEASURES:** Wash hands thoroughly after handling.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear, Colorless Spray

**ODOR:** Strong solvent odor

**ODOR THRESHOLD:** N/D

**BOILING POINT:** N/D

**FREEZING POINT:** N/D

**FLAMMABILITY:** Not considered a flammable aerosol or an extremely flammable aerosol by OSHA (29CFR 1910.1200)

**FLASH POINT:** N/D

**AUTOIGNITION TEMPERATURE:** N/D

**LOWER FLAMMABILITY LIMIT:** N/D

**UPPER FLAMMABILITY LIMIT:** N/D

**VAPOR PRESSURE (mm Hg):** 110.8 @ 77°F (25°C)

**VAPOR DENSITY (AIR=1):** > 1 @ 77°F (25°C)

**EVAPORATION RATE:** 4.7 (Fast)

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.44 @ 77°F (25°C)

**pH:** N/A

**SOLUBILITY IN WATER:** Non-soluble

**PARTITION COEFFICIENT: n-OCTANOL/WATER (K<sub>ow</sub>):** N/D

**VOLATILE ORGANIC COMPOUNDS (VOC):** 27.7%

**DECOMPOSITION TEMPERATURE:** N/D

**VISCOSITY:** N/D

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## SECTION X – STABILITY AND REACTIVITY DATA

**REACTIVITY:** Chemically active metals and bases.

**CHEMICAL STABILITY:** Stable

**CONDITIONS TO AVOID:** Excessive heat. Prolonged contact with free water will result in diminished stabilizer and corrosion.

**INCOMPATIBILITY:** Some plastics, strong mineral acids and strong oxidizers.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** Oxides of carbon, hydrogen halides, bromides

**POSSIBLE HAZARDOUS REACTIONS:** None Known

## SECTION XI – TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** **Methanol** (67-56-1) Oral LD<sub>50</sub> (Rat) 1187-2769 mg/kg; Inhalation LC<sub>50</sub> (Rat, 4h) 128.2 mg/l

**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation, Skin

**EYES:** Causes irritation.

**INGESTION:** Nausea and gastric discomfort.

**INHALATION:** Harmful if inhaled. Causes irritation to the respiratory tract, dizziness, headaches and nausea. May cause liver damage.

**SKIN:** Causes mild irritation, dryness, localize defatting.

**MEDICAL CONDITION AGGRAVATED:** N/A

**ACUTE HEALTH HAZARDS:** Eyes: redness, tearing, blurred vision

Skin: defatting and dermatitis

Inhalation: Anesthetic, irritation, Central Nervous System depression

Oral: abdominal irritation, nausea, vomiting, and diarrhea

**CHRONIC HEALTH HAZARDS:** May cause damage to the following: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS).

**CARCINOGENICITY:** OSHA: No ACGIH: No NTP: No IARC: No OTHER: No

## SECTION XII – ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Not Established

**BIODEGRADABILITY:** Component or components of this product are not biodegradable.

**BIOACCUMULATION:** This product is not expected to bioaccumulate.

**SOIL MOBILITY:** This product is mobile in soil.

**OTHER ECOLOGICAL HAZARDS:** This material is toxic to aquatic life.

## SECTION XIII – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Dispose of in accordance with local, state and federal regulations.

**RCRA STATUS:** Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

## SECTION XIV - TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION:** 2.2

**UN/NA NUMBER:** UN 1950

**PACKAGING GROUP:** N/A

### AIR SHIPMENT

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION:** 2.2

**UN/NA NUMBER:** UN 1950

**PACKAGING GROUP:** N/A

### SHIPPING BY WATER:

**VESSEL (IMO/IMDG)**

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

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**HAZARD CLASS/DIVISION:** 2.2  
**UN/NA NUMBER:** UN 1950  
**PACKAGING GROUP:** N/A  
**ENVIRONMENTAL HAZARDS WATER:** N/A

## SECTION XV - REGULATORY INFORMATION

**TSCA STATUS:** All Chemicals are listed or exempt.  
**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None  
**SARA 311/312 HAZARD CATEGORIES:** Immediate  
**SARA 313 REPORTABLE INGREDIENTS:** None  
**STATE REGULATIONS:** This product contains a chemical known to the state of California to cause birth defects or other reproductive harm: **Methanol (67-56-1)**  
**INTERNATIONAL REGULATIONS:** All components are listed or exempted.

<b>NFPA HEALTH:</b>	2	<b>HMIS HEALTH:</b>	2
<b>NFPA FLAMMABILITY:</b>	1	<b>HMIS FLAMMABILITY:</b>	1
<b>NFPA REACTIVITY:</b>	0	<b>HMIS REACTIVITY:</b>	0
<b>NFPA OTHER:</b>	None	<b>HMIS PROTECTION:</b>	B

## SECTION XVI - ADDITIONAL INFORMATION

N/A = Not Applicable; N/D = Not Determined

**DISCLAIMER:** To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.