

## Safety Data Sheet

Printing date 03/17/2016

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**1 Identification of the substance and manufacturer**

**Trade name:** Gray-Green  
**Product code:** 4650  
**Manufacturer/Supplier:** Rainbow Technology Corporation  
 261 Cahaba Valley Parkway  
 Pelham, AL 35124  
 Phone: 800-637-6047 Contact: Larry Joe Steeley, Jr.  
 www.rainbowtech.net  
**Emergency telephone number:** CHEMTEL 1-800-255-3924 or 813-248-0585 \*if located outside the U.S.\*

**2 Hazard(s) identification****Classification of the substance or mixture**

Flam. Aerosol 1 H222 Extremely flammable aerosol.  
 Press. Gas H280 Contains gas under pressure; may explode if heated.  
 Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Irrit. 2A H319 Causes serious eye irritation.  
 Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
 STOT SE 3 H336 May cause drowsiness or dizziness.  
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

**GHS Hazard pictograms**

GHS02 GHS04 GHS07 GHS08

**Signal word****Hazard statements**

Danger  
 Extremely flammable aerosol.  
 Contains gas under pressure; may explode if heated.  
 Causes skin irritation.  
 Causes serious eye irritation.  
 Suspected of damaging fertility or the unborn child.  
 May cause drowsiness or dizziness.

**Precautionary statements**

May cause damage to organs through prolonged or repeated exposure.  
 Obtain special instructions before use.  
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 Do not spray on an open flame or other ignition source.  
 Do not pierce or burn, even after use.  
 Wash hands thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Do not handle until all safety precautions have been read and understood.  
 Wear protective gloves.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Call a POISON CENTER/doctor if you feel unwell.  
 If skin irritation occurs: Get medical advice/attention.  
 IF ON SKIN: Wash with plenty of water.  
 If eye irritation persists: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.  
 Store locked up.  
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 Protect from sunlight. Store in a well-ventilated place.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

**3 Composition/information on ingredients****Chemical characterization: Mixtures****Chemical Description:**

This product is a mixture of the substances listed below with nonhazardous additions.

**Dangerous components:**

67-64-1	Acetone	36.83%
74-98-6	propane	15.73%
108-88-3	Toluene	11.56%
106-97-8	n-butane	9.24%
13463-67-7	titanium dioxide	3.93%
108-10-1	methyl isobutyl ketone	2.3%
107-87-9	Methyl Propyl Ketone	1.93%
2807-30-9	Glycol Ether EP	1.51%
110-19-0	isobutyl acetate	1.3%

**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. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse mouth with water. Do not induce vomiting.

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**Most important symptoms and effects:**

Dizziness

**Indication of any immediate medical attention needed:**

No further relevant information available.

**5 Fire-fighting measures****Extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.**Special hazards:**

Can form explosive gas-air mixtures.

**Protective equipment for firefighters:**

A respiratory protective device may be necessary.

**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Use respiratory protective device against the effects of fumes/dust/aerosol.

**Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

**7 Handling and storage****Precautions for safe handling**

Use only in well ventilated areas.

**Storage requirements:**

Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up.

**8 Exposure controls/personal protection****Components with limit values that require monitoring at the workplace:****67-64-1 Acetone**PEL (USA) Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppmREL (USA) Long-term value: 590 mg/m<sup>3</sup>, 250 ppmTLV (USA) Short-term value: 1187 mg/m<sup>3</sup>, 500 ppmLong-term value: 594 mg/m<sup>3</sup>, 250 ppm

BEI

**74-98-6 propane**PEL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppmREL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm

TLV (USA) refer to Appendix F in TLVs and BEIs book

**108-88-3 Toluene**PEL (USA) Long-term value: 200 ppm  
Ceiling limit value: 300; 500\* ppm  
\*10-min peak per 8-hr shiftREL (USA) Short-term value: 560 mg/m<sup>3</sup>, 150 ppmLong-term value: 375 mg/m<sup>3</sup>, 100 ppmTLV (USA) Long-term value: 75 mg/m<sup>3</sup>, 20 ppm

BEI

**106-97-8 n-butane**REL (USA) Long-term value: 1900 mg/m<sup>3</sup>, 800 ppmTLV (USA) Short-term value: 2370 mg/m<sup>3</sup>, 1000 ppm**108-10-1 methyl isobutyl ketone**PEL (USA) Long-term value: 410 mg/m<sup>3</sup>, 100 ppmREL (USA) Short-term value: 300 mg/m<sup>3</sup>, 75 ppmLong-term value: 205 mg/m<sup>3</sup>, 50 ppmTLV (USA) Short-term value: 307 mg/m<sup>3</sup>, 75 ppmLong-term value: 82 mg/m<sup>3</sup>, 20 ppm

BEI

**107-87-9 Methyl Propyl Ketone**PEL (USA) Long-term value: 700 mg/m<sup>3</sup>, 200 ppmREL (USA) Long-term value: 530 mg/m<sup>3</sup>, 150 ppmTLV (USA) Short-term value: 529 mg/m<sup>3</sup>, 150 ppm**110-19-0 isobutyl acetate**PEL (USA) Long-term value: 700 mg/m<sup>3</sup>, 150 ppmREL (USA) Long-term value: 700 mg/m<sup>3</sup>, 150 ppmTLV (USA) Short-term value: NIC-712 mg/m<sup>3</sup>, NIC-150 ppmLong-term value: (713) NIC-238 mg/m<sup>3</sup>, (150) NIC-50 ppm**Ingredients with biological limit values:****67-64-1 Acetone**

BEI (USA) 50 mg/L

Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

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**108-88-3 Toluene**

BEI (USA)	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

**108-10-1 methyl isobutyl ketone**

BEI (USA)	1 mg/L Medium: urine Time: end of shift Parameter: MIBK
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<b>Hygienic protection:</b>	Immediately remove all soiled and contaminated clothing. Wash hands after use. Avoid contact with the eyes and skin. Do not eat or drink while working.
<b>Breathing equipment:</b>	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 hygiene.
<b>Hand protection:</b>	Nitrile gloves. Protective gloves. The glove material must be impermeable and resistant to the substance.
<b>Eye protection:</b>	Tightly sealed goggles

**9 Physical and chemical properties**

<b>Appearance:</b>	Aerosol.
<b>Odor threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.
<b>Melting point/Melting range</b>	Undetermined.
<b>Boiling point:</b>	-44 °C (-47 °F)
<b>Flash point:</b>	-19 °C (-2 °F)
<b>Flammability (solid, gas):</b>	Extremely flammable.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	In use, may form flammable/explosive vapour-air mixture.
<b>Lower Explosion Limit:</b>	1.7 Vol %
<b>Upper Explosion Limit:</b>	10.9 Vol %
<b>Vapor pressure:</b>	Not determined.
<b>Relative Density:</b>	Between 0.77 and 0.85 (Water equals 1.00)
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not applicable.
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Solubility:</b>	Not determined.
<b>Viscosity:</b>	Not determined.
<b>VOC content:</b>	539.3 g/l / 4.50 lb/gl
<b>VOC content (less exempt solvents):</b>	44.8 %
<b>MIR Value:</b>	1.07
<b>Solids content:</b>	18.2 %

**10 Stability and reactivity**

<b>Reactivity:</b>	Stable at normal temperatures.
<b>Conditions to avoid:</b>	Do not allow can to exceed 120 degrees Fahrenheit. Do not warehouse in subfreezing temperatures.
<b>Chemical stability:</b>	Not fully evaluated.
<b>Possibility of hazardous reactions:</b>	No dangerous reactions known.
<b>Incompatible materials:</b>	No further relevant information available.
<b>Hazardous decomposition:</b>	No dangerous decomposition products known.

**11 Toxicological information****LD/LC50 values that are relevant for classification:****106-97-8 n-butane**

Inhalative LC50/4 h 658 mg/l (rat)

**13463-67-7 titanium dioxide**

Oral LD50 &gt;20000 mg/kg (rat)

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Dermal	LD50	>10000 mg/kg (rbt)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

**108-10-1 methyl isobutyl ketone**

Oral	LD50	2100 mg/kg (rat)
Dermal	LD50	16000 mg/kg (rab)
Inhalative	LC50/4 h	8.3-16.6 mg/l (rat)

**110-19-0 isobutyl acetate**

Oral	LD50	4763 mg/kg (rbt)
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**Information on toxicological effects:** No data available.  
**Skin effects:** No irritant effect.  
**Eye effects:** Irritating effect.  
**Sensitization:** No sensitizing effects known.

**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

108-88-3	Toluene	3
13463-67-7	titanium dioxide	2B
108-10-1	methyl isobutyl ketone	2B

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**12 Ecological information**

**Aquatic toxicity:** Hazardous for water, do not empty into drains.  
**Persistence and degradability:** The product is degradable after prolonged exposure to natural weathering processes.  
**Bioaccumulative potential:** No further relevant information available.  
**Mobility in soil:** No further relevant information available.  
**Other adverse effects:** 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.  
**Recommendation:** Completely empty cans should be recycled.

**14 Transport information**

**UN-Number** UN1950  
**DOT** N/A  
**DOT** Consumer Commodity ORM-D  
 Aerosols, flammable  
**ADR** 1950 Aerosols  
**Transport hazard class(es):**  
**Class** 2.1  
**Marine pollutant:** No  
**Special precautions for user:** Warning: Gases  
**EMS Number:** F-D,S-U  
**Quantity limitations** On passenger aircraft/rail: 75 kg  
 On cargo aircraft only: 150 kg

**ADR**  
**Excepted quantities (EQ)** Code: E0  
 Not permitted as Excepted Quantity

**IMDG**

**Limited quantities (LQ)** 1L  
**Excepted quantities (EQ)** Code: E0  
 Not permitted as Excepted Quantity

**Packaging Group:** --  
**UN "Model Regulation":** UN1950, Aerosols, 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):**

108-88-3	Toluene
108-10-1	methyl isobutyl ketone

**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:**

13463-67-7	titanium dioxide
108-10-1	methyl isobutyl ketone
100-41-4	ethyl benzene
1333-86-4	Carbon black

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California Proposition 65 chemicals  
known to cause developmental  
toxicity:  
CANADIAN ENVIRONMENTAL  
PROTECTION ACT:  
WHMIS Symbols for Canada:

108-88-3 Toluene

All hazardous ingredients for this product appear on the Canadian Domestic Substance List.  
A - Compressed gas  
D2A - Very toxic material causing other toxic effects



## EPA:

67-64-1	Acetone	I
108-88-3	Toluene	II
108-10-1	methyl isobutyl ketone	I
110-19-0	isobutyl acetate	D

## 16 Other information

Contact: Larry Joe Steeley, Jr. 800-637-6047  
Date of preparation / last revision 03/17/2016 / -