

## Safety Data Sheet

Printing date 03/17/2016

Revised On 03/17/2016

**1 Identification of the substance and manufacturer**

**Trade name:** Hi-Viz Yellow  
**Product code:** 4662  
**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.  
 Repr. 1B H360 May damage fertility or the unborn child.  
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

**GHS Hazard pictograms**

GHS02 GHS04 GHS07 GHS08

**Signal word:** Danger**Hazard-determining components of labeling:****Hazard statements**

Toluene  
 Extremely flammable aerosol.  
 Contains gas under pressure; may explode if heated.  
 Causes skin irritation.  
 May damage fertility or the unborn child.  
 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.  
 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 skin irritation occurs: Get medical advice/attention.  
 IF ON SKIN: Wash with plenty of water.  
 Get medical advice/attention if you feel unwell.  
 IF exposed or concerned: Get medical advice/attention.  
 Specific treatment (see on this label).  
 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.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Physical dangers:****Effects of chronic overexposure:**

May cause permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart, and blood. Intentional misuse by deliberately inhaling the contents may be harmful or fatal.

**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:**

64742-89-8	VM&P Naphtha	17.21%
74-98-6	propane	15.74%
1317-65-3	Calcium Carbonate	14.89%
108-88-3	Toluene	9.84%
106-97-8	n-butane	9.25%
142-82-5	heptane	4.73%
64742-47-8	Mineral Spirits	4.66%
13463-67-7	titanium dioxide	2.87%
1330-20-7	xylene (mix)	1.29%

**4 First-aid measures****Description of 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:**

Rinse mouth with water. Do not induce vomiting.

**Information for doctor:****Most important symptoms and effects:**

Dizziness

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

No further relevant information available.

**5 Fire-fighting measures****Extinguishing media****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.

**Additional information**

Cool endangered receptacles with water spray.

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

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

**Environmental precautions:**

Do not allow product to reach sewage systems or ground water.

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

Absorb liquid components with liquid-binding material.

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

Use only in well ventilated areas.

**Fire/explosion protection:**

Do not spray on a naked flame or any incandescent material. Do not smoke. Protect from electrostatic discharges.

**Conditions for safe storage:****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:****74-98-6 propane**PEL Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppmREL Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm

TLV refer to Appendix F in TLVs and BEIs book

**108-88-3 Toluene**PEL Long-term value: 200 ppm  
Ceiling limit value: 300; 500\* ppm  
\*10-min peak per 8-hr shiftREL Short-term value: 560 mg/m<sup>3</sup>, 150 ppmLong-term value: 375 mg/m<sup>3</sup>, 100 ppmTLV Long-term value: 75 mg/m<sup>3</sup>, 20 ppm  
BEI**106-97-8 n-butane**REL Long-term value: 1900 mg/m<sup>3</sup>, 800 ppmTLV Short-term value: 2370 mg/m<sup>3</sup>, 1000 ppm**142-82-5 heptane**PEL Long-term value: 2000 mg/m<sup>3</sup>, 500 ppmREL Long-term value: 350 mg/m<sup>3</sup>, 85 ppm  
Ceiling limit value: 1800\* mg/m<sup>3</sup>, 440\* ppm  
\*15-minTLV Short-term value: 2050 mg/m<sup>3</sup>, 500 ppm  
Long-term value: 1640 mg/m<sup>3</sup>, 400 ppm**1330-20-7 xylene (mix)**PEL Long-term value: 435 mg/m<sup>3</sup>, 100 ppmREL Short-term value: 655 mg/m<sup>3</sup>, 150 ppmLong-term value: 435 mg/m<sup>3</sup>, 100 ppmTLV Short-term value: 651 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 434 mg/m<sup>3</sup>, 100 ppm  
BEI**872-50-4 N-methyl-2-pyrrolidone**WEEL Long-term value: 10 ppm  
Skin

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**Ingredients with biological limit values:****108-88-3 Toluene**

BEI 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)

**1330-20-7 xylene (mix)**

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

**872-50-4 N-methyl-2-pyrrolidone**

BEI 100 mg/L  
Medium: urine  
Time: end of shift  
Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone

**Exposure controls****Hygienic protection:**

Wash hands after use.

Do not eat or drink while working.

**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 hygiene.

**Hand protection:**

Nitrile gloves.

Protective gloves. The glove material must be impermeable and resistant to the substance.

**Eye protection:**

Tightly sealed goggles

**9 Physical and chemical properties****General Information:**

**Appearance:** Aerosol.  
**Odor threshold:** Not determined.

**pH-value:** Not determined.**Melting point/Melting range:** Undetermined.**Boiling point:** -44 °C (-47 °F)**Flash point:** -19 °C (-2 °F)**Decomposition temperature:** Not determined.**Auto igniting:** Product is not self-igniting.**Danger of explosion:** Stable at normal temperatures. Can may burst when exposed to temperatures exceeding 120 degrees fahrenheit.

In use, may form flammable/explosive vapour-air mixture.

**Lower Explosion Limit:** 1.7 Vol %**Upper Explosion Limit:** 10.9 Vol %**Vapor pressure:** 40 PSI 2750 hPa**Vapor Pressure:** 40 PSI, 2750 hPa**Relative Density:** Between 0.77 and 0.85 (Water equals 1.00)**Vapour density:** Not determined.**Evaporation rate:** Not applicable.**Partition coefficient: n-octonal/water:** Not determined.**Solubility:** Not determined.**Viscosity:** Not determined.**Dynamic:** Not determined.**Kinematic:** Not determined.**VOC content:** 530.2 g/l / 4.42 lb/gl**VOC content (less exempt solvents):** 63.5 %**MIR Value:** 1.07**Solids content:** 36.3 %**10 Stability and reactivity****Conditions to avoid:** Do not allow can to exceed 120 degrees Fahrenheit. Do not warehouse in subfreezing temperatures.**Possibility of hazardous reactions:** No dangerous reactions known.**Conditions to avoid:** No further relevant information available.**Incompatible materials:** No further relevant information available.

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Hazardous decomposition: No dangerous decomposition products known.

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**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)

Dermal LD50 &gt;10000 mg/kg (rbt)

Inhalative LC50/4 h &gt;6.82 mg/l (rat)

**1330-20-7 xylene (mix)**

Oral LD50 8700 mg/kg (rat)

Dermal LD50 2000 mg/kg (rbt)

Inhalative LC50/4 h 6350 mg/l (rat)

**872-50-4 N-methyl-2-pyrrolidone**

Oral LD50 3600 mg/kg (rat)

Dermal LD50 8000 mg/kg (rbt)

**Skin effects:** No irritant effect.**Eye effects:** No irritating effect.**Sensitization:** No sensitizing effects known.**IARC (International Agency for Research on Cancer)**

108-88-3	Toluene	3
13463-67-7	titanium dioxide	2B
1330-20-7	xylene (mix)	3

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**12 Ecological information****Toxicity****Aquatic toxicity:** Harmful to aquatic organisms.  
Hazardous for water, do not empty into drains.**Persistence and degradability:** The product is degradable after prolonged exposure to natural weathering processes.**Other information:** This product does not contain any chlorofluorocarbons (CFC's), hydrochlorofluorocarbons (HCFC's), perfluorocarbons (PFC's), or chlorinated solvents.**Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.**Ecotoxicological effects:****Remark:** Toxic for fish**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**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.

**Waste treatment methods****Recommendation:** Completely empty cans should be recycled.**14 Transport information****UN-Number** UN1950**DOT** N/A**UN proper shipping name:****DOT** Consumer Commodity ORM-D  
Aerosols, flammable**Transport hazard class(es):****Class** 2.1**Marine pollutant:** Yes

Symbol (fish and tree)

**Special precautions for user:** Warning: Gases**EMS Number:** F-D,S-U**Packaging Group:** --**15 Regulatory information****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

100-41-4 ethyl benzene

**California Proposition 65 chemicals known to cause developmental toxicity:**

108-88-3 Toluene

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**CANADIAN ENVIRONMENTAL PROTECTION ACT:**

872-50-4 N-methyl- pyrrolidone

All hazardous ingredients for this product appear on the Canadian Domestic Substance List.

**EPA:**

108-88-3	Toluene	II
142-82-5	heptane	D
1330-20-7	xylene (mix)	I

**GHS label elements  
Hazard statements**

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

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

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.

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 skin irritation occurs: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

Get medical advice/attention if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

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.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**16 Other information**

This product was manufactured in the U.S.A.

The information on this sheet is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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