



Material Safety Data Sheet

The Toro Company
8111 Lyndale Ave S
Bloomington, MN 55420

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Product Identification

Product Name:	Toro Red Paint	Parts Number:
Product type:	paint	361-10, 361-11
MSDS #		
Emergency Contact:	Chemtrec : 1-800-424-9300	
Contact Number:	1-952-888-8801	

Chemical Components

Chemical	CAS #	%	ACGIH TLV	OSHA PEL	REL
Acetone	67-64-1	19.83			
propane	74-98-6	15.84	(4508) mg/m ³ , (2500) ppm	1800 mg/m ³ , 1000 ppm	1800 mg/m ³ , 1000 ppm
n-butane	106-97-8	9.3	1900 mg/m ³ , 800 ppm		1900 mg/m ³ , 800 ppm
barium sulphate, natural	7727-43-7	8.36	10 mg/m ³ (e)	15*; 5** mg/m ³ *Total dust **Respirable fraction	15*; 5** mg/m ³ *Total dust **Respirable fraction
Glycol Ether EP	2807-30-9	5.35			
methyl isobutyl ketone	108-10-1	5.03	Short-term value: 307 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm BEI	410 mg/m ³ , 100 ppm	Short-term value: 300 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm
Methyl Propyl Ketone	107-87-9	3.05	Short-term value: 881 mg/m ³ , 250 ppm Long-term value: 705 mg/m ³ , 200 ppm	700 mg/m ³ , 200 ppm	530 mg/m ³ , 150 ppm
PM acetate	108-65-6	2.77			WEEL 100 ppm
isobutyl acetate	110-19-0	2.64	713 mg/m ³ , 150 ppm	700 mg/m ³ , 150 ppm	700 mg/m ³ , 150 ppm
xylene (mix)	1330-20-7	2.41	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI	435 mg/m ³ , 100 ppm	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm (o-, m-, & p-isomers)

Physical and Chemical Properties

Characteristics		Physical Properties		Hazards Description	Physical Dangers
Physical State	Aerosol	Vapor pressure	40 PSI, 2750 hPa	Irritant Extremely flammable Stable at normal temperatures. Can burst when exposed to temperatures exceeding 120 degrees Fahrenheit. In use, may form flammable/explosive vapour-air mixture.	Has a narcotizing effect. Danger! Extremely flammable liquid and vapor in a pressurized container. Vapors may cause flash fire. Keep away from heat, sparks, and flame. Extremely flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness Keep out of the reach of children. Do not allow the can to exceed 120 degrees Fahrenheit. Stable at normal temperatures.
Color	red	pH			
Odor	solvent	Boiling point/range:	-44°C (-47°F)		
HMIS Rating		Melting point/range:			
Health:	1	Specific gravity	Between 0.77 and 0.90 (Water equals 1.00)		
Flammability:	4	Vapor density			
Physical Hazard:	3	Solids content	33.9 %		
		Solubility in water			
		VOC in weight percent (less acetone)	47.9 %		
		VOC content:	478.7 g/l / 3.99 lb/gl		
		Flash Point	-19°C (-2°F)		
		Lower Explosion Limit:	1.7 Vol %		
		Upper Explosion Limit:	10.9 Vol %		
		Ignition temperature	230.0°C (446°F)		

Health Hazards

Major Routes of Exposure:	Ingredients Considered Hazardous to Health	Potential Health Effects:
Inhalation X		Inhalation. Vapors cause irritation to the eyes, nose, throat, skin, and central nervous system. Symptoms may include dizziness, throat irritation, headache, fatigue, swelling of eyes, and nausea. Skin contact . Vapors cause irritation to the eyes, nose, throat, skin, and central nervous system. Eye contact Vapors cause irritation to the eyes, nose, throat, skin, and central nervous system.
Skin X		
Ingestion		
	Effects of short-term overexposure: Vapors cause irritation to the eyes, nose, throat, skin, and central nervous system. Symptoms may include dizziness, throat irritation, headache, fatigue, swelling of eyes, and nausea.	
	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.	Ingestion:

First Aid Measures	Accidental Release Measures	Personal Protection
<p>After inhalation: Supply fresh air; consult doctor in case of complaints.</p> <p>After skin contact: Remove contaminated clothing. Wash exposed area with soap and water.</p> <p>After eye contact: Move to fresh air. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.</p> <p>After swallowing: Contact physician or poison control center</p>	<p>Wear protective equipment. Keep unprotected persons away.</p>	<p>Protective equipment: No special measures required</p> <p>Protective hygienic measures: Keep away from foodstuffs and animal feed. Wash hands after use.</p> <p>Breathing equipment: A respirator is generally not necessary when using this product outdoors or in large open areas. In cases of inadequate ventilation, a respiratory protective device should be worn to prevent overexposure. Use suitable respiratory protective device in case of insufficient ventilation.</p> <p>Protection of hands: Protective gloves. The glove material has to be impermeable and resistant to the substance. No glove recommendation can be given.</p> <p>Eye protection: Tightly sealed goggles</p>

Fire and Explosion Hazards

Extinguishing Media	Special Fire Fighting Procedures	Unusual Fire and Explosion Hazards
<p>CO2, sand, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.</p>	<p>Do not spray on a naked flame or any incandescent material.</p> <p>Do not smoke. Protect from electrostatic charges.</p>	<p>Danger! Extremely flammable liquid and vapor in a pressurized container. Vapors may cause flash fire.</p>

Handling and Storage

Accidental Release /Spill Measures to Take	Precautions for Storage	Handling
<p>Do not allow product to reach sewage systems or ground water.</p> <p>Inform appropriate authorities in case of seepage into water course or sewage system.</p> <p>Do not flush with water or aqueous cleansing agents. Use diluted caustic solution. Soak up spills with inert absorbent material. Refer to section 13 for disposal information.</p>	<p>Observe pressurized container storage regulations. Consult with your local authorities.</p> <p>Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions</p>	

Disposal/Transportation

Disposal Method	Transportation
<p>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.</p> <p>Recommendation: Empty cans should be recycled.</p>	<p>Hazard class: 2.1</p> <p>Identification number: N/A</p> <p>Label 2.1</p> <p>ADR/RID class: 2 5TF Gases</p> <p>UN-Number: 1950</p> <p>IMDG Class: 2</p> <p>Packaging group: II</p> <p>EMS Number: F-D,S-U</p> <p>Marine pollutant: No</p> <p>ICAO/IATA Class: 2.1</p> <p>Proper shipping name: Aerosols, Flammable</p>

Regulations

15 Regulations

SARA Section 355 (extremely hazardous substances):

None of the ingredients in this product are listed.

SARA Section 313 (Specific toxic chemical listings):

108-10-1 methyl isobutyl ketone

1330-20-7 xylene (mix)

TSCA (Toxic Substances

Control Act): All ingredients are listed.

PROPOSITION 65 Chemicals known to cause cancer:

100-41-4 ethyl benzene

Canadian WHMIS: Class A, B5---Flammable Aerosols

EPA: A= Known human carcinogen B= Probable human carcinogen

C= Possible human carcinogen

D= Not classifiable as to human carcinogenicity: Inadequate human and animal evidence of carcinogenicity (or no data is available).

110-19-0 isobutyl acetate D

1330-20-7 xylene (mix) D

IARC: Group 2B: The ingredient is possibly carcinogenic to humans. There is limited evidence of carcinogenicity.

Group 3: The ingredient is unclassifiable as to its carcinogenicity to humans.

1330-20-7 xylene (mix)

ACGIH TLVs: A1-designates a confirmed human carcinogen.

A2-designates a suspected human carcinogen.

A3-designates an animal carcinogen.

A4-designates "not classifiable as a human carcinogen".

110-19-0 isobutyl acetate

1330-20-7 xylene (mix)

NIOSH:

None of the ingredients is listed.

Toxicology Information

Primary effect on the skin: No irritant effect.

Primary effect on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Ecological Information

This product does not contain any chlorofluorocarbons (CFC's), chlorinated solvents, or heavy metals (lead, mercury, cadmium, etc.). No specific ecological data is available for this product