

# Safety Data Sheet (SDS)

## 1 Identification of the substance and manufacturer

Product Name: ..... Thermal Target Paint  
 Product No.: ..... 58254  
 Manufacturer: ..... Rangestore.net 1-800-637-6047  
 Contact: ..... Larry Joe Steele, Jr.  
 Emergency Phone No. (24 Hrs.): **CHEM-TEL 1-800-255-3924**

SDS Issue Date: ..... 1/15/2025  
 SDS Replaces Date: ..... N/A

## 2 Hazard(s) identification

### Classification of the substance or mixture

Substances and mixtures which, in contact with water, emit flammable gases 1  
 Eye irritation 2A  
 Reproductive toxicity 2  
 Specific target organ toxicity (single exposure) 3  
 Specific target organ toxicity (repeated exposure) 2

H260 In contact with water releases flammable gases, which may ignite spontaneously.  
 H319 Causes serious eye irritation.  
 H361 Suspected of damaging fertility or the unborn child.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure.

### Additional information: GHS Hazard pictograms



GHS02 GHS07 GHS08

### Signal word Hazard statements

Danger  
 In contact with water releases flammable gases, which may ignite spontaneously.  
 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.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wash thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 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 eye irritation persists: Get medical advice/attention.  
 Store locked up.  
 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	25-50%
74-98-6	propane	15-25%
106-97-8	n-butane	5-10%
110-19-0	Isobutyl Acetate	5-10%
108-88-3	Toluene	≥5-<10%
7429-90-5	Aluminum flake	1-5%
64742-47-8	Mineral Spirits	1-5%
108-10-1	methyl isobutyl ketone	1-5%
107-87-9	Methyl Propyl Ketone	1-5%
2807-30-9	Glycol Ether EP	1-5%

## 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.  
**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 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 ppm  
 REL (USA) Long-term value: 590 mg/m<sup>3</sup>, 250 ppm  
 TLV (USA) Short-term value: 500 ppm  
 Long-term value: 250 ppm  
 A4, BEI

#### 74-98-6 propane

PEL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm  
 REL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm  
 TLV (USA) see Appendix F Minimal oxygen content ( D, EX)

#### 106-97-8 n-butane

REL (USA) Long-term value: 1900 mg/m<sup>3</sup>, 800 ppm  
 TLV (USA) Short-term value: 1000 ppm  
 (EX)

#### 110-19-0 Isobutyl Acetate

PEL (USA) Long-term value: 700 mg/m<sup>3</sup>, 150 ppm  
 REL (USA) Long-term value: 700 mg/m<sup>3</sup>, 150 ppm  
 TLV (USA) Short-term value: 150 ppm  
 Long-term value: 50 ppm

#### 108-88-3 Toluene

PEL (USA) Long-term value: 200 ppm  
 Ceiling limit value: 300; 500\* ppm  
 \*10-min peak per 8-hr shift  
 REL (USA) Short-term value: 560 mg/m<sup>3</sup>, 150 ppm  
 Long-term value: 375 mg/m<sup>3</sup>, 100 ppm  
 TLV (USA) Long-term value: 20 ppm  
 BEI, OTO, A4

#### 7429-90-5 Aluminum flake

PEL (USA) Long-term value: 15\*, 5\*\* mg/m<sup>3</sup>  
 \*Total dust; \*\* Respirable fraction  
 REL (USA) Long-term value: 10\* 5\*\* mg/m<sup>3</sup>  
 as Al\*Total dust\*\*Respirable/pyro powd./welding f.  
 TLV (USA) Long-term value: 1\* mg/m<sup>3</sup>  
 as Al; \*as respirable fraction, A4

#### 108-10-1 methyl isobutyl ketone

PEL (USA) Long-term value: 410 mg/m<sup>3</sup>, 100 ppm  
 REL (USA) Short-term value: 300 mg/m<sup>3</sup>, 75 ppm  
 Long-term value: 205 mg/m<sup>3</sup>, 50 ppm  
 TLV (USA) Short-term value: 75 ppm  
 Long-term value: 20 ppm  
 BEI, A3

#### 107-87-9 Methyl Propyl Ketone

PEL (USA) Long-term value: 700 mg/m<sup>3</sup>, 200 ppm

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REL (USA) Long-term value: 530 mg/m<sup>3</sup>, 150 ppm  
 TLV (USA) Short-term value: 150 ppm

**Ingredients with biological limit values:**

**67-64-1 Acetone**

BEI (USA) 25 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: Acetone (nonspecific)

**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

**Hygienic protection:** Immediately remove all soiled and contaminated clothing. Wash hands after use. Store protective clothing separately. Avoid contact with the eyes and skin. 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 NIOSH approved respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical hygiene.

**Hand protection:** Nitrile gloves. The glove material must be impermeable and resistant to the substance.

**Eye protection:** Tightly sealed goggles

## 9 Physical and chemical properties

**Physical state:** Aerosol  
**Odor:** Aromatic  
**Odor threshold:** Not determined.  
**Melting point/Melting range:** Undetermined.  
**Boiling point:** -44.5 °C (-48.1 °F)  
**Flammability:** Extremely flammable.  
**Lower Explosion Limit:** 1.7 Vol %  
**Upper Explosion Limit:** 10.9 Vol %  
**Flash point:** -19 °C (-2.2 °F)  
**Flammability (solid, gas):** Extremely flammable.  
**Decomposition temperature:** Not determined.  
**pH-value:** Not determined.  
**Viscosity:** Not determined.  
**Solubility:** Not determined.  
**Vapor pressure:** Not determined.  
**Relative Density:** Between 0.77 and 0.85 (Water equals 1.00)  
**Vapor density:** Not determined.  
**Particle characteristics:** Not applicable.  
**Appearance:** Aerosol.  
**Ignition temperature:** Product is not self-igniting.  
**Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.  
**Evaporation rate:** Not applicable.  
**Partition coefficient: n-octonal/water:** Not determined.

## 10 Stability and reactivity

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

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**Hazardous decomposition:** No dangerous decomposition products known.

## 11 Toxicological information

### LD/LC50 values that are relevant for classification:

#### 110-19-0 Isobutyl Acetate

Oral	LD50	4,763 mg/kg (rbt)
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#### 108-10-1 methyl isobutyl ketone

Oral	LD50	2,100 mg/kg (rat)
Dermal	LD50	16,000 mg/kg (rab)
Inhalative	LC50/4 h	11 mg/l (ATE) 8.3-16.6 mg/l (rat)

**Information on toxicological effects:** No data available.  
**Skin effects:** No irritant effect.  
**Eye effects:** Irritating effect.  
**Sensitization:** No sensitizing effects known.

## 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.  
**Other information:** This product does not contain any chlorofluorocarbons (CFC's), hydrochlorofluorocarbons (HCFC's), perfluorocarbons (PFC's), heavy metals (chromium, lead, cadmium), per and polyfluoroalkyl substances (PFA's), or chlorinated solvents.  
**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.  
**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

UN-Number	UN1950
DOT	UN1950
DOT	Aerosols, flammable
ADR	1950 AEROSOLS
Transport hazard class(es):	
Class	2.1 Gases
Special marking (IATA):	
Packaging Group:	--
Special precautions for user:	Warning: Gases
EMS Number:	F-D,S-U
UN "Model Regulation":	UN 1950 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
7429-90-5	Aluminum flake
108-10-1	methyl isobutyl ketone

**Toxic Substances Control Act (TSCA):** All ingredients are found on the inventory list of substances.  
**Canadian Domestic Substances List (DSL):** All ingredients are listed or exempted.  
**Consumer Product Safety Commission (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:

108-10-1	methyl isobutyl ketone
100-41-4	ethyl benzene

### Prop 65 chemicals known to cause birth defects or reproductive harm:

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

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**EPA:**

67-64-1	Acetone	I
110-19-0	Isobutyl Acetate	D
108-10-1	methyl isobutyl ketone	I

**16 Other information**

**Contact:** Regulatory Affairs