

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 11/13/2008

Reviewed on 11/13/2008

## 1 Identification of substance

**Trade name:** GOLDEN CAD STEP 1 REFLECTIVE ALUMINUM PAINT

**Product code:** 10031ZA

**Manufacturer/Supplier:** The Easthill Group dba/ The Eastwood Company  
263 Shoemaker Road  
Pottstown, PA 19464  
USA & Canada: 800-345-1178 Outside USA: (610) 323-2200

**Emergency information:** Chem-Trec 800-424-9300

## 2 Composition/Data on components

**Chemical Description:** This product is a mixture of the substances listed below with nonhazardous additions.

### Dangerous components:

108-88-3	Toluene	32.12%
74-98-6	propane	25.21%
106-97-8	n-butane	14.81%
9011-11-4	Hydrocarbon Resin	9.3%
67-64-1	Acetone	9.29%
64742-47-8	Mineral Spirits	6.14%
7429-90-5	Aluminum flake	2.19%

## 3 Hazards identification

**Hazard description:**   Harmful  
Extremely flammable

**Physical dangers:** Extremely flammable.  
Irritating to eyes and skin.  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
Keep out of the reach of children.

**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.

**NFPA ratings (scale 0 - 4):** Health = 1  
Fire = 4  
Reactivity = 3

**HMIS-ratings (scale 0 - 4):** Health= 1  
Fire= 4  
Physical Hazard= 3

## 4 First aid measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Move to fresh air. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Contact physician or poison control center.

## 5 Fire fighting measures

**Extinguishing agents:** CO2, sand, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment:** No special measures required.

## 6 Accidental release measures

**Personal safety precautions:** Wear protective equipment. Keep unprotected persons away.

**Environmental safety precautions:** Do not allow product to reach sewage systems or ground water.

**Measures for cleaning/collecting:** Ensure adequate ventilation.

## 7 Handling and storage

**Fire/explosion protection:** Do not spray on a naked flame or any incandescent material. Do not smoke. Protect from electrostatic discharges.

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**8 Exposure controls and personal protection:****Components with limit values that require monitoring at the workplace:****108-88-3 Toluene**

PEL	Short-term value: C 300; 500* ppm Long-term value: 200 ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
TLV	75 mg/m <sup>3</sup> , 20 ppm

**74-98-6 propane**

PEL	1800 mg/m <sup>3</sup> , 1000 ppm
REL	1800 mg/m <sup>3</sup> , 1000 ppm
TLV	Varies mg/m <sup>3</sup> , 1000 ppm

**106-97-8 n-butane**

REL	1900 mg/m <sup>3</sup> , 800 ppm
TLV	Varies mg/m <sup>3</sup> , 1000 ppm

**67-64-1 Acetone**

PEL	2400 mg/m <sup>3</sup> , 1000 ppm
REL	590 mg/m <sup>3</sup> , 250 ppm
TLV	Short-term value: 1782 mg/m <sup>3</sup> , 750 ppm Long-term value: 1188 mg/m <sup>3</sup> , 500 ppm BEI

**7429-90-5 Aluminum flake**

PEL	15* 5** mg/m <sup>3</sup> Metal dust *total dust **respirable fraction
REL	10* 5** mg/m <sup>3</sup> Metal dust *total dust **respirable fraction
TLV	1* mg/m <sup>3</sup> *as respirable fraction

**Protective hygienic measures:****Breathing equipment:****Protection of hands:****Eye protection:**

Keep away from foodstuffs and animal feed. Wash hands after use.

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. Please consult an authority on chemical hygiene monitoring if you suspect overexposure conditions exist and need a specific recommendation on proper ventilation techniques and personal protection.

Protective gloves. The glove material has to be impermeable and resistant to the substance. No glove recommendation can be given.

Tightly sealed goggles

**9 Physical and chemical properties:****General Information:****Odor:** Aromatic**Boiling point/Boiling range:** -44°C**Flash point:** -19°C**Ignition temperature:** 210°C**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:** 1.5 Vol %**Upper Explosion Limit:** 10.9 Vol %**Vapor Pressure:** 40 PSI, 2750 hPa**Density at 20°C:** 0.7029 g/cm<sup>3</sup>**Specific Gravity:** Between 0.77 and 0.85 (Water equals 1.00)**VOC content:** 606.9 g/l / 5.07 lb/gal**VOC content (less exempt solvents):** 79.2 %**MIR value:** 79.2 %

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**MIR Value:** 1.72**Solids content:** 11.5 %**10 Stability and reactivity:****Conditions to be avoided:** Do not allow the can to exceed 120 degrees Fahrenheit. Stable at normal temperatures.**Possibility of Hazardous Reactions:** No dangerous reactions known.**11 Toxicological information:****Primary effect on the skin:** Irritant to skin and mucous membranes.**Primary effect on the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:** The product shows the following dangers according to internally approved calculation methods for preparations:**12 Ecological information****Other information:** This product does not contain any chloroflourocarbons (CFC's), chlorinated solvents, lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl (PBB), or polybrominated diphenyl ether (PDBE). No specific ecological data is available for this product.**Acquatic toxicity:** Hazardous for water, do not empty into drains.**13 Disposal considerations****DISPOSAL METHOD:** 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:****Hazard class:** 2.1  
**Identification number:** N/A  
**Label:** 2.1  
**ADR/RID class:** 2 5F Gases  
**UN-Number:** 1950  
**IMDG Class:** 2.1  
**Packaging group:** II  
**EMS Number:** F-D,S-U  
**Marine pollutant:** No  
**ICAO/IATA Class:** 2.1  
**Propper shipping name:** Aerosols, Flammable  
Consumer Commodity ORM-D**15 Regulations****SARA Section 355 (extremely hazardous substances):**

None of the ingredients in this product are listed.

**SARA Section 313 (Specific toxic chemical listings):**

108-88-3 Toluene

7429-90-5 Aluminum flake

**TSCA (Toxic Substances****Control Act):** All ingredients are listed.**PROPOSITION 65 Chemicals known to cause cancer:**

None of the ingredients in this product are listed.

**PROPOSITION 65****Chemicals known to cause developmental toxicity:** 108-88-3 Toluene**EPA:**

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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).

108-88-3	Toluene	II
67-64-1	Acetone	I

**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.

108-88-3	Toluene	3
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**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".

108-88-3	Toluene	A4
67-64-1	Acetone	A4
7429-90-5	Aluminum flake	A4

**NIOSH:**

None of the ingredients is listed.

**Hazard symbols:** Harmful  
Extremely flammable

**Hazard-determining components of labelling:** Toluene  
**Risk phrases:** Extremely flammable.  
Irritating to eyes and skin.  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**Safety phrases:** Keep out of the reach of children.  
Keep in a cool place.  
Keep container dry.  
Keep container in a well-ventilated place.  
Keep away from food, drink and animal feedingstuffs.  
Do not breathe gas/fumes/vapour/spray.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point  
Wear suitable protective clothing and gloves.  
If swallowed, seek medical advice immediately and show this container or label.  
Use only in well-ventilated areas.

**Special labeling of certain preparations:** Keep out of the reach of children.

**16 Other information**

This information 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:** Regulatory Affairs

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
VOC: Volatile Organic Compounds (USA, EU)