

Material Safety Data Sheet
acc. to ISO/DIS 11014

1. Identification of substance

Trade Name: **BORDER FLUORESCENT ORANGE MARKING PAINT**
Product Code: 20-657

Manufacturer/Supplier: BCS, LLC
4502 E. University Dr.
Phoenix, AZ 85034
877-426-7337

Information Department: Health & Safety Department

Emergency Information: CHEMTEL 1-800-255-3924, 813-248-0585 if located outside the U.S.

2. Composition / Data on components

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

Dangerous Components:		
74-98-6	propane	17.64%
64742-89-8	VM&P Naptha	15.45%
1317-65-3	Calcium Carbonate	15.28%
106-97-8	n-butane	10.36%
13463-67-7	titanium dioxide	6.33%
64742-47-8	Mineral Spirits	5.45%

3. Hazardous identification

Hazard description: Irritant
Flammable
Physical dangers: Flammable liquid and vapor in a pressurized container. Keep away from heat, sparks, and flame.
Flammable
Irritating to eyes and respiratory system
Keep out of the reach of children.

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.

Effect 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
Flammability - 3
Reactivity - 3

HMIS ratings (scale 0-4)
Health - 1
Flammability - 3
Physical Hazard - 3

4. First aid measures

After Inhalation: Supply fresh air; consult a doctor in case of complaints
After skin contact: Remove contaminated clothing. Wash exposed area with soap and water.
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 a 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: Inform appropriate authorities in case of seepage into water course or sewage system.

Measures for cleaning/collecting: Do not allow product to reach sewage systems or ground water
Do not flush with water or aqueous cleaning agents. Use diluted caustic solution. Soak up spills with inert absorbent material. Refer to section 13 for disposal information.

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7. Handling and storage	
Fire/explosion protection:	Do not smoke. Protect form electrostatic charges.
Storage requirements:	Observe pressurized container storage regulations. Consult with your local authorities. Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions.

8. Exposure controls and personal protection:	
Components with limit values that require monitoring at the workplace:	
106-97-8 n -butane	
REL ()	1900 mg/m ³ , 800ppm
Protective hygienic measures:	Keep away from foodstuffs and animal feed. Wash hands after use.
Breathing equipment:	Use suitable respiratory protective device in case of insufficient ventilation. 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.
Protection of hands:	Protective gloves. The glove material has to be impermeable and resistant to the substance. No glove recommendation can be given.
Eye Protection:	Tightly sealed goggles

9. Physical and chemical properties:	
General Information:	
Form:	Aerosol
Color:	According to trade name description in section 1.
Odor:	Solvent
Boiling Point/Boiling Range:	-44°C (-47°F)
Flash point:	-19°C (-2°F)
Ignition temperature:	210°C (410°F)
Auto Igniting:	Product is not self-igniting.
Danger of explosion:	Stable at normal temperatures. Can may burst when exposed to temperatures exceeding 120°F. In use, may form flammable/explosive vapour-air mixture.
Lower Explosion Limit:	0.9 Vol %
Upper Explosion Limit:	10.9 Vol %
Vapor Pressure:	40 PSI, 2570 hPa
Density at 20°C (68°F):	0.86131 g/cm ³
Specific Gravity:	Between 0.77 and 0.85 (Water equals 1.00)
VOC content:	515.7 g/l / 4.30 lb/gal
VOC content (less exempt solvents)	49.4%
Water:	20.3%
MIR Value:	.54
Solids Content:	29.1%

10. Stability and reactivity:	
Conditions to be avoided:	Do not allow the can to exceed 120°F. Stable at normal temperatures.
Possibility of Hazardous Reactions:	No dangerous reactions known.

11. Toxicological information:	
Primary effect on the skin:	No irritant effect.
Primary effect on the eye:	Irritating effect.

Sensitization:	No sensitizing effects known.
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12. Ecological information:	
Other information:	This product does not contain any chlorofluorocarbons (CFC's), chlorinated solvents, lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl (PBB) or polybrominated diphenyl ether.
Aquatic toxicity:	Hazardous for water, do not empty into drains.

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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: 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 substances):		
None of the ingredients in this products are listed		
SARA Section 313 (specific toxic chemical listings):		
None of the ingredients is listed		
TSCA (Toxic Substances Control Act): All ingredients listed		
PROPOSITION 65 Chemicals knows to cause cancer.		
100-41-4	ethyl benzene	
Canadian WHMIS: Class A, B5 --- Flammable Aerosols		
EPA:		
A = Know human Carcinogen B= Probably 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).		
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.		
13463-67-7	titanium dioxide	2B
ACGIH TLV's 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"		
13463-67-7	titanium dioxide	A4
NIOSH:		
13463-67-7		

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