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1.) Identification of the Mixture and of the Company

Product identifier: Hi-Vis Marking Paint - Aerosol

Product name: Hi-Vis Marking Paint

Relevant identified uses of the substance: Designed to adhere to most surfaces, including pavement, gravel, and soil.

Uses advised against: Do not apply if surface is wet, or if rain is imminent within 4 hours of application.

CAS No: Not Applicable (mixture)
EC No: Not Applicable (mixture)
Index No: Not Applicable (mixture)
Manufacturer/Supplier: B lue Diamond S.T.L

Street address/P.O. Box: Sandal Stones Rd, Kirk Sandall Industrial Estate

Country ID/Postcode/Place
Telephone number:
e-mail:

National contact:

Doncaster DN3 1QR
+44 (0) 1302 310113
sales@bdstl.com

Rlue Diamond S.T.L.

National contact: Blue Diamond S.T.L For Product Information: +44 (0) 1302310113

Emergency telephone number: +44 (0)1302310113 English Language Service

2. Hazards identification

Classifications

Physical Hazards: Aerosol - Category 1

Flam. Gas. 1 Press. Gas Flam. Liq. 2

Health Hazards:

Car 1B Muta 1B Asp Tox. 1

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Eye Irrit. - 2 Rep. 2 Skin. Irr. 2 STOT SE3

Environmental Hazards: Aquatic Chronic 2

Labeling

Signal Word: Danger

Hazard Statements: H220 – Extremely flammable gas

H222 – Extremely flammable aerosol

H225 – Highly flammable liquid and vapour. H229 - Pressurized container: may burst if heated

H304 – May be fatal if swallowed and enters airways.

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H336 – May cause drowsiness or dizziness.

H340 – May cause genetic defects

H350 – May cause cancer

H361 – Suspected of damaging fertility or the unborn child.

H373 – May cause damage to nervous system through prolonged or

repeated exposure(Inhalation)

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements: P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P103 - Read label before use

P210 - Keep away from heat/sparks/open flames/hot surfaces - no

smoking

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P262 - Do not get in eyes, on skin, or on clothing

P264 - Wash ... thoroughly after handling

P280 - Wear protective gloves/eye protection/face protection

P303+P361+P353 - If on skin or hair, remove/takeoff immediately all contaminated clothing. Rinse skin with water/shower.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding $50^{\circ}\text{C}/122^{\circ}\text{F}$

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation

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Symbols/Pictograms:

3. Composition / Information on Ingredients

Composition

Chemical	Synonyms	CAS Number	EINECS Number	Weight Percent	Hazard Category	H-Code
Dimethyl Ether	DME	115-10-6	204-065-8	30-34%	Press. Gas Flam. Gas 1	H220 H350
					Carc. 1B	H340
					Muta. 1B	
Hexane	n-Hexane	110-54-3	203-777-6	5-10%	Flam. Liq. 2	H225
					Repr. 2	H361f ***
					Asp. Tox. 1	H304
					STOT RE 2 *	H373 **
					Skin Irrit. 2	H315
					STOT SE 3	H336
					Aquatic Chronic 2	H411
Aliphatic	Solvent	64742-89-8	265-192-2	5-10%	Carc. 1B	H350
Petroleum	Naphtha				Muta. 1B	H340
Distillates					Asp. Tox. 1	H304
Aliphatic	Solvent	64742-88-7	265-191-7	1-5%	Asp. Tox. 1	H304
Petroleum	Naphtha					
Distillates						
Aliphatic	Solvent	8032-32-4	232-453-7	1-5%	Carc. 1B	H350
Petroleum	Naphtha				Muta. 1B	H340
Distillates					Asp. Tox. 1	H304
Non- fluorescent colors also contain:						
Acetone	Propanone	67-64-1	200-662-2	1-5%	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225, H319, H336

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Other Product Information

Chemical Identity: Mixture

4.) First Aid Measures

General Advice: If symptoms persist, always call a doctor.

Inhalation First Aid: Remove victim to fresh air and provide oxygen if breathing is

difficult. If not breathing, give artificial respiration, preferably

mouth to mouth. Get medical attention immediately.

Skin Contact First Aid: Wash with soap and water. Remove contaminated clothing and

shoes. Get medical attention immediately. Wash clothing before

reuse.

Eye Contact First Aid: If contact with eyes, immediately flush eyes with plenty of water

for at least 15 minutes, while holding eyelids open. Get medical

attention immediately.

Ingestion First Aid: If swallowed, wash out mouth with water provided the person is

conscious. Do not induce vomiting. Never give anything by mouth

to an unconscious person. Get medical attention immediately.

Most Important

Symptoms/Effects: Exposure may cause slight irritation to the skin, eyes, and respiratory tract.

Excessive exposure may cause central nervous system effects.

5. Fire Fighting Measures

Flammable Properties: Aerosol Auto Ignition Temperature: Not Available

Suitable extinguishing media: Carbon dioxide, dry chemical, water spray.

Unsuitable extinguishing media: None known

Special hazards arising from the

substance or mixture: None known

Hazardous combustion products: Carbon dioxide, Carbon monoxide

Fire & Explosion Hazards: Closed Containers may rupture due to the buildup of pressure

from extreme temperatures.

Precautions for fire-fighters: Use water spray to cool containers exposed to heat or fire to prevent

pressure build up. In the event of a fire, wear full protective clothing and NIOSH- approved self-contained breathing apparatus with full face piece

operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

PERSONAL PRECAUTIONARY MEASURES:

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- 1) Follow personal protective equipment recommendations found in section 8.
- 2) Maintain adequate ventilation.

SPILL CLEAN-UP PROCEDURES:

- 1.) Evacuate unprotected personnel from the area.
- 2.) Remove sources of ignition if safe to do so.
- 3.) Pickup spilled materials using non-sparking tools and place in an appropriate container for disposal.
- 4.) Contain spill to prevent material from entering sewage or ground water systems.
- 5.) Always dispose of waste materials in accordance with all EU, National and Local Regulations.

7. Handling and Storage

Handling:

Flammable Aerosol, use in a well ventilated area.

Do not use near sources of ignition.

Do not to eat, drink and smoke while working with this material.

Wash hands after use.

Conditions for safe storage, including any incompatibilities:

Store out of direct sunlight.

Storage Temperature: 32° to 120°F (0° to 49°C).

No known incompatibilities.

8. Exposure Controls / Personal Protection

Appropriate engineering controls:

Ensure adequate ventilation. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

Keep away from sources of ignition.

Take precautionary measures against static discharge.

Personal Protection:

Eye & face protection devices such as safety glasses, safety goggles or face shield are recommended.

Skin protection

Wear the appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection:

Use only in an adequately ventilated area. For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA).

Hazardous Ingredient	CAS	ACGIH TLV	ACGIH TLV	OSHA	OSHA PEL
	Number	(TWA)	(STEL)	PEL	(STEL)
				(TWA)	

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Aliphatic Petroleum Distillates	64742-88-	N/AV	N/AV	N/AV	N/AV
Aliphatic Petroleum Distillates	64742-89-	N/AV	N/AV	N/AV	N/AV
Dimethyl Ether	8 1150-10-6	N/AV	N/AV	N/AV	N/AV
Aliphatic Petroleum Distillates	8032-32-4	200ppm	300ppm	200ppm	N/AV
Hexane	110-54-3	50ppm	N/AV	500ppm	N/AV
Acetone					
Accione	67-64-1	500ppm	750ppm	1000ppm	N/AV

*Values are based on the 2014 Guide to Occupational Exposure Values by ACGIH

9. Information on Basic Physical and Chemical Properties

Appearance: Color varies by product.	Odor: Hydrocarbon Odor
Odor Threshold: N/AV	pH: Not Applicable (solvent Base)
Melting Point: N/AV	Freezing Point: N/AV
Initial Boiling Point: N/AV	Boiling Point Range: N/AV
Flash Point: <0° F (-18° C)	Evaporation Rate: Faster than n-Butyl
	Acetate
Flammability Solid/Gas: Flammable gas	LEL: 0.9% UEL: 13%
Vapor Pressure: N/AV	Vapor Density: Heavier Than Air
Relative Density: N/AV	Solubility: Negligible
Partition Coefficient:	Auto-ignition Temperature: N/AV
n-octanol/ water: N/AV	
Decomposition Temperature: N/AV	Viscosity: N/AV
Explosive Properties: N/AV	Oxidizing Properties: N/AV

10. Stability & Reactivity

Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions

Chemical stability: Stable under normal conditions Conditions to avoid: Heat and ignition sources Incompatible materials: Strong Oxidizing Agents Hazardous decomposition products: Will not occur

11. Toxicological Information

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood

Routes of exposure: Eyes, skin, ingestion, and/or inhalation

Acute toxicological data: (Acetone) Acute oral LD50: 5800mg/kg(rat)

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(Acetone) LC50: 21000 ppm / 8 hr (rat) (Hexane) LD50: 2870 mg/kg (Rat-Oral)

Eye irritation data: N/AV

Skin irritation/sensitization/absorption data: N/AV Reproductive toxicity data: N/AV

Mutagenicity data: Muta 1B

Symptoms associated with physical contact: N/AV

Acute/chronic effects from short/long

term exposure: Irritating to skin. Prolonged/repeated contact may

cause defatting of the skin which can lead to dermatitis. Not expected to be a skin sensitizer.

Known reportable carcinogens via the following agencies:

NTP: N/AV

IARC: IARC3:Classification not possible from current data

OSHA: TLV-A4

12. Ecological Information

Ecotoxicity: No Data Available

Persistence and degradability: **No Data Available** Bioaccumulative potential: **No Data Available**

Mobility in soil: No Data Available

Results of PBT and vPvB assessment: No Data Available

Other adverse effects: No Data Available

13. Disposal Considerations

Waste Disposal: Dispose of material in accordance with EU, national and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or

^{*} Petroleum distillates may contain chemical carcinogens in limited quantities (< 0.01%). These quantities are determined by the supplier/fraction/purity of the distillate during the manufacturing process. Chemicals that may be present within distillates are listed on California's prop 65 list such as ETHYLBENZENE, BENZENE, and TOLUENE.

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laws governing your location.

Product / Packaging disposal: Dispose of packaging in accordance with federal, state and local requirements, regulations and/or laws governing your location.

14. Transportation Information

US DOT

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference 49
			Applicable	Applicable	CFR 172.101

IMDG

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference
			Applicable	Applicable	IMDG code
					part 3

IATA:

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols, Flammable	2.1	Not	Not	Reference
			Applicable	Applicable	IATA
					Dangerous
					Goods
					Regulation

15. Regulatory Information

Workplace classification:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The Occupational Safety and Health Administration's interpretation of the product's hazard to workers.

SARA Title 3:

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard. Superfund Amendment and Reauthorization Act (SARA) category. SARA requires reporting any spill of any hazardous substance.

TSCA status: All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR. **PROP 65 (CA):** WARNING: This product may contain chemicals know to the state of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

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This SDS has been completed in accordance with GHS Rev04 (2011): U.S OSHA, CMA, ANSI, Canadian WHMIS standards, and European Directives.

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Supersedes: (1/6/2015)

To the best of our knowledge, the information contained herein is believed to be accurate. However, the above data does not imply any guarantee or warranty of any kind, expressed or implied. The final determination of the suitability of any material is the sole responsibility of the user. All materials made present un-known hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards existing.