

**SAFFTY DATA SHEET (91/155/EEC)***Product***1. Declarations to the product**Commercial product name: **73-91466- VILLAGE STEPS**

Manufacturer/Supplier: : LION PENCIL CO.,LTD

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Nat. Code./Location: Tel : +886-2-2963-1717

Information from Department: : Lion Laboratory

Date : 2020/05/25

**2. Chemical characterization**

Aqueous dispersion of pigments and resins

Hazardous ingredients according to 91/155/EEC

	Ingredients	CAS No.	Composition(in % by weight)								
			1WH (#101)	2 (# 2)	3 (#11)	4 (#17)	5 (#21)	6 (#23)	7 (#25)	8 (#31)	9 (#46)
1	Hydroxy Ethylcellulose	9004-62-0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2	Dithio-2,2'-bis (benzmenthylamide)	2527-58-4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	Propylene Glycol	57-55-6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
4	Dispersing agent N	9084-06-4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
5	Calcium Carbonate	00471-34-1	13.7	15.0	14.1	13.2	13.2	13.2	12.3	14.2	12.4
6	Water	7732-15-5	45.8	41.17	40.0	41.97	46.1	42.0	47.5	45.6	39.1
7	Acylate Copolymer	25067-01-0 7732-15-5	15.0	25.0	28.3	26.3	26.4	26.4	25.5	29.0	24.7
8	Titanium Dioxide	13463-67-7	18.3	10.2	0.2	4.9	6.1	7.7	4.5	0.3	16.5
9	Brown Pigment	1309-37-1									
10	Red Pigment	2786-76-7			3.8						
11	Red Pigment	15782-05-5		1.3							
12	Ocher Pigment	20344-49-4				2.3	0.9	1.5	0.5		
13	Orange Pigment	6505-28-8				1.3		0.3			
14	Pink Pigment	81-88-9									
15	Violet Pigment	6358-30-1									
16	Black Pigment	1333-86-4		0.13	0.1	0.03					
17	Yellow Pigment	6486-23-3					0.1	1.5	1.9		
18	Yellow Pigment	6358-37-8				2.8		0.2	0.5		
19	Green Pigment	1328-53-6								3.7	
20	Blue Pigment	147-14-8							0.1		0.1
21	SUM		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**SAFFTY DATA SHEET (91/155/EEC)****Product**

	Ingredients	CAS No.	Composition(in % by weight)								
			10 (#48)	11 (#47)	12 (#51)	13 (#69)	14 (#72)	15 (#80)	16 (82)	17 (#94)	18MG (#130)
1	Hydroxy Ethylcellulose	9004-62-0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2	Dithio-2,2'-bis (benzmenthylamide)	2527-58-4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	Propylene Glycol	57-55-6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
4	Dispersing agent N	9084-06-4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
5	Calcium Carbonate	00471-34-1	14.2	14.4	13.7	14.9	14.4	12.8	14.5	12.9	11.3
6	Water	7732-15-5	42.2	42.0	43.7	45.7	46.5	44.8	46.6	41.0	47.2
7	Acylate Copolymer	25067-01-0 7732-15-5	26.0	26.0	27.4	27.8	24.0	28.5	27.1	25.9	26.4
8	Titanium Dioxide	13463-67-7	10.0	10.3	6.8	1.2	5.8	1.2		12.9	0.7
9	Brown Pigment	1309-37-1				2.0		3.5	1.3		
10	Red Pigment	2786-76-7				0.2					
11	Ocher Pigment	20344-49-4				0.9			1.0		
12	Orange Pigment	6505-28-8					1.9				
13	Pink Pigment	81-88-9					0.1				7.1
14	Violet Pigment	6358-30-1									
15	Black Pigment	1333-86-4	0.1	0.1	0.5	0.1	0.1	2.0	2.3	0.07	0.1
16	Yellow Pigment	6486-23-3			0.1						
17	Yellow Pigment	6358-37-8									
18	Green Pigment	1328-53-6								0.03	
19	Blue Pigment	147-14-8	0.3		0.6						
20	SUM		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**3. Possible hazards**

none if used for intended purpose

**4. First aid measures**

**INHALATION:** It is unlikely that emergency treatment will be required. Remove from exposure. Get medical attention, if needed.

**SKIN CONTACT:** If adv erse effects occur, wash with soap or mild detergent and large amounts of water. Get medical attention, if needed.

**EYE CONTACT:** Wash with large amounts of water or normal saline until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

**INGESTION:** Contact local poison control center or physician immediately.

**SAFFTY DATA SHEET (91/155/EEC)****Product**

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**5. Fire-fighting measures**

Suitable extinguishing media: Water, carbon dioxide or chemical foam

Special hazards from Its combustion products:

Avoid inhalation of material or combustion by-products.

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**6. Measures for accidental spillage**

OCCUPATIONAL RELEASE:

Collect spilled material in appropriate container for disposal.

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**7. Handling and storage**

**STORAGE:** Store and handle in accordance with all current regulations and standards.

See original container for storage recommendations.

**HANDLING:** Use methods to minimize dust.

**Waste Disposal Method:** Waste disposal should be in accordance with existing federal, state & local environmental Regulations.

**Other Precautions** : None

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**8. Exposure Controls, Personal Protection**

LION ACRYLIC COLOR : No occupational exposure limits established.

VENTILATION: Based on available information, additional ventilation is not required.

EYE PROTECTION: Eye protection not required under normal conditions.

CLOTHING : Protective clothing is not required under normal conditions.

GLOVES : Protective gloves are not required under normal conditions.

RESPIRATOR : No respirator is required under normal conditions of use. Under conditions of Frequent use or heavy exposure, respiratory protection may be needed.

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**9. Physical and chemical properties**

Physical Form: Paste

Colour: 18

Odour: Odorless to mild

Melting Point : n /a

Flash Point : n /a

Self Ignition temperature: n /a

Density: 1.2±0.2 kg/m<sup>3</sup>

Solubility in /miscibility with water : soluble

**SAFFTY DATA SHEET (91/155/EEC)****Product****10. Stability and reactivity Stability**

REACTIVITY : Stable at normal temperatures and pressure.

CONDITIONS TO AVOID : None reported.

INCOMPATIBILITIES : Oxidizing materials.

HAZARDOUS DECOMPOSITION : Thermal decomposition products, oxides of carbon .

POLYMERIZATION: Will not polymerize.

**11. Declarations to toxicology**

Product has been certified as non-toxic.

Lion Acrylic Colors also got the ASTM F963, D-4236 & EN 71-3(1994) non-toxic approval.

**12. Remarks on ecology**

Biodedration : Not available

Fish Toxicity : Not available

**13. Disposal**

No special measures are needed us the waste is non-harzardous.

**14. Regulatios for transport**

UN-No.: None

Packing group: None

ADR/RID : None

Class: None

number: None

IMDG: None

EmS: None

MFA: None

Marine Pollutant : None

ICAO-TI und IATA-DGR: None

**15. Regulations according to directive 1999/45/EC**

Not classified as "dangerous" .

No labelling is required in accordance with to EEC directives.

**16. Further Information:**

This preparation contains hazardous ingredients with following R-phrases :

The specifications are supplied to the best of knowledge.

No claims may be derived from this data sheet.

This preparation contains no hazardous ingredients.

The SDS issues by laboratory of **LION PENCIL CO., LTD.**