

# Safety Data Sheet

according to OSHA Hazard Communication  
29 CFR Part 1910.1200



## Section 1. Identification

**Product Information:** LI-EP40RD

**Product Name:** **VANGUARD ECOPATH RED**

**Recommended Use:** High Durability Pedestrian and Vehicular Surface Coatings

**Application Method:** See CSI @ [www.VanguardOnline.com/downloads/](http://www.VanguardOnline.com/downloads/)

**Supplied by:** Vanguard ADA Systems  
18122 SR9 Suite F  
Snohomish WA. 98296

**Emergency Telephone:** Chemtrec: 800-424-9300

## Section 2. Hazard(s) identification

**EMERGENCY OVERVIEW:** Flammable liquid and vapor.

### GHS Classification

Eye Irrit. 2A, Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3 RTI

### Symbol(s) of Product



### Signal Word

Danger

### Possible Hazards

26% of the mixture consists of ingredients of unknown acute toxicity

### GHS HAZARD STATEMENTS

Eye Irritation, category 2A	H319	Causes serious eye irritation.
Flammable Liquid, category 2	H225	Highly flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.

### GHS LABEL PRECAUTIONARY STATEMENTS

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use dry chemical, carbon dioxide, or foam to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local rules and regulations.

**GHS SDS PRECAUTIONARY STATEMENTS**

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P363	Wash contaminated clothing before reuse.

**Section 3. Composition/Information on ingredients**

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
METHYL METHACRYLATE	80-62-6	10-25	GHS07	H315-317-335
N-BUTYL ACRYLATE	141-32-2	10-25	GHS02-GHS07	H226-315-317-319-332-335

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

**Section 4. First-aid measures**

**FIRST AID - INHALATION:** Move to fresh air.

**FIRST AID - SKIN CONTACT:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**FIRST AID - EYE CONTACT:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Rinse with plenty of water.

**FIRST AID - INGESTION:** Call a physician immediately. Do not induce vomiting without medical advice.

**Section 5. Fire-fighting measures**

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Remove all sources of ignition.

**SPECIAL FIREFIGHTING PROCEDURES:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**EXTINGUISHING MEDIA:** Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam

**Section 6. Accidental release measures**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Soak up with inert absorbent material and dispose of as hazardous waste.

## Section 7. Handling and storage



**HANDLING:** Containers of this material may be hazardous when emptied. Handle in accordance with good industrial hygiene and safety practice.

**STORAGE:** Harmful - Store away from foodstuffs. Keep containers tightly closed. Keep in a well-ventilated place. Keep locked-up. For Industrial Use Only

## Section 8. Exposure controls/personal protection

### Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
METHYL METHACRYLATE	50 ppm	100 ppm	100 ppm	NE
N-BUTYL ACRYLATE	2 ppm	NE	10 ppm	NE

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation  
Sk = Skin Sensitizer N.E. = Not Established

### Personal Protection



**RESPIRATORY PROTECTION:** In the case of respirable dust and/or fumes, use self-contained breathing apparatus.



**SKIN PROTECTION:** Impervious gloves.



**EYE PROTECTION:** Safety glasses with side-shields.



**OTHER PROTECTIVE EQUIPMENT:** Impervious clothing.



**HYGIENIC PRACTICES:** General industrial hygiene practice.

## Section 9. Physical and Chemical Properties

Boiling Range (F):	255 - 392	Vapor Density:	3.60
Odor:	Characteristic	Odor Threshold:	NE
Appearance:	Heavy Liquid	Evaporation Rate:	3.10
Solubility in Water:	NE	Specific Gravity:	1.678
Freeze Point:	NE	pH:	NE
Vapor Pressure (mm Hg):	40	Viscosity:	NE
Physical State:	Liquid	Flash Point, °C:	10, °F 50

(See section 16 for abbreviation legend)

CHEMICAL NAME	VAPOR DENSITY	EVAPORATION RATE	BOILING POINT	VP mmHg	at DEG. F
METHYL METHACRYLATE	3.60	3.10	212	40.00	68
N-BUTYL ACRYLATE	0.899	NA	298	4.30	68

## Section 10. Stability and reactivity

**STABILITY:** Stable under normal conditions. Stable if used as directed.

**CONDITIONS TO AVOID:** Avoid contact with skin, eyes and clothing.

**INCOMPATIBILITY:** Strong oxidizing agents. Keep away from strong oxidizing agents, heat and open flames.

**HAZARDOUS DECOMPOSITION PRODUCTS:** No decomposition if stored and applied as directed.

## Section 11. Toxicological information



### Practical Experiences

**EFFECT OF OVEREXPOSURE - INHALATION:** Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** Direct eye contact may cause irritation.

**EFFECT OF OVEREXPOSURE - INGESTION:** Harmful: may cause lung damage if swallowed.

**CARCINOGENICITY:** No Information

### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name according to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
80-62-6	METHYL METHACRYLATE	N.I.	N.I.	N.I.
141-32-2	N-BUTYL ACRYLATE	N.I.	N.I.	N.I.

N.I. - No Information

## Section 12. Ecological information

**ECOLOGICAL INFORMATION:** Do not contaminate ponds, waterways or ditches with chemical or used container.

## Section 13. Disposal considerations



### Product

**DISPOSAL METHOD:** Contact waste disposal services. Dispose of in accordance with all local, state and federal regulations.

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Soak up with inert absorbent material and dispose of as hazardous waste.

## Section 14. Transport information

**SPECIAL TRANSPORT PRECAUTIONS:** No Information

DOT Proper Shipping	Paint, Flammable Liquid	Packing Group:	II
DOT Technical Name:	Paint	Hazard SubClass:	No Information
DOT Hazard Class:	3	Resp. Guide Page:	128
DOT UN/NA Number:	1263		

**Section 15. Regulatory information****U.S. Federal Regulations:****CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

**SARA SECTION 312:**

<u>Chemical Name</u>	<u>CAS-No.</u>
METHYL METHACRYLATE	80-62-6
N-BUTYL ACRYLATE	141-32-2

**SARA SECTION 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
METHYL METHACRYLATE	80-62-6
N-BUTYL ACRYLATE	141-32-2
1-METHYL-2-PYRROLIDONE	872-50-4
XYLENE	1330-20-7
ETHYL BENZENE	100-41-4

**TOXIC SUBSTANCES CONTROL ACT:**

All components of this material are listed on the US Toxic Substance Control Act (TSCA inventory).

**U.S. State Regulations:****NEW JERSEY RIGHT-TO-KNOW:**

The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS-No.</u>
AASHTO TYPE I, UNCOATED BEADS	MIXTURE
LIMESTONE	1317-65-3

**PENNSYLVANIA RIGHT-TO-KNOW**

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS-No.</u>
AASHTO TYPE I, UNCOATED BEADS	MIXTURE
LIMESTONE	1317-65-3
AGGREGATE	MIXTURE
BUTYL METHACRYLATE COPOLYMER	28262-63-7

**CALIFORNIA PROPOSITION 65 CARCINOGENS**

The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Chemical Name</u>	<u>CAS-No.</u>
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ETHYL BENZENE

100-41-4

**CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS**

The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

**Chemical Name**

1-METHYL-2-PYRROLIDONE

**CAS-No.**

872-50-4

**International Regulations: As follows -****CANADIAN WHMIS:**

All components of this material are listed on the Domestic Substance List.

WHMIS Class: No Information

**Section 16. Other information, including date of preparation of the last revision**

Revision Date: 9/27/2024 Supercedes Date: 4/23/2021

Reason for revision: Product Composition Changed  
 Substance and/or Product Properties Changed in Section(s):  
 01 - Product Information  
 02 - Hazards Identification  
 08 - Exposure Controls/Personal Protection  
 09 - Physical & Chemical Information  
 Substance Chemical Name Changed  
 Substance Hazardous Flag Changed  
 Substance Hazard Threshold % Changed  
 Revision Statement(s) Changed

Datasheet produced by: Regulatory Department

**HMIS Ratings:**

Health:	2	Flammability:	3	Reactivity:	2	Personal Protection:	X
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Volatile Organic Compounds, gr/ltr: 9

**Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

H226 Flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.

**Icons for GHS Pictograms shown in Section 3 describing each ingredient:**

GHS02



GHS07



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

No Information