

# Safety Data Sheet

according to OSHA Hazard  
Communication 29 CFR Part 1910.1200



## Section 1. Identification

**Product Information:** LI-B35BLK

**Product Name:** Vanguard Base Black

**Recommended Use:** Surface Coatings and TWSI Applications

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

**Supplied by:** Vanguard ADA Systems  
18122 SR 9, Suite F  
Snohomish WA 98296

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

## Section 2. Hazard(s) identification

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

### GHS Classification

Flam. Liq. 1, Skin Irrit. 2, Skin Sens. 1

### Symbol(s) of Product



### Signal Word

Danger

### Possible Hazards

17% of the mixture consists of ingredients of unknown acute toxicity

### GHS HAZARD STATEMENTS

Flammable Liquid, category 1	H224	Extremely flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.

### GHS LABEL PRECAUTIONARY STATEMENTS

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
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.

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.
P370+P378	In case of fire: Use dry chemical, carbon dioxide, or foam to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
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	2.5-10	GHS02-GHS07	H225-315-317-335
N-BUTYL ACRYLATE	141-32-2	2.5-10	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. Oxygen or artificial respiration if needed.

**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:** 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

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
METHYL METHACRYLATE	50	100	100	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

<b>Boiling Range:</b>	0 - 0	<b>Vapor Density:</b>	3.60
<b>Odor:</b>	Characteristic	<b>Odor Threshold:</b>	No Information
<b>Appearance:</b>	Heavy Black Liquid	<b>Evaporation Rate:</b>	3.10
<b>Solubility in Water:</b>	NE	<b>Specific Gravity:</b>	1.942
<b>Freeze Point:</b>	NE	<b>pH:</b>	NE
<b>Vapor Pressure:</b>	40.00	<b>Viscosity:</b>	NE
<b>Physical State:</b>	Liquid	<b>Flash Point, °C:</b>	10, °F 50

(See section 16 for abbreviation legend)

<u>CHEMICAL NAME</u>	<u>VAPOR DENSITY</u>	<u>EVAPORATION RATE</u>	<u>BOILING POINT</u>	<u>VP mmHg</u>	<u>at DEG. F</u>
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 Name: Paint, Flammable Liquid  
DOT Technical Name: Paint  
DOT Hazard Class: 3  
DOT UN/NA Number: 1263

Packing Group: II  
Hazard SubClass: No Information  
Resp. Guide Page: 128

## 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

#### 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 (100%)	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>
LIMESTONE	1317-65-3
AASHTO TYPE I, UNCOATED BEADS	MIXTURE
AGGREGATE	MIXTURE

#### 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>
LIMESTONE	1317-65-3
AASHTO TYPE I, UNCOATED BEADS	MIXTURE
AGGREGATE	MIXTURE
BUTYL METHACRYLATE COPOLYMER	28262-63-7

#### CALIFORNIA PROPOSITION 65 CARCINOGENS



### WARNING

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:** 2/7/2021 **Supersedes Date:** 2/14/2019

**Reason for revision:** Substance and/or Product Properties Changed in Section(s):

02 - Hazards Identification  
 08 - Exposure Controls/Personal Protection  
 09 - Physical & Chemical Information  
 15 - Regulatory Information  
 Substance Chemical Name Changed  
 Substance Hazard Threshold % Changed  
 Revision Statement(s) Changed

**Datasheet produced by:** Regulatory Department

**HMIS Ratings:**

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

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

H225 Highly flammable liquid and vapour.  
 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

# Safety Data Sheet

according to OSHA Hazard  
Communication 29 CFR Part 1910.1200



## Section 1. Identification

**Product Information:** LI-B35WHT

**Product Name: Recommended** Vanguard Base White

**Use: Application Method:** Surface Coatings and TWSI Applications

**Supplied by:** See CSI @ [www.vanguardonline.com/downloads/](http://www.vanguardonline.com/downloads/)

Vanguard ADA Systems  
18122 SR 9, Suite F  
Snohomish WA 98296

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

## Section 2. Hazard(s) identification

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

### GHS Classification

Flam. Liq. 1, Repr. 2, Skin Irrit. 2, Skin Sens. 1

### Symbol(s) of Product



### Signal Word

Danger

### Possible Hazards

16% of the mixture consists of ingredients of unknown acute toxicity

### GHS HAZARD STATEMENTS

Flammable Liquid, category 1	H224	Extremely flammable liquid and vapour.
Reproductive Toxicity, category 2	H361	Suspected of damaging fertility or the unborn child.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.

### GHS LABEL PRECAUTIONARY STATEMENTS

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.

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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
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.
P370+P378	In case of fire: Use dry chemical, carbon dioxide, or foam to extinguish.
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>
TITANIUM DIOXIDE	13463-67-7	2.5-10	GHS06-GHS08	H331-361
METHYL METHACRYLATE	80-62-6	2.5-10	GHS02-GHS07	H225-315-317-335
N-BUTYL ACRYLATE	141-32-2	2.5-10	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. Oxygen or artificial respiration if needed.

**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:** 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

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
TITANIUM DIOXIDE	N.E.	N.E.	N.E.	N.E.
METHYL METHACRYLATE	50	100	100	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

<b>Boiling Range:</b>	0 - 0	<b>Vapor Density:</b>	3.60
<b>Odor:</b>	Characteristic	<b>Odor Threshold:</b>	NE
<b>Appearance:</b>	Heavy White Liquid	<b>Evaporation Rate:</b>	3.10
<b>Solubility in Water:</b>	NE	<b>Specific Gravity:</b>	1.985
<b>Freeze Point:</b>	NE	<b>pH:</b>	NE
<b>Vapor Pressure:</b>	40.00	<b>Viscosity:</b>	NE
<b>Physical State:</b>	Liquid	<b>Flash Point, °C:</b>	10, °F 50

(See section 16 for abbreviation legend)

<u>CHEMICAL NAME</u>	<u>VAPOR DENSITY</u>	<u>EVAPORATION RATE</u>	<u>BOILING POINT</u>	<u>VP mmHg</u>	<u>at DEG. F</u>
TITANIUM DIOXIDE	NE	NE	0	NE	NE

METHYL METHACRYLATE	3.600	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>
13463-67-7	TITANIUM DIOXIDE	10000	10000	6.80
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  
DOT Technical Name:      Paint  
DOT Hazard Class:      3  
DOT UN/NA Number:      1263

Packing Group:      II  
Hazard SubClass:      No Information  
Resp. Guide Page:      128

## 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), Reproductive toxicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization

#### 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 (100%)	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>
LIMESTONE	1317-65-3
AASHTO TYPE I, UNCOATED BEADS	MIXTURE
AGGREGATE	MIXTURE

#### 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>
LIMESTONE	1317-65-3
AASHTO TYPE I, UNCOATED BEADS	MIXTURE
AGGREGATE	MIXTURE
BUTYL METHACRYLATE COPOLYMER	28262-63-7

**CALIFORNIA PROPOSITION 65 CARCINOGENS****WARNING**

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>
TITANIUM DIOXIDE	13463-67-7
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.

<u>Chemical Name</u>	<u>CAS-No.</u>
1-METHYL-2-PYRROLIDONE	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**

<b>Revision Date:</b>	2/5/2021	<b>Supersedes Date:</b>	2/14/2019
<b>Reason for revision:</b>	Product Composition Changed Substance and/or Product Properties Changed in Section(s): 09 - Physical & Chemical Information 15 - Regulatory Information Revision Statement(s) Changed		
<b>Datasheet produced by:</b>	Regulatory Department		

**HMIS Ratings:**

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

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.

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

GHS02



**GHS06**



**GHS07**



**GHS08**



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

No Information

# Safety Data Sheet

according to OSHA Hazard  
Communication 29 CFR Part 1910.1200



## Section 1. Identification

**Product Information:** LI-B35YLW

**Product Name:** Vanguard Base Yellow

**Recommended Use:** Surface Coatings and TWSI Applications

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

**Supplied by:** Vanguard ADA Systems  
18122 SR 9, Suite F  
Snohomish WA 98296

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

## Section 2. Hazard(s) identification

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

### GHS Classification

Flam. Liq. 1, Skin Irrit. 2, Skin Sens. 1

### Symbol(s) of Product



### Signal Word

Danger

### Possible Hazards

17% of the mixture consists of ingredients of unknown acute toxicity

### GHS HAZARD STATEMENTS

Flammable Liquid, category 1	H224	Extremely flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.

### GHS LABEL PRECAUTIONARY STATEMENTS

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
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.

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.
P370+P378	In case of fire: Use dry chemical, carbon dioxide, or foam to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
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	2.5-10	GHS02-GHS07	H225-315-317-335
N-BUTYL ACRYLATE	141-32-2	2.5-10	GHS02-GHS07	H226-315-317-319-332-335
TITANIUM DIOXIDE	13463-67-7	1.0-2.5	GHS06-GHS08	H331-361

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:** 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

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
METHYL METHACRYLATE	50	100	100	NE
N-BUTYL ACRYLATE	2 ppm	NE	10 ppm	NE
TITANIUM DIOXIDE	N.E.	NE	NE	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:** No Information



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

## Section 9. Physical and Chemical Properties

<b>Boiling Range:</b>	0 - 0	<b>Vapor Density:</b>	3.60
<b>Odor:</b>	Characteristic	<b>Odor Threshold:</b>	NE
<b>Appearance:</b>	Heavy Yellow Liquid	<b>Evaporation Rate:</b>	3.10
<b>Solubility in Water:</b>	NE	<b>Specific Gravity:</b>	1.907
<b>Freeze Point:</b>	NE	<b>pH:</b>	NE
<b>Vapor Pressure:</b>	40.00	<b>Viscosity:</b>	NE
<b>Physical State:</b>	Liquid	<b>Flash Point, °C:</b>	10, °F 50

(See section 16 for abbreviation legend)

<u>CHEMICAL NAME</u>	<u>VAPOR DENSITY</u>	<u>EVAPORATION RATE</u>	<u>BOILING POINT</u>	<u>VP mmHg</u>	<u>at DEG. F</u>
METHYL METHACRYLATE	3.600	3.10	212	40.00	68
N-BUTYL ACRYLATE	0.899	NA	298	4.30	68
TITANIUM DIOXIDE	NE	NE	0	NE	NE

## Section 10. Stability and reactivity

**STABILITY:** Stable under normal conditions.

**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 used 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.
13463-67-7	TITANIUM DIOXIDE	10000	10000	6.80

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 Name: Paint, Flammable Liquid  
DOT Technical Name: Paint  
DOT Hazard Class: 3  
DOT UN/NA Number: 1263

Packing Group: II  
Hazard SubClass: No Information  
Resp. Guide Page: 128

## 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

#### 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 (100%)	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>
LIMESTONE	1317-65-3
AASHTO TYPE I, UNCOATED BEADS	MIXTURE
AGGREGATE	MIXTURE

#### 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>
LIMESTONE	1317-65-3
AASHTO TYPE I, UNCOATED BEADS	MIXTURE
AGGREGATE	MIXTURE
BUTYL METHACRYLATE COPOLYMER	28262-63-7

#### CALIFORNIA PROPOSITION 65 CARCINOGENS



### WARNING

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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TITANIUM DIOXIDE  
ETHYL BENZENE13463-67-7  
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:** 11/19/2020 **Supersedes Date:** 5/19/2017

**Reason for revision:** Revision Description Changed  
Product Composition Changed  
Substance and/or Product Properties Changed in Section(s):  
01 - Product Information  
09 - Physical & Chemical Information  
15 - Regulatory Information  
16 - Other Information  
Revision Statement(s) Changed

**Datasheet produced by:** Regulatory Department

**HMIS Ratings:**

<b>Health:</b>	2	<b>Flammability:</b>	3	<b>Reactivity:</b>	2	<b>Personal Protection:</b>	X
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**Volatile Organic Compounds, gr/ltr:** 10

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

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H361 Suspected of damaging fertility or the unborn child.

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

GHS02



GHS06



**GHS07**



**GHS08**



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

No Information

# Safety Data Sheet

according to OSHA Hazard Communication  
29 CFR Pat 1910.1200



## Section 1. Identification

**Product Information:** LI-B50RR

**Product Name:** Vanguard Reducing Solution

**Recommended Use:** Surface Coating and TWSI Applications

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

**Supplied by:** Vanguard ADA Systems  
18122 SR 9, Suite F  
Snohomish WA 98296

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

## Section 2. Hazard(s) identification

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

### GHS Classification

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

### Symbol(s) of Product



### Signal Word

Danger

### Possible Hazards

99% of the mixture consists of ingredients of unknown acute toxicity

### GHS HAZARD STATEMENTS

Carcinogenicity, category 1A	H350	May cause cancer.
Flammable Liquid, category 1	H224	Extremely flammable liquid and vapour.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.

### GHS LABEL PRECAUTIONARY STATEMENTS

P201	Obtain special instructions before use.
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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
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.
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	50-75	GHS02-GHS07	H225-315-317-335
2-ETHYLHEXYL ACRYLATE	103-11-7	25-50	GHS07	H227-315-317-335

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:** Carbon Dioxide, Dry Chemical

**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

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
METHYL METHACRYLATE	50	100	100	NE
2-ETHYLHEXYL ACRYLATE	3 mg/m <sup>3</sup>	NE	NE	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. Remove and wash contaminated clothing before re-use.

## Section 9. Physical and Chemical Properties

<b>Boiling Range:</b>	0 - 0	<b>Vapor Density:</b>	6.40
<b>Odor:</b>	Characteristic	<b>Odor Threshold:</b>	NE
<b>Appearance:</b>	Liquid	<b>Evaporation Rate:</b>	3.10
<b>Solubility in Water:</b>	NE	<b>Specific Gravity:</b>	0.970
<b>Freeze Point:</b>	NE	<b>pH:</b>	NE
<b>Vapor Pressure:</b>	40.00	<b>Viscosity:</b>	NE
<b>Physical State:</b>	Liquid	<b>Flash Point, °C:</b>	10, °F 50

(See section 16 for abbreviation legend)

<u>CHEMICAL NAME</u>	<u>VAPOR DENSITY</u>	<u>EVAPORATION RATE</u>	<u>BOILING POINT</u>	<u>VP mmHg</u>	<u>at DEG. F</u>
METHYL METHACRYLATE	3.60	3.10	212	40.00	68
2-ETHYLHEXYL ACRYLATE	6.40	NA	419	0.20	68

## Section 10. Stability and reactivity

**STABILITY:** Stable under normal conditions.

**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:** None when used 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. Harmful 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.
103-11-7	2-ETHYLHEXYL 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: Resin Solution  
 DOT Technical Name: Resin  
 DOT Hazard Class: 3  
 DOT UN/NA Number: 1866

Packing Group: II  
 Hazard SubClass: No Information  
 Resp. Guide Page: 127



**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), Carcinogenicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Specific target organ toxicity (single or repeated exposure)

**SARA SECTION 312:**

<u>Chemical Name</u>	<u>CAS-No.</u>
METHYL METHACRYLATE	80-62-6
2-ETHYLHEXYL ACRYLATE	103-11-7

**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

**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.

No NJ Right-To-Know components exist in this product.

**PENNSYLVANIA RIGHT-TO-KNOW**

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

No PA Right-To-Know components exist in this product.

**CALIFORNIA PROPOSITION 65 CARCINOGENS**

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

No Proposition 65 Carcinogens exist in this product.

**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.

No Proposition 65 Reproductive Toxins exist in this product.

**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: 11/19/2020 Supersedes Date: 10/26/2017

Reason for revision: Substance and/or Product Properties Changed in Section(s):

01 - Product Information  
 05 - Flammability Information  
 08 - Exposure Controls/Personal Protection  
 09 - Physical & Chemical Information  
 14 - Transportation Information  
 15 - Regulatory Information  
 16 - Other Information  
 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: 10

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

H225 Highly flammable liquid and vapour.  
 H227 Combustible liquid  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 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



*"Don't be left in the dark"*

**(888) 493-4569**

**www.allureglowusa.com**

## **SAFETY DATA SHEET**

### **SECTION 1—IDENTIFICATION**

**Trade Name:** Photoluminescent Pigment

**Chemical Composition and Make Up:** >90% Alkaline Earth Metal Aluminate CAS 12004-37-4

**Formula:** Proprietary

**Product Type:** Photoluminescent Pigments

**Producer:** Allureglow USA, LLC

**Address:** 9450 7th St., Unit H, Rancho Cucamonga, CA 91730

**Telephone:** 888-493-4569 **Fax:** 909-563-1855

### **SECTION 2—HAZARD (S)**

Ingredients Gas Number

ACGIH-TLV OSHA-PEL

As Inert Dust (Total) 2mg/m<sup>3</sup> ACGIH-TLV

3mg/m<sup>3</sup> OSHA-PEL.

### **SECTION 3—COMPOSITION/INFORMATION ON INGREDIENTS**

**CAS Number:** Al<sub>2</sub>O<sub>3</sub>[1344-28-1], SrCO<sub>3</sub>[1633-05-2],  
Eu<sub>2</sub>O<sub>3</sub>[1308-96-9], Dy<sub>2</sub>O<sub>3</sub>[1308-87-8]

### **SECTION 4—FIRST AID MEASURES**

**Skin:** Wash off with soap and water, wear gloves when handling.

**Eyes:** Flush with water for 5 minutes. If irritation occurs and persists, call a physician.

**Inhalation:** Remove to fresh air, seek medical attention if necessary.

**Ingestion:** Drink quantities of water and induce vomiting when ingesting little. Seek immediate medical attention when ingesting lots of it.

### **SECTION 5—FIRE-FIGHTING MEASURES**

**Flash Point:** N/AP

**Auto-ignition Temp:** N/AP

**Extinguishing Media:** Water, Foam, CO<sub>2</sub>, Dry Chemical

**Flammability Class:** N/AP

**Special Fire Fighting Procedure:** Product is not flammable. Fire fighters should wear self-contained breathing apparatus when fighting chemical fires. Use water spray to cool nearby containers and structures exposed to fire

**Unusual Fire and Explosion Hazards:** None known

## **SECTION 6—ACCIDENTAL RELEASE MEASURES**

**Spill or Leak Procedures:** Vacuum or sweep into properly labeled container for disposal, avoid the generation of dust.

**Waste Disposal Information:** Dispose in accordance with local, State and Federal Regulations.

## **SECTION 7—HANDLING AND STORAGE**

Store closed in cool dry area when handling or pouring, wear protective clothing, Avoid scatter into air.

**Other Precautions:** Maintain a schedule of regular housekeeping to insure cleanliness of work area.

This information is being supplied under Federal OSHA regulation 29 CFR 1910.1200. This product is considered to be a non-hazardous substance.

## **SECTION 8—EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Respiratory Equipment:** Local exhaust mechanical (general)

**Protective Gloves:** Plastic or Neoprene

**Eye Protection:** Chemical Glasses.

**Primary Routes of Exposure:** Inhalation, Eyes, Skin.

**Osha Pel:** 3mg/m<sup>3</sup>

**Acgin TLV:** 3mg/m<sup>3</sup>

**Effects of Overexposure:** May cause irritation to eyes, skin and mucous membranes

**Listed Carcinogen:** None

## **SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance & Odor:** Greenish to White Powder, No odor.

**Melting Point:** >1000 °C

**Vapor Pressure:** N/AP

**Vapor Density:** N/AP

**Solubility in Water:** 0.3 G/L at 20°C

**Specific Gravity:** 3.0~4.0

**Freezing Point:** N/AP

**Percent Volatile:** N/AP

**PH(% in water):** 10~11 at 25°C.

**Emergency Response Guide No:** N/AP.

## **SECTION 10—STABILITY AND REACTIVITY**

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Contact with acids.

**Incompatibility:** Contact with acids

**Hazardous Decomposition Products:** Will not occur

**Thermal stability:** Avoid heating up to 1700°C.

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** No information found.

**Condition:** Incompatibilities

## **SECTION 11----TOXICOLOGICAL INFORMATION**

Classified as non-toxic

## **SECTION 12----ECOLOGICAL INFORMATION**

N/A

**SECTION 13----DISPOSAL CONSIDERATIONS**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**SECTION 14----TRANSPORT INFORMATION**

Not regulated.

**SECTION 15----REGULATORY INFORMATION**

Current dust exposure limits to be found in latest version in health & safety executive guidance note EH40

**Sara 313 Title III:** Not listed.

**TSCA:** All ingredients in this product are listed on the U.S EPA TSCA inventory of chemical substances.

**If Regulated, proper Shipping Name:** N/AP

**Hazard Class:** N/AP

**Identification No:** N/AP

**Packing Group:** N/AP

**Label Required:** N/AP

**SECTION 16----OTHER INFORMATION**

Caution, maybe cause the irritation to skin, eyes etc

Use with adequate ventilation

Keep container closed

Avoid breathing dust

Wash after handling

This information is based on our present knowledge; however, this should not establish a valid legally contractual relationship

## CATALYST SYSTEMS

U S Chemical & Plastics  
Alco Industries Companies  
PO Box 88  
2290 Zimmerman Rd SE  
Gnadenhutten, OH 44629  
PH: 740-254-4311

CHEMTREC: 1-800-424-9300  
CANUTEC: 1-613-996-6666  
(For Canada call collect)

### SECTION I - IDENTIFICATION OF PRODUCT

**PRODUCT NAME:** CREAM HARDENER  
**PRODUCT CODE:** 27640/White, 27641/Red, 27642/Green, 27643/Blue,  
27645/Raspberry, 28050/Black, 28070/Red Raspberry  
28070/Lt. Red additional product codes on page 4  
**SYNONYM/CROSS REFERENCE:** Polyester Cream Hardener/Polyester Catalyst,  
Benzoyl Peroxide Paste  
**SCHEDULE B NUMBER:** 3815.90.0000-0

### SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	WGT%	CAS #	TLV/PEL
Benzoyl Peroxide	47.5-50.0	94-36-0	Combustible when dry: TLV 5 mg/m <sup>3</sup> *

\* Refer to 29 CFR 1910.1000, subpart Z.  
Also see TLV for Chemical Substances and Physical Agents in the Work Environment (ACGIH)

### SECTION III - PHYSICAL DATA

**APPEARANCE:** Red, White, Blue, Green or Raspberry Paste  
**SPECIFIC GRAVITY:** 1.20  
**VAPOR PRESSURE (mmHG):** N/E  
**BOILING POINT:** Decomposes  
**VAPOR DENSITY: (Air = 1)** > 1  
**EVAPORATION RATE (Ethyl Ether = 1):** <1  
**VOLATILES BY WEIGHT:** 10-20%  
**SOLUBILITY IN WATER:** Insoluble  
**VOC:** Grams/Liter = Nil  
Lbs/Gallon = Nil

### SECTION IV - FIRE AND EXPLOSION DATA

**FLASH POINT:** 184°F/ 84°C Seta Flash Closed cup  
**LOWER FLAMMABLE LIMIT %:** N/E  
**UPPER FLAMMABLE LIMIT %:** N/E  
**FIRE EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam  
**SPECIAL FIRE FIGHTING PROCEDURES:** Fight like a fuel oil fire. Cool fire exposed containers with water spray. Firefighter should wear OSHA/NIOSH approved self-contained breathing apparatus.  
**UNUSUAL FIRE AND EXPLOSION HAZARD:** Closed containers exposed to high temperatures, such as fire conditions may rupture.

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## SECTION V - HEALTH HAZARD/TOXICOLOGICAL PROPERTIES

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### **OVEREXPOSURE EFFECTS:**

#### **ACUTE EFFECTS:**

**EYES:** Contact with eyes can cause irritation, redness, tearing, blurred vision, and/or swelling.

**SKIN:** Contact with skin can cause irritation, (minor itching, burning and/or redness), Dermatitis, defatting may be readily absorbed through the skin.

**INHALATION:** Inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and/or asphyxiation. Aspiration of material into lungs may result in chemical pneumonitis which can be fatal.

**INGESTION:** Ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

#### **CHRONIC EFFECTS:**

Overexposure to this material has apparently been known to cause the following effects in lab animals: skin damage and appendages.

**CARCINOGEN:** YES ☐ NO ☒

**TERATOGEN:** YES ☐ NO ☒

**MUTAGEN:** YES ☐ NO ☒

Benzoyl Peroxide has caused tumorigenic effects in laboratory animals.

**PRIMARY ROUTES OF EXPOSURE:** skin, inhalation

### **FIRST AID:**

**INHALATION:** If inhaled, remove victim from exposure to a well-ventilated area. Make them comfortably warm, but not hot. Use oxygen or artificial respiration as required. Consult a physician.

**SKIN:** For skin contact, wash promptly with soap and excess water.

**EYES:** For eye contact, flush promptly with excess water for at least fifteen minutes. Consult a physician.

**INGESTION:** If ingested, do not induce vomiting. Give victim a glass of water. Call a physician immediately.

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## SECTION VI - REACTIVITY DATA

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**STABILITY:** Stable

**CONDITIONS TO AVOID:** Open flames, sparks, heat, electrical and static discharge.

**INCOMPATIBILITY MATERIALS TO AVOID:** Strong acids, alkalis, oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide, Carbon Monoxide and Carbon.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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## SECTION VII - SPILL AND DISPOSAL PROCEDURE

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**SPILLS, LEAK OR RELEASE:** Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapor. Contain spill with inert absorbent.

**WASTE DISPOSAL:** Dispose of in accordance with local, state, and federal regulations.

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## SECTION VIII - PROTECTION INFORMATION

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**RESPIRATORY PROTECTION:** If component TLV limits are exceeded, use NIOSH/MSHA approved respirator to remove vapors. Use an air-supplied respirator if necessary.

**VENTILATION:** Use adequate ventilation in volume and pattern to keep TLV/PEL below recommended levels. Explosion-proof ventilation may be necessary.

**PROTECTIVE GLOVES:** To prevent prolonged exposure use rubber gloves; solvents may be absorbed through the skin

**EYE PROTECTION:** Safety Glasses or goggles with splash guards or side shields.

**OTHER PROTECTIVE EQUIPMENT:** Wear protective clothing as required to prevent skin contact.

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## SECTION IX - HANDLING AND STORAGE PRECAUTIONS

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**STORAGE AND HANDLING:** Use with adequate ventilation. Avoid contact with eyes and skin. Avoid breathing vapors. Do not store the product above 100°F/38°C. Do not flame, cut, braze weld or melt empty containers. Keep the product away from heat, open flame, and other sources of ignition. Avoid contact with strong acids, alkalis and oxidizers.

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## SECTION X - ADDITIONAL INFORMATION

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**SHIPPING INFORMATION:** Please comply with DOT regulations in USA

HMIS RATING:	Health	2	4 = Extreme
	Fire	2	3 = High
	Reactivity	2	2 = Moderate
			1 = Slight
			0 = Insignificant

Personal Protection - See Section VIII

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### CALIFORNIA PROPOSITION 65:

Trace amounts of some chemicals known to the State of California to cause cancer, birth defects or other reproductive harm may be present in this product.

### SECTION 313 SUPPLIER NOTIFICATION:

This product contains the following toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CHEMICAL NAME</u>	<u>CAS</u>	<u>% BY WGT</u>
Benzoyl Peroxide	94-36-0	47.5-50.0%

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS's THAT ARE COPIED AND DISTRIBUTED FOR THIS CHEMICAL

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## ABBREVIATIONS

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IARC = International Agency for Research on Cancer  
ACGIH = American Conference of Governmental Industrial Hygienists  
NIOSH = National Institute of Occupational Safety and Health  
TLV = Threshold Limit Value  
PEL = Permissible Emission Level  
DOT = Department of Transportation  
NTP = National Toxicology Program  
N/AV = Not Available



N/AP = Not Applicable  
N/E = Not Established  
N/D = Not Determined

NOTE: ADDITIONAL PART NUMBERS:

Bulk Red	27641 27007, 27010, 27020, 27110, 27120, 27125, 27169, 27170, 27601, 27604, 27607, 27610, 27616, 27620, 27626, 27632, 27649, 27663, 27670, 27673, 27684, 27690-1, 27697
Bulk Lt. Red	28070 27030, 27032, 27034, 27171, 27613, 27617, 27635, 27656, 27694, 27695, 28143, 28148, 28153
Bulk Light Blue	27642 27131, 27615
Bulk Blue	27643 27012, 27022, 27112, 27122, 27160, 27603, 27606, 27609, 27612, 27622, 27628, 27665, 27675, 28159
Bulk White	27647 27014, 27024, 27114, 27124, 27201, 27602, 27605, 27608, 27611, 27621, 27627, 27664, 27674
Bulk Raspberry	27645 27015, 27029, 27633
Bulk Black	28050 27042, 27669, 27685
Bulk Red Raspberry	28070 27171, 27635, 27656
Bulk Green	27642
Bulk Yellow	27636, 27637 27614

PREPARED BY: CATALYST SYSTEMS  
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SUPERSEDES: February 10, 2004  
REVISION: Format

The information in the Material Safety Data Sheet has been compiled from our experience and from data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of the safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the Company to make sure that the MSDS is the latest one issued.