



# All-Bond Universal

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision date: 6/6/2023 Supersedes: 7/17/2017 Version: 3.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : All-Bond Universal

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : For Rx Only

#### 1.3. Supplier

##### Manufacturer

BISCO, Inc.  
1100 W. Irving Park Rd.  
Schaumburg, IL , 60193  
U.S.A.  
T 1-800-247-3368 or 1-847-534-6000  
[sales@bisco.com](mailto:sales@bisco.com) - [www.bisco.com](http://www.bisco.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC - 24-Hour Hazmat Emergency Communications Center  
Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

|                                                                                               |      |                                     |
|-----------------------------------------------------------------------------------------------|------|-------------------------------------|
| Flammable liquids Category 2                                                                  | H225 | Highly flammable liquid and vapor   |
| Skin corrosion/irritation Category 2                                                          | H315 | Causes skin irritation              |
| Serious eye damage/eye irritation Category 2                                                  | H319 | Causes serious eye irritation       |
| Skin sensitization, Category 1                                                                | H317 | May cause an allergic skin reaction |
| Specific target organ toxicity - Single exposure, Category 3,<br>Respiratory tract irritation | H335 | May cause respiratory irritation    |

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H225 - Highly flammable liquid and vapor  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

Precautionary statements (GHS US)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.

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P241 - Use explosion-proof electrical, ventilating equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing fume, mist, vapors.  
P264 - Wash hands thoroughly after handling  
P272 - Contaminated work clothing must 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 and soap  
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/a doctor if you feel unwell  
P321 - Specific treatment (see First aid measures on this label)  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P363 - Wash contaminated clothing before reuse.  
P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, alcohol resistant 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.  
P501 - Dispose in a safe manner in accordance with local/national regulations

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                         | Product identifier  | %       | GHS US classification                                                                     |
|----------------------------------------------|---------------------|---------|-------------------------------------------------------------------------------------------|
| BisGMA                                       | CAS-No.: 1565-94-2  | 30 - 50 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335        |
| 2-Hydroxyethyl Methacrylate                  | CAS-No.: 868-77-9   | 10 - 30 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317                           |
| 10-Methacryloyloxydecyl Dihydrogen Phosphate | CAS-No.: 85590-00-7 | 5 - 10  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335                              |
| Ethyl 4-dimethylaminobenzoate                | CAS-No.: 10287-53-3 | 1 - 5   | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335 |

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\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Call a poison center/doctor/physician if you feel unwell.                                                                                                                      |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.                                                       |
| First-aid measures after skin contact | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.                          |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Call a poison center/doctor/physician if you feel unwell.                                                                                                                      |

#### 4.2. Most important symptoms and effects (acute and delayed)

|                                     |                                        |
|-------------------------------------|----------------------------------------|
| Symptoms/effects after inhalation   | : May cause respiratory irritation.    |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : May cause eye irritation.            |

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

|                              |                                                  |
|------------------------------|--------------------------------------------------|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--------------------------------------------------|

#### 5.2. Specific hazards arising from the chemical

|                                                  |                                      |
|--------------------------------------------------|--------------------------------------|
| Fire hazard                                      | : Highly flammable liquid and vapor. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.       |

#### 5.3. Special protective equipment and precautions for fire-fighters

|                                |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

|                      |                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume/mist/vapours. Avoid contact with skin and eyes. |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

##### 6.1.2. For emergency responders

|                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.2. Environmental precautions

Avoid release to the environment.

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### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid shock and friction. Keep away from naked flames/heat. Take precautions against electrostatic charges. Use spark-/explosionproof appliances and lighting system. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid breathing fume, mist, vapors. Avoid contact with skin and eyes.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

|                                                                          |  |
|--------------------------------------------------------------------------|--|
| <b>Hand protection:</b>                                                  |  |
| Protective gloves                                                        |  |
| <b>Eye protection:</b>                                                   |  |
| Safety glasses                                                           |  |
| <b>Skin and body protection:</b>                                         |  |
| Wear suitable protective clothing                                        |  |
| <b>Respiratory protection:</b>                                           |  |
| In case of insufficient ventilation, wear suitable respiratory equipment |  |

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### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Liquid            |
| Appearance                                      | : Clear liquid.     |
| Color                                           | : Pale Yellow       |
| Odor                                            | : Ethanol odor      |
| Odor threshold                                  | : No data available |
| pH                                              | : 2.5 - 3.5         |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : No data available |
| Boiling point                                   | : No data available |
| Flash point                                     | : 21.6 °C           |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Flammability (solid, gas)                       | : Not applicable.   |
| Vapor pressure                                  | : No data available |
| Relative vapor density at 20°C                  | : No data available |
| Relative density                                | : 0.9 - 1.1         |
| Solubility                                      | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature                       | : No data available |
| Decomposition temperature                       | : No data available |
| Viscosity, kinematic                            | : No data available |
| Viscosity, dynamic                              | : No data available |
| Explosion limits                                | : No data available |
| Explosive properties                            | : No data available |
| Oxidizing properties                            | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapor.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### 2-Hydroxyethyl Methacrylate (868-77-9)

|                    |                                                               |
|--------------------|---------------------------------------------------------------|
| LD50 oral rat      | 5564 mg/kg body weight (Rat, Experimental value, Oral)        |
| LD50 dermal rabbit | > 5000 mg/kg (24 h, Rabbit, Male, Experimental value, Dermal) |
| ATE US (oral)      | 5564 mg/kg body weight                                        |

#### Ethyl 4-dimethylaminobenzoate (10287-53-3)

|                 |                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------|
| LD50 oral rat   | > 2000 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))           |
| LD50 dermal rat | > 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 15 day(s)) |
| ATE US (oral)   | 500 mg/kg body weight                                                                                           |

Skin corrosion/irritation : Causes skin irritation.  
pH: 2.5 - 3.5

#### 2-Hydroxyethyl Methacrylate (868-77-9)

|    |                                     |
|----|-------------------------------------|
| pH | No data available in the literature |
|----|-------------------------------------|

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 2.5 - 3.5

#### 2-Hydroxyethyl Methacrylate (868-77-9)

|    |                                     |
|----|-------------------------------------|
| pH | No data available in the literature |
|----|-------------------------------------|

Respiratory or skin sensitization : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : May cause respiratory irritation.

#### 10-Methacryloyloxydecyl Dihydrogen Phosphate (85590-00-7)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

#### Ethyl 4-dimethylaminobenzoate (10287-53-3)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

#### BisGMA (1565-94-2)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

STOT-repeated exposure : Not classified

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| Ethyl 4-dimethylaminobenzoate (10287-53-3) |                                                                                                                                                                                           |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days)                 | 74 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)) |

Aspiration hazard : Not classified  
Viscosity, kinematic : No data available

| 2-Hydroxyethyl Methacrylate (868-77-9) |                                |
|----------------------------------------|--------------------------------|
| Viscosity, kinematic                   | 6.4 mm <sup>2</sup> /s (20 °C) |

| Ethyl 4-dimethylaminobenzoate (10287-53-3) |                |
|--------------------------------------------|----------------|
| Viscosity, kinematic                       | Not applicable |

Symptoms/effects after inhalation : May cause respiratory irritation.  
Symptoms/effects after skin contact : May cause an allergic skin reaction.  
Symptoms/effects after eye contact : May cause eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| 10-Methacryloyloxydecyl Dihydrogen Phosphate (85590-00-7) |             |
|-----------------------------------------------------------|-------------|
| NOEC chronic fish                                         | 48h 10 mg/l |

| 2-Hydroxyethyl Methacrylate (868-77-9) |                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]                        | > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value, GLP)             |
| EC50 - Crustacea [1]                   | 380 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)          |
| ErC50 algae                            | 836 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

| Ethyl 4-dimethylaminobenzoate (10287-53-3) |                                                                                                                                              |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]                            | 1.9 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value)               |
| EC50 - Crustacea [1]                       | 4.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         |
| EC50 72h - Algae [1]                       | 2.8 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Semi-static system, Fresh water, Experimental value, GLP) |
| EC50 72h - Algae [2]                       | 0.96 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)    |

| BisGMA (1565-94-2) |                           |
|--------------------|---------------------------|
| LC50 - Fish [1]    | 0.537 mg/l Source: ECOSAR |

### 12.2. Persistence and degradability

| 2-Hydroxyethyl Methacrylate (868-77-9) |                                                                              |
|----------------------------------------|------------------------------------------------------------------------------|
| Persistence and degradability          | Biodegradability in soil: no data available. Readily biodegradable in water. |

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| Ethyl 4-dimethylaminobenzoate (10287-53-3) |                                     |
|--------------------------------------------|-------------------------------------|
| Persistence and degradability              | Not readily biodegradable in water. |

| BisGMA (1565-94-2)            |                                               |
|-------------------------------|-----------------------------------------------|
| Persistence and degradability | Biodegradability in water: no data available. |

### 12.3. Bioaccumulative potential

| 2-Hydroxyethyl Methacrylate (868-77-9)          |                                                                                                         |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 0.42 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Bioaccumulative potential                       | Not bioaccumulative.                                                                                    |

| Ethyl 4-dimethylaminobenzoate (10287-53-3)      |                                                                                                 |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).                                                |

| BisGMA (1565-94-2)                              |                                    |
|-------------------------------------------------|------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.94 (Estimated value)             |
| Bioaccumulative potential                       | No bioaccumulation data available. |

### 12.4. Mobility in soil

| 2-Hydroxyethyl Methacrylate (868-77-9)                     |                                                              |
|------------------------------------------------------------|--------------------------------------------------------------|
| Surface tension                                            | No data available in the literature                          |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.164 - 0.708 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil                                             | Adsorbs into the soil.                                       |

| Ethyl 4-dimethylaminobenzoate (10287-53-3)                 |                                                                                                                                                                                   |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil                                             | Low potential for adsorption in soil.                                                                                                                                             |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : Flammable vapors may accumulate in the container.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

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### 14.1. UN number

|               |                  |
|---------------|------------------|
| DOT NA No     | : UN1170         |
| UN-No. (TDG)  | : Not applicable |
| UN-No. (IMDG) | : 1170           |
| UN-No. (IATA) | : 1170           |

### 14.2. UN proper shipping name

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Proper Shipping Name (DOT)  | : Ethanol solutions                         |
| Proper Shipping Name (TDG)  | : Not applicable                            |
| Proper Shipping Name (IMDG) | : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) |
| Proper Shipping Name (IATA) | : Ethanol solution                          |

### 14.3. Transport hazard class(es)

#### DOT

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (DOT) | : 3 |
| Hazard labels (DOT)              | : 3 |



#### TDG

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (TDG) | : Not applicable |
|----------------------------------|------------------|

#### IMDG

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IMDG) | : 3 |
| Hazard labels (IMDG)              | : 3 |



#### IATA

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IATA) | : 3 |
| Hazard labels (IATA)              | : 3 |



### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (DOT)  | : III            |
| Packing group (TDG)  | : Not applicable |
| Packing group (IMDG) | : III            |
| Packing group (IATA) | : III            |

### 14.5. Environmental hazards

|                   |                                           |
|-------------------|-------------------------------------------|
| Other information | : No supplementary information available. |
|-------------------|-------------------------------------------|

### 14.6. Special precautions for user

#### DOT

|             |          |
|-------------|----------|
| UN-No.(DOT) | : UN1170 |
|-------------|----------|

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|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Special Provisions (49 CFR 172.102)                          | : 24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III.<br>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.<br>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).<br>T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)<br>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 4b;150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : 242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 60 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 220 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DOT Vessel Stowage Location                                      | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### TDG

Emergency Response Guide (ERG) Number : 127

### IMDG

|                                    |                                                                                                                      |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Special provision (IMDG)           | : 144, 223                                                                                                           |
| Limited quantities (IMDG)          | : 5 L                                                                                                                |
| Excepted quantities (IMDG)         | : E1                                                                                                                 |
| Packing instructions (IMDG)        | : P001, LP01                                                                                                         |
| IBC packing instructions (IMDG)    | : IBC03                                                                                                              |
| Tank instructions (IMDG)           | : T2                                                                                                                 |
| Tank special provisions (IMDG)     | : TP1                                                                                                                |
| EmS-No. (Fire)                     | : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS                                                    |
| EmS-No. (Spillage)                 | : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS                                                                  |
| Stowage category (IMDG)            | : A                                                                                                                  |
| Properties and observations (IMDG) | : Colourless, volatile liquids.Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to 19% Miscible with water. |

### IATA

|                                              |                 |
|----------------------------------------------|-----------------|
| PCA Excepted quantities (IATA)               | : E1            |
| PCA Limited quantities (IATA)                | : Y344          |
| PCA limited quantity max net quantity (IATA) | : 10L           |
| PCA packing instructions (IATA)              | : 355           |
| PCA max net quantity (IATA)                  | : 60L           |
| CAO packing instructions (IATA)              | : 366           |
| CAO max net quantity (IATA)                  | : 220L          |
| Special provision (IATA)                     | : A3, A58, A180 |
| ERG code (IATA)                              | : 3L            |

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

|                                              |                    |         |
|----------------------------------------------|--------------------|---------|
| 10-Methacryloyloxydecyl Dihydrogen Phosphate | CAS-No. 85590-00-7 | 5 - 10% |
|----------------------------------------------|--------------------|---------|

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

##### CANADA

##### 10-Methacryloyloxydecyl Dihydrogen Phosphate (85590-00-7)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

##### 2-Hydroxyethyl Methacrylate (868-77-9)

Listed on the Canadian DSL (Domestic Substances List)

##### Ethyl 4-dimethylaminobenzoate (10287-53-3)

Listed on the Canadian DSL (Domestic Substances List)

##### BisGMA (1565-94-2)

Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 06/06/2023

| Full text of H-phrases |                                     |
|------------------------|-------------------------------------|
| H225                   | Highly flammable liquid and vapor   |
| H302                   | Harmful if swallowed                |
| H315                   | Causes skin irritation              |
| H317                   | May cause an allergic skin reaction |
| H319                   | Causes serious eye irritation       |

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### Full text of H-phrases

|      |                                  |
|------|----------------------------------|
| H335 | May cause respiratory irritation |
|------|----------------------------------|

### Indication of changes:

| Section | Changed item                           | Change   | Comments |
|---------|----------------------------------------|----------|----------|
|         | Supersedes                             | Added    |          |
|         | Revision date                          | Added    |          |
|         | Precautionary statements (GHS US)      | Modified |          |
|         | Hazard statements (GHS US)             | Modified |          |
|         | Issue date                             | Removed  |          |
| 2.1     | GHS-US classification                  | Modified |          |
| 3       | Composition/Information on ingredients | Modified |          |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.