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# Reliance Orthodontic Products, Inc.

# **Enhance Part B**

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 1/17/2018 Version: 8

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Enhance Part B
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: For RX only
1.3. Supplier	
Manufacturer Reliance Orthodontic Products, Inc. 1540 West Tilltasca, IL 60143 USA 630-773-4009, during normal business hours www.relianceorthodontics.com	horndale Ave.
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 mi	xture
GHS-US classification	
Flammable liquids Category 2 H225	Highly flammable liquid and vapor
Skin corrosion/irritation Category 2 H315	Causes skin irritation Causes serious eye irritation
Serious eye damage/eye irritation H319 Category 2	Causes senous eye initalion
Skin sensitization, Category 1 H317	May cause an allergic skin reaction
Specific target organ toxicity H335 (single exposure) Category 3	May cause respiratory irritation
Full text of H statements : see section 16	
2.2 CUC Label alements fractuation	
2.2. GHS Label elements, including preca GHS-US labeling	autionary statements
Hazard pictograms (GHS-US)	
	$\langle \langle \rangle \rangle \langle \rangle \rangle$
	$\checkmark$ $\checkmark$
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/sparks/open flames/hot surfaces No smoking
	P233 - Keep container tightly closed P240 - Ground/Bond container and receiving equipment
	P241 - Use explosion-proof ventilating equipment
	P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge
	P261 - Avoid breathing vapors
	P264 - Wash hands thoroughly after handling
	P271 - Use only outdoors or in a well-ventilated area P272 - Contaminated work clothing must not be allowed out of the workplace
	P280 - Wear eye protection, face protection, protective gloves
	P302+P352 - If on skin: Wash with plenty of water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse
	skin with water/shower
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing
	P312 - Call a doctor, a POISON CENTER if you feel unwell P321 - Specific treatment (see First aid measures on this label)

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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 (CO2), dry sand, foam, sand, ni extinguish	trogen to	
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 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
Ethanol	(CAS-No.) 64-17-5	10 - 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
2-Hydroxyethyl Methacrylate	(CAS-No.) 868-77-9	10 - 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

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 effect	s (acute and delayed)
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attention and spe	cial treatment, if necessary

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Treat symptomatically.
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SECT	SECTION 5: Fire-fighting measures		
5.1.	Suitable (and unsuitable) extinguishing media		
Suitab	e extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2.	Specific hazards arising from the chemical		
Fire ha	zard	: Highly flammable liquid and vapor.	
Reactiv	vity	: Highly flammable liquid and vapor.	
5.3.	Special protective equipment and precautions for fire-fighters		
Protec	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

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SECTION 6: Accidental release measures		
6.1. Personal precautions, protective e	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 mist, vapors. 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.		
6.3. Methods and material for contain	nent 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	: 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. Use only outdoors or in a well-ventilated area. Avoid breathing 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		

8.1. Control parameters	;		
Ethanol (64-17-5)			
ACGIH	ACGIH STEL (ppm)	1000 ppm (Ethanol; USA; Short time value; TLV - Adopted Value)	
2-Hydroxyethyl Methacrylate (868-77-9)			
Not applicable			

8.2.	Appropriate engineering controls	
Appropria	te engineering controls	: Ensure good ventilation of the work station.
Environm	ental exposure controls	: Avoid release to the environment.

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

Hand protection: Protective gloves Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable

respiratory equipment

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Clear liquid.	
Color	: Light yellow	
Odor	: Acetone odor / Alcohol odor.	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
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	: No data available	
Solubility	: No data available	
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.			
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		
: Not classified		
10740 mg/kg (Rat; Experimental value,Rat; Experimental value)		
> 16000 mg/kg (Rabbit; Literature study)		
10740 mg/kg body weight		

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2-Hydroxyethyl Methacrylate (868-77-9)	
LD50 oral rat	5564 mg/kg body weight (Rat; Experimental value)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Experimental value)
ATE US (oral)	5564 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Ethanol (64-17-5)	
LC50 fish 1	14200 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)
2-Hydroxyethyl Methacrylate (868-77-9)	
LC50 fish 1	227 mg/l (LC50; 96 h)
EC50 Daphnia 1	171 mg/l (NOEC; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
EC50 Daphnia 2	380 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	836 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)
Threshold limit algae 2	345 mg/l (EbC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)

### 12.2. Persistence and degradability

Ethanol (64-17-5)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	1.7 g O <sub>2</sub> /g substance	
ThOD	2.1 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.43	
2-Hydroxyethyl Methacrylate (868-77-9)		
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available. Adsorbs into the soil.	

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12.3. Bioaccumulative potential	
Ethanol (64-17-5)	
BCF fish 1	1 (BCF; Other; 72 h; Cyprinus carpio; Static system; Fresh water; Read-across)
Log Pow	-0.31 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
· · · · · · · · · · · · · · · · · · ·	
2-Hydroxyethyl Methacrylate (868-77-9) BCF fish 1	1.3 - 1.5 (BCF)
Log Pow	-0.55 - 0.49 (0.42; Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
Ethanol (64-17-5)	
Surface tension	0.022 N/m (20 °C)
Log Koc	Koc,PCKOCWIN v1.66; 1; Read-across
12.5. Other adverse effects	
Effect on the global warming	: No known effects from this product.
GWPmix comment	: No known effects from this product.
SECTION 13: Disposal considerat	ions
I3.1. Disposal methods	
Naste 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	on and a second s
ocorrow 14. manaport information	
Department of Transportation (DOT) In accordance with DOT	
Other information	: No supplementary information available.
<b>TDG</b>	
Transport by sea	
Air transport	
Transport document description (IATA)	: UN 1170, 3
JN-No. (IATA)	: 1170
Class (IATA)	: 3 - Flammable Liquids
SECTION 15: Regulatory informat	
15.1. US Federal regulations	
2-Hydroxyethyl Methacrylate (868-77-9)	
Listed on the United States TSCA (Toxic Su	ubstances Control Act) inventory
15.2. International regulations	
No additional information available	
EU-Regulations No additional information available	

National regulations No additional information available

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#### 15.3. US State regulations

#### No additional information available

### **SECTION 16: Other information**

#### Full text of H-phrases:

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

#### SDS US (GHS HazCom 2012)

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.