

Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier

3M[™] Unitek[™] Transbond[™] Mip Moisture Insensitive Primer (712-021, 712-025)

Product Identification Numbers

70-2020-8938-2 70-2020-8941-6

1.2. Recommended use and restrictions on use

Recommended use

Orthodontic use

1.3. Supplier's details

Address: KCI Medical India Private Limited, S - 327, Greater Kailash - II, New Delhi, Delhi, 110048, India

Telephone: 1-855-423-6725

E Mail: psops supportteam@solventum.com

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thereon.

1.4. Emergency telephone number

CHEMTREC 1-800-424-9300 OR 1-703-527-3887, Contract number# 1015211

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2A

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

2.2. Label elements

Signal Word

Danger

Symbols

Flame | Exclamation mark | Health Hazard |





HAZARD STATEMENTS:

H225
 H319
 H317
 H360
 Highly flammable liquid and vapour.
 Causes serious eye irritation.
 May cause an allergic skin reaction.
 May damage fertility or the unborn child.

PRECAUTIONARY STATEMENTS

Prevention:

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P280E Wear protective gloves.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P370 + P378 In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry

chemical or carbon dioxide to extinguish.

2.3. Other hazards

Skin corrosion/irritation class. not applied based on test data This material has been tested for skin corrosion/irritation and the test results do not meet the criteria for classification.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Ethanol	64-17-5	30 - 40
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	1565-94-2	15 - 25
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	10 - 20
2-Hydroxy-1,3-dimethacryloxypropane	1830-78-0	5 - 15
Copolymer of acrylic and itaconic bonds	25948-33-8	5 - 15
Water	7732-18-5	1 - 10
Diurethane dimethacrylate (UDMA)	Trade Secret	< 10
Diphenyliodonium hexafluorophosphate	58109-40-3	< 1
Ethylene dimethacrylate	97-90-5	< 1

Ethyl 4-dimethylaminobenzoate	10287-53-3	< 0.3

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eve contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If swallowed

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Allergic skin reaction (redness, swelling, blistering, and itching).

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

<u>Substance</u> Carbon monoxide. Carbon dioxide. Condition

During combustion. During combustion.

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Use PPE - Exposure Assessment

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air

respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Contain spill. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Do not get in eyes. Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from acids. Store away from oxidising agents.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Ethanol	64-17-5	ACGIH	STEL:1000 ppm	A3: Confirmed animal
				carcin.

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face

protection(s) are recommended:

Safety glasses with side shields.

Skin/hand protection

See Section 7.1 for additional information on skin protection.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

information on basic physical and chemical propertie		
Physical state	Liquid.	
Color	Colorless	
Odor	Slight Acrylate	
Odour threshold	No data available.	
pH	5	
Melting point/Freezing point: NA	Not applicable.	
Boiling point/Initial boiling point/Boiling range	78 ℃	
Flash point	21.1 °C [Test Method:Closed Cup]	
Evaporation rate	No data available.	
Flammability	Flammable Liquid: Category 2.	
Flammable Limits(LEL)	No data available.	
Flammable Limits(UEL)	No data available.	
Vapour pressure	No data available.	
Relative Vapor Density	No data available.	
Density	1.005 g/ml	
Relative density	1.005 [<i>Ref Std</i> :WATER=1]	
Water solubility	Negligible	
Solubility- non-water	No data available.	
Partition coefficient: n-octanol/water	No data available.	
Autoignition temperature	No data available.	
Decomposition temperature	No data available.	
Kinematic Viscosity	0 mm ² /sec	
Volatile organic compounds (VOC)	No data available.	
Percent volatile	No data available.	
VOC less H2O & exempt solvents	No data available.	
Molecular weight	No data available.	

Particle Characteristics Not applicable.	
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SECTION 10: Stability and reactivity

10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Sparks and/or flames.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin contact

Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Additional information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Ethanol	Dermal	Rabbit	LD50 > 15,800 mg/kg
Ethanol	Inhalation- Vapor (4 hours)	Rat	LC50 124.7 mg/l
Ethanol	Ingestion	Rat	LD50 17,800 mg/kg
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	Ingestion	Rat	LD50 > 11,700 mg/kg
2-Hydroxyethyl methacrylate (HEMA)	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-Hydroxyethyl methacrylate (HEMA)	Ingestion	Rat	LD50 5,564 mg/kg
2-Hydroxy-1,3-dimethacryloxypropane	Ingestion	Rat	LD50 > 2,000 mg/kg
Copolymer of acrylic and itaconic bonds	Ingestion	Rat	LD50 > 5,000 mg/kg
Copolymer of acrylic and itaconic bonds	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Diurethane dimethacrylate (UDMA)	Dermal	Rat	LD50 > 2,000 mg/kg
Diurethane dimethacrylate (UDMA)	Ingestion	Rat	LD50 > 5,000 mg/kg
Diphenyliodonium hexafluorophosphate	Ingestion	Rat	LD50 32 mg/kg
Ethyl 4-dimethylaminobenzoate	Dermal	Rat	LD50 > 2,000 mg/kg
Ethyl 4-dimethylaminobenzoate	Ingestion	Rat	LD50 > 2,000 mg/kg
Ethylene dimethacrylate	Dermal	Professio nal judgeme nt	LD50 estimated to be 2,000 - 5,000 mg/kg
Ethylene dimethacrylate	Ingestion	Rat	LD50 3,300 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	Rabbit	No significant irritation
Ethanol	Rabbit	No significant irritation
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	Rabbit	No significant irritation
2-Hydroxyethyl methacrylate (HEMA)	Rabbit	Minimal irritation
2-Hydroxy-1,3-dimethacryloxypropane	Rabbit	No significant irritation
Diurethane dimethacrylate (UDMA)	Rabbit	No significant irritation
Diphenyliodonium hexafluorophosphate	Rabbit	No significant irritation
Ethyl 4-dimethylaminobenzoate	Rabbit	No significant irritation
Ethylene dimethacrylate	Professio	Mild irritant
	nal	
	judgemen	
	t	

Serious Eye Damage/Irritation

Name	Species	Value
Ethanol	Rabbit	Severe irritant
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	In vitro data	No significant irritation
2-Hydroxyethyl methacrylate (HEMA)	Rabbit	Moderate irritant
2-Hydroxy-1,3-dimethacryloxypropane	In vitro data	Severe irritant
Diurethane dimethacrylate (UDMA)	Rabbit	No significant irritation
Diphenyliodonium hexafluorophosphate	Rabbit	Mild irritant
Ethyl 4-dimethylaminobenzoate	Rabbit	No significant irritation

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3MTM UnitekTM TransbondTM Mip Moisture Insensitive Primer (712-021, 712-025)

Ethylene dimethacrylate	Not	Moderate irritant
	available	

Sensitization:

Skin Sensitisation

Name	Species	Value
Ethanol	Human	Not classified
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	Mouse	Not classified
2-Hydroxyethyl methacrylate (HEMA)	Human	Sensitising
	and	
	animal	
2-Hydroxy-1,3-dimethacryloxypropane	Mouse	Not classified
Diurethane dimethacrylate (UDMA)	Multiple	Sensitising
	animal	
	species	
Ethyl 4-dimethylaminobenzoate		Not classified
Ethylene dimethacrylate	Guinea	Sensitising
	pig	

Respiratory Sensitisation

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Overall product	In Vitro	Not mutagenic
Ethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethanol	In vivo	Some positive data exist, but the data are not sufficient for classification
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	In Vitro	Not mutagenic
2-Hydroxyethyl methacrylate (HEMA)	In vivo	Not mutagenic
2-Hydroxyethyl methacrylate (HEMA)	In Vitro	Some positive data exist, but the data are not sufficient for classification
Diurethane dimethacrylate (UDMA)	In Vitro	Not mutagenic
Diphenyliodonium hexafluorophosphate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethyl 4-dimethylaminobenzoate	In vivo	Not mutagenic
Ethyl 4-dimethylaminobenzoate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethylene dimethacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Ethanol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Ethanol	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
Ethanol	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	Ingestion	Not classified for development	Rat	NOAEL 1,000	during gestation

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				mg/kg/day	
2-Hydroxyethyl methacrylate (HEMA)	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
2-Hydroxyethyl methacrylate (HEMA)	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
2-Hydroxyethyl methacrylate (HEMA)	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Diurethane dimethacrylate (UDMA)	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Diurethane dimethacrylate (UDMA)	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	56 days
Diurethane dimethacrylate (UDMA)	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Ethyl 4-dimethylaminobenzoate	Ingestion	Not classified for female reproduction	Rat	NOAEL 600 mg/kg/day	premating into lactation
Ethyl 4-dimethylaminobenzoate	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	premating into lactation
Ethyl 4-dimethylaminobenzoate	Ingestion	Toxic to male reproduction	Rat	NOAEL 50 mg/kg/day	53 days

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Ethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
Ethanol	Inhalation	central nervous system depression	Not classified	Human and animal	NOAEL not available	
Ethanol	Ingestion	central nervous system depression	Not classified	Multiple animal species	NOAEL not available	
Ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
Copolymer of acrylic and itaconic bonds	Ingestion	nervous system	Not classified	Rat	NOAEL 5,000 mg/kg	
Diphenyliodonium hexafluorophosphate	Inhalation	respiratory irritation	Not classified	Not available	Irritation Equivocal	
Ethylene dimethacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Ethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
Ethanol	Inhalation	hematopoietic system immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
Ethanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
Ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days
Bisphenol A diglycidyl	Ingestion	endocrine system	Not classified	Rat	NOAEL	90 days

ether dimethacrylate		hematopoietic			1.000	
(BISGMA)		system liver heart			mg/kg/day	
(BISGWA)		skin			mg/kg/day	
		gastrointestinal tract				
		bone, teeth, nails,				
		and/or hair				
		immune system				
		muscles nervous				
		system eyes				
		kidney and/or				
		bladder respiratory				
		system vascular				
		system				
Copolymer of acrylic and	Ingestion	endocrine system	Not classified	Rat	NOAEL 200	28 days
itaconic bonds		hematopoietic			mg/kg/day	
		system liver				
Copolymer of acrylic and	Ingestion	heart bone, teeth,	Not classified	Rat	NOAEL	28 days
itaconic bonds		nails, and/or hair			2,000	
		immune system			mg/kg/day	
		muscles nervous				
		system eyes kidney and/or				
		bladder respiratory				
		system vascular				
		system				
Diurethane dimethacrylate	Ingestion	liver kidney and/or	Not classified	Rat	NOAEL	56 days
(UDMA)	ingestion	bladder heart skin	Titot blassified	1440	1,000	o augs
(=======)		endocrine system			mg/kg/day	
		gastrointestinal tract				
		bone, teeth, nails,				
		and/or hair				
		hematopoietic				
		system immune				
		system muscles				
		nervous system				
		eyes respiratory				
		system vascular				
Ethyl 4-	Ingestion	system hematopoietic	Some positive data exist, but the	Rat	NOAEL 74	28 days
dimethylaminobenzoate	nigestion	system	data are not sufficient for	Kai	mg/kg/day	20 days
diffictifyfaffiffobelizoate		System	classification		mg/kg/day	
Ethyl 4-	Ingestion	liver heart	Not classified	Rat	NOAEL 900	28 days
dimethylaminobenzoate	190311011	endocrine system		1	mg/kg/day	
		gastrointestinal tract			3 3	
		bone, teeth, nails,				
		and/or hair				
		immune system				
		muscles nervous				
		system eyes				
		kidney and/or				
		bladder respiratory				
		system vascular				
		system				

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not

expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Ethanol	64-17-5	Fathead minnow	Experimental	96 hours	LC50	14,200 mg/l
Ethanol	64-17-5	Fish	Experimental	96 hours	LC50	11,000 mg/l
Ethanol	64-17-5	Green algae	Experimental	72 hours	EC50	275 mg/l
Ethanol	64-17-5	Water flea	Experimental	48 hours	LC50	5,012 mg/l
Ethanol	64-17-5	Green algae	Experimental	72 hours	ErC10	11.5 mg/l
Ethanol	64-17-5	Water flea	Experimental	10 days	NOEC	9.6 mg/l
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	1565-94-2	Common Carp	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100 mg/l
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	1565-94-2	Green algae	Endpoint not reached	96 hours	EC50	>100 mg/l
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	1565-94-2	Green algae	Experimental	96 hours	EC10	1.1 mg/l
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	Turbot	Analogous Compound	96 hours	LC50	833 mg/l
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 mg/l
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	Green algae	Experimental	72 hours	EC50	710 mg/l
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	Green algae	Experimental	72 hours	NOEC	160 mg/l
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	N/A	Experimental	16 hours	EC0	>3,000 mg/l
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	N/A	Experimental	18 hours	LD50	<98 mg per kg of bodyweight
2-Hydroxy-1,3- dimethacryloxypro pane	1830-78-0	Guppy	Experimental	96 hours	LC50	43.2 mg/l
Copolymer of acrylic and itaconic bonds	25948-33-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Diurethane dimethacrylate (UDMA)	Trade Secret	Green algae	Endpoint not reached	72 hours	ErC50	>100 mg/l
Diurethane	Trade Secret	Water flea	Experimental	48 hours	EC50	>100 mg/l

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dimethacrylate (UDMA)						
Diurethane dimethacrylate (UDMA)	Trade Secret	Zebra Fish	Experimental	96 hours	LC50	10.1 mg/l
Diurethane dimethacrylate (UDMA)	Trade Secret	Green algae	Endpoint not reached	72 hours	ErC10	>100 mg/l
Diphenyliodonium hexafluorophosphat e	58109-40-3	Water flea	Experimental	48 hours	EC50	9.5 mg/l
Ethylene dimethacrylate	97-90-5	Activated sludge	Experimental	3 hours	EC50	570 mg/l
Ethylene dimethacrylate	97-90-5	Green algae	Experimental	72 hours	ErC50	17.3 mg/l
Ethylene dimethacrylate	97-90-5	Water flea	Experimental	48 hours	EC50	44.9 mg/l
Ethylene dimethacrylate	97-90-5	Zebra Fish	Experimental	96 hours	LC50	15.95 mg/l
Ethylene dimethacrylate	97-90-5	Water flea	Experimental	21 days	NOEC	5.05 mg/l
Ethyl 4- dimethylaminobenz oate	10287-53-3	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
Ethyl 4- dimethylaminobenz oate	10287-53-3	Green algae	Experimental	72 hours	EL50	2.8 mg/l
Ethyl 4- dimethylaminobenz oate	10287-53-3	Rainbow trout	Experimental	96 hours	LC50	1.9 mg/l
Ethyl 4- dimethylaminobenz oate	10287-53-3	Water flea	Experimental	48 hours	EC50	4.5 mg/l
Ethyl 4- dimethylaminobenz oate	10287-53-3	Green algae	Experimental	72 hours	ErC10	0.71 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Ethanol	64-17-5	Experimental Biodegradation	14 days	BOD	89 %BOD/ThOD	OECD 301C - MITI test (I)
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	1565-94-2	Experimental Biodegradation	28 days	BOD	21 %BOD/ThOD	similar to OECD 301F
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	1565-94-2	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	29 days (t 1/2)	
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	Experimental Biodegradation	28 days	BOD	84 %BOD/COD	OECD 301D - Closed bottle test
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	Experimental Hydrolysis		Hydrolytic half-life basic pH	10.9 days (t 1/2)	OECD 111 Hydrolysis func of pH
2-Hydroxy-1,3- dimethacryloxypro pane	1830-78-0	Experimental Biodegradation	28 days	BOD	84 %BOD/ThOD	OECD 301F - Manometric respirometry
Copolymer of acrylic and itaconic bonds	25948-33-8	Data not available- insufficient	N/A	N/A	N/A	N/A
Diurethane	Trade Secret	Experimental	28 days	CO2 evolution	22 %CO2	OECD 301B - Modified

dimethacrylate (UDMA)		Biodegradation			evolution/THCO2 evolution (does not pass 10-day window)	sturm or CO2
Diphenyliodonium hexafluorophosphat e	58109-40-3	Data not available- insufficient	N/A	N/A	N/A	N/A
Ethylene dimethacrylate	97-90-5	Experimental Biodegradation	28 days	BOD	71.2 %BOD/ThOD (< 10 day window)	
Ethyl 4- dimethylaminobenz oate	10287-53-3	Experimental Biodegradation	28 days		40 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Ethyl 4- dimethylaminobenz oate	10287-53-3	Experimental Hydrolysis		Hydrolytic half-life (pH 7)		OECD 111 Hydrolysis func of pH

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Ethanol	64-17-5	Experimental Bioconcentration		Log Kow	-0.35	
Bisphenol A diglycidyl ether dimethacrylate (BISGMA)	1565-94-2	Experimental Bioconcentration		Log Kow	4.63	
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	Experimental Bioconcentration		Log Kow	0.42	OECD 107 log Kow shke flsk mtd
2-Hydroxy-1,3- dimethacryloxypro pane	1830-78-0	Estimated Bioconcentration		Log Kow	2.05	
Copolymer of acrylic and itaconic bonds	25948-33-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Diurethane dimethacrylate (UDMA)	Trade Secret	Experimental Bioconcentration		Log Kow	3.39	
Diphenyliodonium hexafluorophosphat e	58109-40-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ethylene dimethacrylate	97-90-5	Experimental Bioconcentration		Log Kow	2.4	OECD 117 log Kow HPLC method
Ethyl 4- dimethylaminobenz oate	10287-53-3	Experimental Bioconcentration		Log Kow	3.2	OECD 117 log Kow HPLC method

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other Adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility.

SECTION 14: Transport Information

Air Transport (IATA)Regulations

UN No UN1170

Proper Shipping Name ETHANOL SOLUTION

Hazard Classs/Division 3
Subsidiary Risk Not applicable

Packing Group: II

Marine Transport (IMDG)

UN No Not applicable

Proper Shipping Name Not applicable Hazard Classs/Division Not applicable Subsidiary Risk Not applicable

Packing Group: Not applicable

Environmental Hazards: Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information.

Applicable Environmental, Health and Safety Regulations

The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 Hazardous Waste(Management, Handling & Transboundary) Rules, 2008 Hazardous Chemicals (Classification, Packaging and Labelling Draft Rules), 2011 Central Motor Vehicle Rules, 1989

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules Ethanol

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:

Product is classified as very highly flammable liquid

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 Flammability: 3 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:

Section 1: Address information was modified.

Company Telephone information was modified.

Section 1: E-mail address information was modified.

Section 1: Emergency telephone information was modified.

Section 1: Product name information was modified.

US Section 01 Product Use - Recommended Use information was modified.

Section 2: Hazard - Other information was modified.

Label: GHS Classification information was modified.

- Label: GHS Environmental Hazard Statements information was deleted.
- Label: GHS Precautionary Disposal information was deleted.
- Label: GHS Precautionary Prevention information was modified.
- Label: GHS Precautionary Response information was modified.
- Label: GHS Precautionary Storage information was deleted.
- Label: Graphic information was modified.
- Label: Signal Word information was modified.
- Label: Symbol information was modified.
- Section 2: Ingredient table information was modified.
- Section 04: First Aid Symptoms and Effects (GHS) information was added.
- Section 4: First aid for eye contact information information was modified.
- Section 04: Information on toxicological effects information was deleted.
- Section 6: Accidental release personal information information was modified.
- Section 7: Conditions safe storage information was modified.
- Section 7: Precautions safe handling information information was modified.
- Section 8: Occupational exposure limit table information was modified.
- Section 09: Color information was added.
- Section 9: Flammability (solid, gas) information information was deleted.
- Section 09: Flammability information information was added.
- Section 09: Kinematic Viscosity information information was added.
- Section 09: Odor information was added.
- Sections 3 and 9: Odour, colour, grade information information was deleted.
- Section 09: Particle Characteristics N/A information was added.
- Section 09: Percent Volatile information was added.
- Section 9: Property description for optional properties information was added.
- Section 9: Property description for optional properties information was deleted.
- Section 09: Vapor Density Value information was added.
- Section 9: Vapour density value information was deleted.
- Section 9: Viscosity information information was deleted.
- Section 09: VOC Less H2O & Exempt Solvents information was added.
- Section 09: Volatile Organic Compounds information was added.
- Section 11: Acute Toxicity table information was modified.
- Section 11: Germ Cell Mutagenicity Table information was modified.
- Section 11: Health Effects Additional Information information was deleted.
- Section 11: Health Effects Eye information information was modified.
- Section 11: Health Effects Ingestion information information was modified.
- Section 11: Health Effects Inhalation information information was modified.
- Section 11: Reproductive Hazards information information was added.
- Section 11: Reproductive Toxicity Table information was modified.
- Section 11: Serious Eye Damage/Irritation Table information was modified.
- Section 11: Single exposure may cause standard phrases information was deleted.
- Section 11: Skin Corrosion/Irritation Table information was modified.
- Section 11: Skin Sensitization Table information was modified.
- Section 11: Target Organs Repeated Table information was modified.
- Section 11: Target Organs Single Table information was modified.
- Section 12: Acute aquatic hazard information information was modified.
- Section 12: Component ecotoxicity information information was modified.
- Section 12: Persistence and Degradability information information was modified.
- Section 12:Bioccumulative potential information information was modified.
- Sectio 16: UK disclaimer information was deleted.
- Section 16: Web address information was modified.

DISCLAIMER: The information in this Safety Data Sheet (SDS) is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy

3M TM Unitek TM Transbond TM Mip Moisture Insensitive Primer (712-021, 71	712-02	712-	121.	(712-0)	Primer C	Insensitive	Moisture	I TM Min	Transbond	Unitek TM	3MTM
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themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into India, you are responsible to comply with all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

Solventum India SDSs are available at Solventum.com