

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 08/09/2018 Version: 2.0

SECT	ION 1: Identification of the	substance/mixture and of the company/undertaking
1.1.	Product identifier	
Product	form	: Mixture
Product	name	: All-Bond 3 Resin
4.0	Delevent identified uses of the	
1.2.	Relevant identified uses of the s	substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Use of t	he substance/mixture	: For Rx Only
1.2.2.	Uses advised against	
No addi	tional information available	
1.3.	Details of the supplier of the sa	fety data sheet
1-847-5 www.bis	nc. 1100 W Irving Park Road, Schau 34-6000, during normal business ho <u>sco.com</u>	
Bisico F Telepho	ne: 33-4-90-42-92-92	13680 Lançon de Provence, France
1.4.	Emergency telephone number	
Emerge	ncy number	 CHEMTREC - 24-Hour Hazmat Emergency Communications Center Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted
SECT	ION 2: Hazards identificatio	n
2.1.	Classification of the substance	or mixture
Classif	ication according to Regulation (E	C) No. 1272/2008 [CLP]
Skin co	rrosion/irritation, Category 2	H315
	eye damage/eye irritation, Category	/ H319
2 Skin sei	nsitisation, Category 1	H317
Specific	target organ toxicity — Single e, Category 3, Respiratory tract	H335
Full text	of H statements : see section 16	
Advore	e physicochemical, human health	and anvironmental effects
		n irritation. May cause an allergic skin reaction. Causes serious eye irritation.
way Cal	use respiratory initiation. Causes skil	הוהמוטח. ואמץ כמטכר מה מוביצול אחור ובמכווטה. כמטפט שלווטטט פעל וודומווטה.

2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS07 Signal word (CLP) : Warning Hazardous ingredients : Ytterbium Fluoride ; BisGMA; 2-Hydroxyethyl Methacrylate Hazard statements (CLP) : H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H335 - May cause respiratory irritation Precautionary statements (CLP) : P261 - Avoid breathing vapours P264 - Wash hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P272 - Contaminated work clothing should not be allowed out of the workplace P280 - Wear protective gloves, face protection, eye protection P302+P352 - IF ON SKIN: Wash with plenty of soap and water 12/13/2017 EN (English) 1/8

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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 P333+P313 - If skin irritation or rash 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 P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation, an approved waste disposal plant, a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste, a hazardous or special waste collection point.

2.3. Other hazards

No additional information available

SECTION 3: Com	position/information on in	aredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ytterbium Fluoride	(CAS-No.) 13760-80-0	10 - 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
BisGMA	(CAS-No.) 1565-94-2	10 - 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
2-Hydroxyethyl Methacrylate	(CAS-No.) 868-77-9 (EC-No.) 212-782-2 (EC Index-No.) 607-124-00-X	10 - 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Urethane Dimethacrylate	(CAS-No.) Proprietary	10 - 30	Eye Irrit. 2, H319 STOT SE 3, H336

Full text of 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 or a doctor if you feel unwell.	
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.	
First-aid measures after skin contact	: Wash skin with plenty of water. Take off 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 or a doctor if you feel unwell.	
4.2. Most important symptoms and effect	cts, both 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. Indication of any immediate medica	l attention and special treatment needed	
Treat symptomatically.		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		

Suitable extinguishing media

: Water spray. Dry powder. Foam. Carbon dioxide.

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5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Assidental release mag		
SECTION 6: Accidental release measurements 6.1. Personal precautions, protective eq		
	uipment and emergency procedures	
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Avoid breathing 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.		
6.3. Methods and material for containme	ent and cleaning up	
Methods for cleaning up	: Take up liquid spill into absorbent material.	
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	Use only outdoors or in a well-ventilated area. Avoid breathing mist, vapours. Avoid contact with skin and eyes. Wear personal protective equipment.	
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, includi	ng any incompatibilities	
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.	
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/pers	onal protection	
8.1. Control parameters		
No additional information available		
8.2. Exposure controls		
Appropriate engineering controls:		
Ensure good ventilation of the work station.		
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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Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and che	
Physical state	Liquid
Appearance	Flowable paste.
Colour	Yellow.
Odour	Acrylic.
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Solubility	No data available
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

9.2. Other information

No additional information available

No additional information available				
SECTION 10: Stability and reactivity				
10.1.	Reactivity			
The prod	The product is non-reactive under normal conditions of use, storage and transport.			
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			
None under recommended storage and handling conditions (see section 7).				
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		
Not classified		
Not classified		
Not classified		
N/A		
N/A		
N/A		
EN (English)	4/8	
	Not classified Not classified Not classified N/A N/A	

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Urethane Dimethacrylate (Proprietary)		
LC50 inhalation rat (ppm)	N/A	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	N/A mg/l/4h	
LC50 inhalation rat (Vapours - mg/l/4h)	N/A mg/l/4h	
Ytterbium Fluoride (13760-80-0)		
LD50 oral rat	N/A	
LD50 dermal rat	N/A	
LD50 dermal rabbit	N/A	
LC50 inhalation rat (ppm)	N/A	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	N/A mg/l/4h	
LC50 inhalation rat (Vapours - mg/l/4h)	N/A mg/l/4h	
2-Hydroxyethyl Methacrylate (868-77-9)		
LD50 oral rat	5564 mg/kg bodyweight (Rat; Experimental value)	
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Rabbit; Experimental value)	
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/irritation	Causes serious eye irritation.	
Respiratory or skin sensitisation	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.

Urethane Dimethacrylate (Proprietary)		
LOAEL (oral, rat)	N/A mg/kg bodyweight	
LOAEL (dermal, rat/rabbit)	N/A mg/kg bodyweight	
LOAEC (inhalation, rat, gas)	N/A ppmv/4h	
LOAEC (inhalation, rat, vapour)	N/A mg/l/4h	
LOAEC (inhalation, rat, dust/mist/fume)	N/A mg/l/4h	
Ytterbium Fluoride (13760-80-0)		
LOAEL (oral, rat)	N/A mg/kg bodyweight	
LOAEL (dermal, rat/rabbit)	N/A mg/kg bodyweight	
LOAEC (inhalation, rat, gas)	N/A ppmv/4h	
LOAEC (inhalation, rat, vapour)	N/A mg/l/4h	
LOAEC (inhalation, rat, dust/mist/fume)	N/A mg/l/4h	
STOT-repeated exposure :	Not classified	

Urethane Dimethacrylate (Proprietar	у)	
LOAEL (oral, rat, 90 days)	N/A mg/kg bodyweight/day	
LOAEL (dermal, rat/rabbit, 90 days)	N/A mg/kg bodyweight/day	
LOAEC (inhalation, rat, gas, 90 days)	N/A ppmv/6h/day	
LOAEC (inhalation, rat, vapour, 90 days)	N/A mg/l/6h/day	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	N/A mg/l/6h/day	
Ytterbium Fluoride (13760-80-0)		
LOAEL (oral, rat, 90 days)	N/A mg/kg bodyweight/day	
LOAEL (dermal, rat/rabbit, 90 days)	N/A mg/kg bodyweight/day	
LOAEC (inhalation, rat, gas, 90 days)	N/A ppmv/6h/day	
LOAEC (inhalation, rat, vapour, 90 days)	N/A mg/l/6h/day	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	N/A mg/l/6h/day	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information			
12.1. Toxicity			
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.		
Acute aquatic toxicity	: Not classified		

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Chronic aquatic toxicity	: Not classified	
Ytterbium Fluoride (13760-80-0)		
EC50 Daphnia 1	190 mg/l	
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

2-Hydroxyethyl Methacrylate (868-77-9)			
o ,		Readily biodegradable in water. Biodegradability in soil: no data available. Adsorbs into the soil.	
12.3.	Bioaccumulative potential		

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		

No additional information available

Results of PBT and vPvB assessment 12.5.

No additional information available 12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

UN number

14.1.

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
INIDG	

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Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference	: Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed

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Denmark

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Revision date :07/03/2018

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

SDS EU (REACH Annex II)

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