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CS_UVACR03

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ADHESIVE, MULTI-COMPONENT UV-CURING ACRYLATE

Safety Data Sheet: CS_UVACR03

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

CS_UVACR03

Product group: Adhesive

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Adhesives, sealants.

1.3. Details of the supplier of the safety data sheet

Company name: Com&Sens BV
Street: Begoniastraat 17 PB5
Place: 9810 - Eke, Belgium
Contact person: Geert Luyckx
e-mail: info@com-sens.eu
Internet: www.com-sens.eu

1.4. Emergency telephone number

+32 14 41 11 19

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

- Skin Sens. 1; H317
- Aquatic Chronic 2; H411

Full text of hazard statements: see Section 16.

2.2. Label elements

Regulation (EC) No. 1272/2008

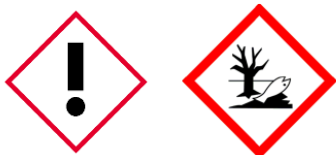
Hazard components for labelling

Tricyclodecane Dimethanol Diacrylate; 2-Hydroxypropyl methacrylate; Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

Signal word

Warning

Pictograms



Hazard statements

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Special labelling of certain mixtures

5-<10% of the mixture consists of component(s) of unknown acute toxicity (inhalation).

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No / EC No / REACH No	Chemical name	Classification (EC 1272/2008)	Quantity
64401-02-1 613-584-2 01-2119969511-34	Ethoxylated Bisphenol A Diacrylate	Aquatic Chronic 2; H411	50-80 %
42594-17-2 255-901-3 01-2120051112-76	Tricyclodecane Dimethanol Diacrylate	Skin Sens. 1B, Aquatic Chronic 2; H317 H411	5-30 %
27813-02-1 248-666-3 01-2119490226-37	2-Hydroxypropyl methacrylate	Eye Irrit. 2, Skin Sens. 1; H319 H317	5-<10 %
84434-11-7 282-810-6 01-2119987994-10	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Skin Sens. 1B, Aquatic Chronic 2; H317 H411	1-5 %

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No / EC No	Chemical name	Quantity	ATE
64401-02-1 613-584-2	Ethoxylated Bisphenol A Diacrylate	50-80 %	dermal: LD50 = 2000 mg/kg oral: LD50 = 2000 mg/kg
42594-17-2 255-901-3	Tricyclodecane Dimethanol Diacrylate	5-30 %	dermal: LD50 = 2000 mg/kg oral: LD50 = 2000 mg/kg
27813-02-1 248-666-3	2-Hydroxypropyl methacrylate	5-<10 %	inhalation: data lacking (gases) dermal: LD50 = >5000 mg/kg oral: LD50 = >2000 mg/kg
84434-11-7 282-810-6	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	1-5 %	inhalation: data lacking (gases) dermal: LD50 = >2000 mg/kg oral: LD50 = >5000 mg/kg

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

Rinse immediately, carefully and thoroughly with an eye-bath or water. In case of eye irritation, consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink a glass of water.

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

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No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate firefighting measures with the surroundings of the fire.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with a water spray jet. Collect contaminated firefighting water separately. Do not allow it to enter drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protective equipment.

6.2. Environmental precautions

Do not allow to enter surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

- Safe handling: see Section 7
- Personal protection equipment: see Section 8
- Disposal: see Section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe a skin protection programme. Wash hands and face before breaks and after work, and take a shower if necessary. Do not eat, drink, smoke or sniff when using.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Adhesives, sealants.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Eye/face protection

Wear eye protection/face protection.

Hand protection

When handling chemical substances, protective gloves must be worn bearing the CE label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific workplace concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves with the supplier of those gloves.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation, wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value	Test method
Physical state	Liquid	
Colour	Clear, transparent	
Odour	Characteristic	
Melting point / freezing point	< -80 °C	EC 440/2008 A.1 (DSC)
Boiling point / initial boiling range	181 °C	ASTM D 1078
Flammability	Not determined	
Lower / upper explosion limits	Not determined	
Flash point	> 100 °C	
Auto-ignition temperature	353 °C	ASTM E659
Decomposition temperature	431 °C	ISO 11358-1
pH-value	5	ASTM E70
Viscosity, kinematic	Not determined	
Water solubility	Known to be insoluble in water (study not required)	
Solubility in other solvents	Not determined	
Partition coefficient n-octanol/water	Not determined	
Vapour pressure	Not determined	
Density	1.05 g/cm ³	
Relative vapour density	Not determined	
Particle characteristics	Not applicable	

9.2. Other information

Explosive properties

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The product is not explosive.

Oxidizing properties

The product is not oxidising.

Viscosity, dynamic

365–680 mPa·s.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATEmix calculated

ATE (oral) >2000 mg/kg; ATE (dermal) >2000 mg/kg; ATE (inhalation vapour) >20 mg/l; ATE (inhalation dust/mist) >5 mg/l.

Acute toxicity

Chemical name (CAS No)	Exposure route	Dose	Species	Method
Ethoxylated Bisphenol A Diacrylate (64401-02-1)	Oral	LD50 2000 mg/kg	Rat	OECD 423
Ethoxylated Bisphenol A Diacrylate (64401-02-1)	Dermal	LD50 2000 mg/kg	Rat	OECD 402
Tricyclodecane Dimethanol Diacrylate (42594-17-2)	Oral	LD50 2000 mg/kg	Rat	OECD 423
Tricyclodecane Dimethanol Diacrylate (42594-17-2)	Dermal	LD50 2000 mg/kg	Rat	OECD 402
2-Hydroxypropyl methacrylate (27813-02-1)	Oral	LD50 >2000 mg/kg	Rat	OECD 401
2-Hydroxypropyl methacrylate (27813-02-1)	Dermal	LD50 >5000 mg/kg	Rabbit	—
2-Hydroxypropyl methacrylate (27813-02-1)	Inhalation	Data lacking	—	—
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (84434-11-7)	Oral	LD50 >5000 mg/kg	Rat	—
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (84434-11-7)	Dermal	LD50 >2000 mg/kg	Rat	—
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (84434-11-7)	Inhalation	Data lacking	—	—

11.2. Information on other hazards

The mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

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SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity

Chemical name	Test	Dose	Duration	Species / Method
Ethoxylated Bisphenol A Diacrylate	Acute fish toxicity	LL50 >100 mg/l	96 h	Oncorhynchus mykiss (rainbow trout); OECD 203
Ethoxylated Bisphenol A Diacrylate	Acute crustacea toxicity	EL50 6 mg/l	48 h	Daphnia magna (big water flea); OECD 202
Ethoxylated Bisphenol A Diacrylate	Crustacea toxicity	NOEC 14.3 mg/l	28 d	—
Tricyclodecane Dimethanol Diacrylate	Acute fish toxicity	LC50 1.65 mg/l	96 h	Danio rerio (zebrafish); OECD 203
Tricyclodecane Dimethanol Diacrylate	Acute algae toxicity	ErC50 1.6 mg/l	72 h	Pseudokirchneriella subcapitata; OECD 201
Tricyclodecane Dimethanol Diacrylate	Acute crustacea toxicity	EC50 2.36 mg/l	48 h	Daphnia magna (big water flea); OECD 202
2-Hydroxypropyl methacrylate	Acute fish toxicity	LC50 493 mg/l	96 h	Leuciscus idus; DIN 38412-1
2-Hydroxypropyl methacrylate	Acute algae toxicity	ErC50 >97.2 mg/l	72 h	Pseudokirchneriella subcapitata; OECD 201
2-Hydroxypropyl methacrylate	Acute crustacea toxicity	EC50 143 mg/l	48 h	Daphnia magna
2-Hydroxypropyl methacrylate	Algae toxicity	NOEC 97.2 mg/l	3 d	OECD 201
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Acute fish toxicity	LC50 1.89 mg/l	96 h	Danio rerio (zebrafish)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Acute algae toxicity	ErC50 1.01 mg/l	72 h	Desmodesmus subspicatus
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Acute crustacea toxicity	EC50 2.26 mg/l	48 h	Daphnia magna (big water flea)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Acute bacteria toxicity	EC50 >1000 mg/l	—	—

12.2. Persistence and degradability

The product has not been tested.

Chemical name	Method	Value	Duration
Ethoxylated Bisphenol A Diacrylate	OECD 301D	21 %	28 d
Ethoxylated Bisphenol A Diacrylate	OECD 301D	61 %	60 d
Tricyclodecane Dimethanol Diacrylate	OECD 301F	28 %	28 d
2-Hydroxypropyl methacrylate	Modified OECD Screening Test	94 %	28 d
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Biodegradation	10 %	28 d

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

Chemical name	Log Pow
Ethoxylated Bisphenol A Diacrylate	3.66–4.16

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Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate		2.91

BCF (bioconcentration factor)

Chemical name	BCF
Tricyclodecane Dimethanol Diacrylate	6.17

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII. The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine-disrupting properties with respect to non-target organisms, as no component meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter surface water or drains. Do not allow to enter soil or subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter surface water or drains. Do not allow to enter soil or subsoil. Dispose of waste according to applicable legislation.

List of Waste Codes – residues/unused product

080409 – Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste.

List of Waste Codes – used product

080409 – Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste.

List of Waste Codes – contaminated packaging

080409 – Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste.

Contaminated packaging

Non-contaminated packaging may be recycled. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number	14.2 UN proper shipping name	14.3 Class	14.4 Group
UN 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethoxylated Bisphenol A Diacrylate)	9	III

Classification code: M6. Special provisions: 274, 335, 375, 601. Limited quantity: 5 L. Excepted quantity: E1. Transport category: 3. Hazard No: 90.

Inland waterways transport (ADN)

14.1 UN number	14.2 UN proper shipping name	14.3 Class	14.4 Group
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UN 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethoxylated Bisphenol A Diacrylate)	9	III		

Classification code: M6. Special provisions: 274, 335, 375, 601. Limited quantity: 5 L. Excepted quantity: E1.

Marine transport (IMDG)

14.1 UN number	14.2 UN proper shipping name	14.3 Class	14.4 Group
UN 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethoxylated bisphenol A diacrylate)	9	III

Special provisions: 274, 335, 969. Limited quantity: 5 L. Excepted quantity: E1. EmS: F-A, S-F.

Air transport (ICAO-TI/IATA-DGR)

14.1 UN number	14.2 UN proper shipping name	14.3 Class	14.4 Group
UN 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethoxylated bisphenol A diacrylate)	9	III

Special provisions: A97, A158, A197, A215. Limited quantity, passenger: 30 kg G. Passenger LQ: Y964. Excepted quantity: E1. IATA packing instructions (passenger/cargo): 964. IATA max. quantity (passenger/cargo): 450 L.

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, Annex XVII)

Entry 3.

Information according to Directive 2012/18/EU (SEVESO III)

E2, hazardous to the aquatic environment.

National regulatory information

Employment restrictions

Observe restrictions on employment for juveniles according to the 'Young People at Work' Directive (94/33/EC).

Water hazard class (D)

2 – obviously hazardous to water.

Skin resorption/sensitization

Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Eye Irrit.	Eye irritation
Skin Sens.	Skin sensitisation
Aquatic Chronic	Chronic aquatic hazard
CLP	Classification, Labelling and Packaging
REACH	Registration, Evaluation and Authorisation of Chemicals
GHS	Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN	United Nations
EC/EEC	European Community/European Economic Community
EU	European Union
CAS	Chemical Abstracts Service

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DNEL	Derived No Effect Level
DMEL	Derived Minimal Effect Level
PNEC	Predicted No Effect Concentration
ATE	Acute toxicity estimate
LC50	Lethal concentration, 50%
LD50	Lethal dose, 50%
LL50	Lethal loading, 50%
EL50	Effect loading, 50%
EC50	Effective concentration, 50%
ErC50	Effective concentration, 50%, growth rate
NOEC	No observed effect concentration
BCF	Bio-concentration factor
PBT	Persistent, bioaccumulative, toxic
vPvB	Very persistent, very bioaccumulative
M-factor	Multiplying factor
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG	International Maritime Dangerous Goods Code
EmS	Emergency Schedules
MFAG	Medical First Aid Guide
IATA	International Air Transport Association
DGR	Dangerous Goods Regulations
ICAO	International Civil Aviation Organization
TI	Technical Instructions
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
IBC	Intermediate Bulk Container
SVHC	Substance of Very High Concern

For further abbreviations and acronyms, see the ECHA Guidance on Information Requirements and Chemical Safety Assessment, Chapter R.20 (Table of Terms and Abbreviations).

Classification for mixtures and evaluation method used, per Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Further information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contractual legal rights. The receiver of our product is solely responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken from the latest version of the sub-contractor's safety data sheet.)