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CS_UVACR01

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ADHESIVE, ONE-COMPONENT UV-CURING ACRYLATE

Safety Data Sheet: CS_UVACR01

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

1.1. Product identifier

CS_UVACR01

Product group: Adhesive

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

Use of the substance/mixture

Use according to information of the technical datasheet.

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

+32 497 64 51 30

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

- Skin corrosion/irritation: Skin Irrit. 2
- Serious eye damage/eye irritation: Eye Irrit. 2
- Respiratory or skin sensitisation: Skin Sens. 1
- Specific target organ toxicity – single exposure: STOT SE 3
- Hazardous to the aquatic environment: Aquatic Acute 1
- Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard statements:

- Causes skin irritation.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- May cause respiratory irritation.
- Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects.

2.2. Label elements

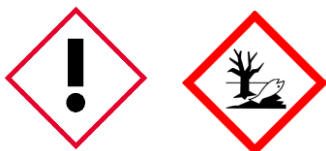
Regulation (EC) No. 1272/2008

Hazard components for labelling

Isobornyl acrylate; Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

Signal word Warning

Pictograms



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Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very 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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No / EC No / REACH No	Chemical name	GHS Classification	Quantity
5888-33-5 227-561-6 01-2119957862-25	Isobornyl acrylate	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H315 H319 H317 H335 H400 H410	25–50 %
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
5888-33-5 227-561-6	Isobornyl acrylate	25–50 %	dermal: LD50 = >3000 mg/kg oral: LD50 = >5000 mg/kg
84434-11-7 282-810-6	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	1–5 %	dermal: LD50 = >2000 mg/kg oral: LD50 = >5000 mg/kg

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Remove casualty to fresh air and keep warm and at rest. Get medical advice/attention if you feel unwell.

After contact with skin

After contact with skin, wash immediately with water and soap. Take off contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes, flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

IF SWALLOWED: rinse mouth. Get medical advice/attention if you feel unwell.

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

See Section 11: Toxicological information.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, dry extinguishing powder, extinguishing powder, carbon dioxide (CO₂).

Unsuitable extinguishing media

Strong water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire, the following may be liberated:

- Nitrogen oxides (NO_x)
- Carbon dioxide (CO₂)
- Carbon monoxide

5.3. Advice for firefighters

Wear a chemical-resistant suit. Use appropriate respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Evacuate the area. Wear personal protective equipment. Provide adequate ventilation.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Collect spillage. Suitable material for taking up: sawdust, sand. Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal. Clear contaminated areas thoroughly. Ventilate affected area.

6.4. Reference to other sections

- Section 8: Exposure controls/personal protection
- Section 13: Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Reserved for industrial and professional use. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using. Wash hands thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Avoid release to the environment.

Advice on protection against fire and explosion

Keep away from sources of ignition. No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Keep away from food, drink and animal feeding stuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

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To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls

See Section 7. No further action is necessary.

Protective and hygiene measures

Respiratory protection is necessary where ventilation is insufficient or aerosol/mist is generated. According to experience, this refers to tasks such as cleaning work.

Eye/face protection

Suitable eye protection: framed glasses.

Hand protection

Single-use gloves. Suitable material: NBR (nitrile rubber), butyl rubber, FKM (fluoroelastomer/Viton). German Industry Norms (DIN)/European Norms (EN): DIN EN 374, DIN EN 420, or comparable articles from other manufacturers. Breakthrough times and swelling properties of the material must be taken into consideration.

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
Physical state	Liquid: viscous
Colour	Clear, greenish blue
Odour	Characteristic
pH-value	Not determined
Melting point	n.a.
Boiling point / initial boiling range	n.a.
Sublimation point	n.a.
Softening point	n.a.
Flash point	> 100 °C
Flammability (solid/liquid)	Non-flammable
Flammability (gas)	n.a.
Explosive properties	Not explosive
Self-ignition temperature (solid)	n.a.
Self-ignition temperature (gas)	n.a.
Oxidizing properties	n.a.
Density	1.05 g/cm ³
Water solubility	Virtually insoluble
Viscosity, dynamic (at 23 °C)	500–800 mPa·s

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is chemically stable under recommended conditions of storage, use and temperature.

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10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Danger of polymerisation.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Powdered metals, heavy metals, reducing agents, radical formers.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

Further information

Exothermic reactions with radical formers.

SECTION 11: Toxicological information

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

Acute toxicity

Chemical name (CAS No)	Exposure route	Dose	Species
Isobornyl acrylate (5888-33-5)	Oral	LD50 >5000 mg/kg	Rat
Isobornyl acrylate (5888-33-5)	Dermal	LD50 >3000 mg/kg	Rabbit
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

Irritation and corrosivity

Strongly irritant. In rare cases the product can cause temporary erythema of the skin.

Sensitising effects

Sensitizing.

STOT – repeated exposure

Frequently or prolonged contact with skin may cause dermal irritation.

Additional information on tests

Toxicological data are not available. Preparation not tested.

Practical experience

The statement is derived from the properties of the single components.

Further information

Acute toxicity, irritation of the skin and mucous membrane, and mutagenic potential of the preparation were assessed by the manufacturer on the basis of the data available on the main components. Information gaps exist for some of the main individual components. However, according to the experience of the manufacturer, no dangers above and beyond those on the product label are to be expected. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

Aquatic toxicity

Chemical name	Test	Dose	Duration	Species / Method
Isobornyl acrylate	Acute fish toxicity	LC50 0.704 mg/l	96 h	Brachydanio rerio (zebra-fish); OECD 203

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Isobornyl acrylate	Algae toxicity	NOEC 0.405 mg/l	3 d	Pseudokirchneriella subcapitata; OECD 201
Isobornyl acrylate	Crustacea toxicity	NOEC 0.092 mg/l	21 d	Daphnia magna (big water flea); OECD 202
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Acute fish toxicity	LC50 1.89 mg/l	96 h	Brachydanio rerio (zebra-fish)
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	Fish toxicity	NOEC > 1.29 mg/l	4 d	Brachydanio rerio (zebra-fish)

12.2. Persistence and degradability

Chemical name	Method	Value	Duration	Evaluation
Isobornyl acrylate	OECD 301F	51 %	28 d	Easily biodegradable
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Biodegradation	10 %	28 d	Not easily biodegradable

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

Chemical name	Log Pow
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	2.91

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions. Contaminated packaging that cannot be properly cleaned must be thrown away; handle contaminated packaging in the same way as the substance itself. The waste disposal numbers below are not product-related but origin-related, and are recommendations only; the manufacturer cannot declare waste disposal numbers for products employed in different markets.

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.

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.	9	III

Special provisions: 375. Excepted quantity: 5 l.

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.	9	III

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.	9	III

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.	9	III

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.

National regulatory information

Employment restrictions

Observe restrictions on employment for juveniles according to the 'Young People at Work' Directive (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D)

3 – highly hazardous to water.

SECTION 16: Other information

Changes

Safety Data Sheet prepared according to 91/155/EEC.

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. It is intended to give advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product

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with other products, or in the case of processing, the information in this safety data sheet is not necessarily valid for the new made-up material. The receiver of our product is solely responsible for adhering to existing laws and regulations.

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