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SAFETY DATA SHEET

according to UK REACH Regulation

RAJA
code 71078

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

1.1. Product identifier:

RAJA code 71078

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

1.3. Details of the supplier of the safety data sheet:

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Skin Sens. 1, H317

Full text of hazard statements: see SECTION 16.

SAFETY DATA SHEET

according to UK REACH Regulation

RAJA
code 71078

SECTION 2: Hazards identification

2.2. Label elements

GB CLP Regulation

Hazard components for labelling :

Aliphatic Urethane Acrylate
pentaerythritol tetraacrylate
Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate
2-ethylhexyl acrylate.

Signal word :

Warning.

Pictograms:



Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards:

Water hazard class 3 - highly hazardous to water

SAFETY DATA SHEET

according to UK REACH Regulation

RAJA
 code 71078

SECTION 3: Composition/information on ingredients

3.2. Mixtures: Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
	Aliphatic Urethane Acrylate			50 - < 55 %
	Skin Sens. 1B; H317			
4986-89-4	pentaerythritol tetraacrylate			10 - < 15 %
	225-644-1	607-122-00-9		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate			5 - < 10 %
	282-810-6			
	Skin Sens. 1B; H317			
103-11-7	2-ethylhexyl acrylate			< 1 %
	203-080-7	607-107-00-7		
	Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H315 H317 H335			

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

Specific Conc. Limits, M-factors and ATE.

SAFETY DATA SHEET

according to UK REACH Regulation

RAJA
 code 71078

SECTION 3: Composition/information on ingredients

3.2. Mixtures: Hazardous components

CAS No		Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
103-11-7	203-080-7	2-ethylhexyl acrylate	< 1 %
	dermal: LD50 = 7522 mg/kg; oral: LD50 = 4435 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

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink 1 glass of water.

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

No information available.

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

Treat symptomatically.

SAFETY DATA SHEET

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RAJA
code 71078

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering 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 protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

Other information

Take up mechanically. 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

SAFETY DATA SHEET

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RAJA
code 71078

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 skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. @1501.B015713

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)

for professional use only

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



SAFETY DATA SHEET

according to UK REACH Regulation

RAJA
code 71078

SECTION 8: Exposure controls/personal protection

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with 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 working place concentration and quantity of hazardous substances. For special purposes, it is

recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these 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

Physical state: Liquid

Colour:

Changes in the physical state

Melting point/freezing point: not determined

Boiling point or initial boiling point and boiling range: not determined

Flash point: not determined

Flammability

Solid/liquid: not determined

Gas: not determined

SAFETY DATA SHEET

according to UK REACH Regulation

RAJA
code 71078

SECTION 9: Physical and chemical properties

Explosive properties

The product is not: Explosive.
Lower explosion limits: not determined
Upper explosion limits: not determined
Auto-ignition temperature: not determined
Decomposition temperature: not determined
pH-Value: not determined
Viscosity: ASTM D 445
Flow time: not determined
Water solubility: insoluble

Solubility in other solvents

not determined
Partition coefficient n-octanol/water: not determined
Vapour pressure: not determined
Density: not determined
Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties
The product is not: oxidising.

Other safety characteristics

Solid content: not determined
Evaporation rate: not determined

Further Information

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.

SAFETY DATA SHEET

according to UK REACH Regulation

RAJA
code 71078

SECTION 10: Stability and reactivity

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

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
103-11-7	2-ethylhexyl acrylate				
	oral	LD50 4435 mg/kg	Rat	IUCLID	
	dermal	LD50 7522 mg/kg	Rabbit	IUCLID	

Further information

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

SECTION 12: Ecological information

12.1 Toxicity

The product is not: Ecotoxic.

SAFETY DATA SHEET

according to UK REACH Regulation

RAJA
code 71078

SECTION 12: Ecological information						
CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
103-11-7	2-hydroxyethyl methacrylate					
	Acute fish toxicity	ErC50 44 mg/l	72 h	Desmodesmus subspicatus	IUCLID	
	Acute crustacea toxicity	EC50 17 mg/l	48 h	Daphnia magna	IUCLID	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
103-11-7	2-ethylhexyl acrylate	4,64 (25°C)

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 UK REACH.

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 components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

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

SAFETY DATA SHEET

according to UK REACH Regulation

RAJA
code 71078

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. **UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. **Packing group:** No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1. **UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. **Packing group:** No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1. **UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. **Packing group:** No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1. **UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. **Packing group:** No dangerous good in sense of this transport regulation.

SAFETY DATA SHEET

according to UK REACH Regulation

RAJA
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SECTION 14: Transport information

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

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, Entry 75

2010/75/EU (VOC): 0,1 %

2004/75/EU (VOC): 0,1 %

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

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 3 - highly 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.

SAFETY DATA SHEET

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RAJA
code 71078

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
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
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
ICAO: International Civil Aviation Organization

SAFETY DATA SHEET

according to UK REACH Regulation

RAJA
code 71078

SECTION 16: Other information

PMARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	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.

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 contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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