



SAFETY DATA SHEET URACRON CY472 E-57

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

1.1. Product identifier

Product name URACRON CY472 E-57

Product number 57248

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

Identified uses Resin.

1.3. Details of the supplier of the safety data sheet

Supplier Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
SDS.EMEA@univarsolutions.com

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 57248

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards STOT SE 3 - H336

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements EUH208 Contains METHYL METHACRYLATE, 2-HYDROXYETHYL METHACRYLATE. May produce an allergic reaction.
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

URACRON CY472 E-57

Precautionary statements

P261 Avoid breathing vapour/ spray.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
 Rinse skin with water or shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTRE/doctor if you feel unwell.
 P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

BUTYL ACETATE -norm

2.3. Other hazards

Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Repeated exposure may cause skin dryness or cracking. This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

BUTYL ACETATE -norm			30-60%
CAS number: 123-86-4	EC number: 204-658-1	REACH registration number: 01-2119485493-29-XXXX	
Classification Flam. Liq. 3 - H226 STOT SE 3 - H336			

METHYL METHACRYLATE			<1%
CAS number: 80-62-6	EC number: 201-297-1	REACH registration number: 01-2119452498-28-XXXX	
Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335			

2-HYDROXYETHYL METHACRYLATE			0.1 - 0.3%
CAS number: 868-77-9	EC number: 212-782-2	REACH registration number: 01-2119490169-29-XXXX	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317			

The full text for all hazard statements is displayed in Section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

URACRON CY472 E-57

General information

Show this Safety Data Sheet to the medical personnel.

Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

Ingestion

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if symptoms are severe or persist after washing.

Eye contact

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

Inhalation

May cause drowsiness or dizziness. Central nervous system depression. Vapours may cause headache, fatigue, dizziness and nausea. Vapours in high concentrations are narcotic.

Ingestion

Central nervous system depression.

Skin contact

Repeated exposure may cause skin dryness or cracking. The product contains a small amount of sensitising substance. May cause skin sensitisation or allergic reactions in sensitive individuals.

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

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Flammable liquid and vapour. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Containers can burst violently or explode when heated, due to excessive pressure build-up. Fire-water run-off in sewers may create fire or explosion hazard.

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Aldehydes. Acids - organic.

5.3. Advice for firefighters

Protective actions during firefighting

Cool containers exposed to flames with water until well after the fire is out. Contain and collect extinguishing water. Avoid the spillage or runoff entering drains, sewers or watercourses. Evacuate area. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke.

URACRON CY472 E-57

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Approach the spillage from upwind. Keep unnecessary and unprotected personnel away from the spillage. No action shall be taken without appropriate training or involving any personal risk. Take precautionary measures against static discharges. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Use only non-sparking tools. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. If ventilation is inadequate, suitable respiratory protection must be worn. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Fire-water run-off in sewers may create fire or explosion hazard.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. Provide adequate ventilation. Absorb spillage with inert, damp, non-combustible material. No smoking, sparks, flames or other sources of ignition near spillage. Use explosion-proof electrical equipment. Use only non-sparking tools. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Ground/bond container and receiving equipment. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Take precautionary measures against static discharges. Use only non-sparking tools. Use explosion-proof electrical equipment. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas. Wash at the end of each work shift and before eating, smoking and using the toilet. Provide eyewash station and safety shower. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a well-ventilated place. Earth container and transfer equipment to eliminate sparks from static electricity. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store at temperatures between 5°C and 30°C. Avoid exposure to high temperatures or direct sunlight. Avoid contact with oxidising agents.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

URACRON CY472 E-57

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

BUTYL ACETATE -norm

Long-term exposure limit (8-hour TWA): WEL 150 ppm 724 mg/m³

Short-term exposure limit (15-minute): WEL 200 ppm 966 mg/m³

METHYL METHACRYLATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m³

WEL = Workplace Exposure Limit.

BUTYL ACETATE -norm (CAS: 123-86-4)

Ingredient comments	WEL = Workplace Exposure Limits
DNEL	Workers - Inhalation; Long term systemic effects: 300 mg/m³ Workers - Inhalation; Short term systemic effects: 600 mg/m³ Workers - Inhalation; Long term local effects: 300 mg/m³ Workers - Inhalation; Short term local effects: 600 mg/m³ Workers - Dermal; Long term systemic effects: 11 mg/kg/day Workers - Dermal; Short term systemic effects: 11 mg/kg/day General population - Inhalation; Long term systemic effects: 35.7 mg/m³ General population - Inhalation; Short term systemic effects: 300 mg/m³ General population - Inhalation; Long term local effects: 35.7 mg/m³ General population - Inhalation; Short term local effects: 300 mg/m³ General population - Dermal; Long term systemic effects: 6 mg/kg/day General population - Dermal; Short term systemic effects: 6 mg/kg/day General population - Oral; Long term systemic effects: 2 mg/kg/day General population - Oral; Short term systemic effects: 2 mg/kg/day
PNEC	- Fresh water; 0.18 mg/l - marine water; 0.018 mg/l - Intermittent release; 0.36 mg/l - STP; 35.6 mg/l - Sediment (Freshwater); 0.981 mg/kg - Sediment (Marinewater); 0.0981 mg/kg - Soil; 0.0903 mg/kg

METHYL METHACRYLATE (CAS: 80-62-6)

Ingredient comments	WEL = Workplace Exposure Limits
DNEL	Workers - Inhalation; Long term local effects: 208 mg/m³ Workers - Dermal; Long term local effects: 1.5 mg/cm² Workers - Inhalation; Long term systemic effects: 208 mg/m³ Workers - Dermal; Long term systemic effects: 13.67 mg/kg/day Workers - Dermal; Short term local effects: 1.5 mg/cm² Consumer - Inhalation; Long term local effects: 105 mg/m³ Consumer - Dermal; Long term local effects: 1.5 mg/cm² Consumer - Inhalation; Long term systemic effects: 74.3 mg/m³ Consumer - Dermal; Long term systemic effects: 8.2 mg/kg/day Consumer - Dermal; Short term local effects: 1.5 mg/cm²

URACRON CY472 E-57

PNEC

- Fresh water; 0.94 mg/l
- marine water; 0.094 mg/l
- Soil; 1.47 mg/kg
- Sediment; 5.74 mg/kg
- STP; 10 mg/l

2-HYDROXYETHYL METHACRYLATE (CAS: 868-77-9)

DNEL

- Industry - Dermal; systemic effects: 1.3 mg/m³
- Industry - Inhalation; systemic effects: 4.9 mg/m³
- Consumer - Dermal; systemic effects: 0.83 mg/m³
- Consumer - Inhalation; systemic effects: 2.9 mg/m³
- Consumer - Oral; systemic effects: 0.83 mg/m³

PNEC

- Fresh water; 0.482 mg/l
- marine water; 0.482 mg/l
- STP; 10 mg/l
- Intermittent release; 1 mg/l
- Sediment (Freshwater); 3.79 mg/kg
- Sediment (Marinewater); 3.79 mg/kg
- Soil; 0.476 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Use explosion-proof electrical equipment. Provide eyewash station and safety shower. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material. Butyl rubber. The selected gloves should have a breakthrough time of at least 4 hours. Thickness: 0.7 mm Nitrile rubber. The selected gloves should have a breakthrough time of at least 1 hours. Thickness: 0.4 mm To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear fire/flammable resistant/retardant clothing. Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Remove contaminated clothing and protective equipment before entering eating areas. Wash after use and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Take off immediately all contaminated clothing and wash it before reuse. Provide eyewash station and safety shower.

URACRON CY472 E-57

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Organic vapour filter. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Colourless.
Odour	Organic solvents.
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	126°C
Flash point	25°C Closed cup.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Relative density	1.04
Bulk density	1040 kg/m ³
Solubility(ies)	Immiscible with water.
Partition coefficient	No information available.
Auto-ignition temperature	370°C
Decomposition Temperature	No information available.
Viscosity	> 20.5 cSt @ 40°C >2881 cSt @ 20°C 3000-7000 mPa s @ 20°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No information available.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients.

URACRON CY472 E-57

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react with the product: Oxidising agents.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition.

10.5. Incompatible materials

Materials to avoid Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Aldehydes. Acids - organic.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation

May cause drowsiness or dizziness. Overexposure may depress the central nervous system, causing dizziness and intoxication. Vapours in high concentrations are narcotic.

Ingestion

Gastrointestinal symptoms, including upset stomach. Central nervous system depression.

URACRON CY472 E-57

Skin contact Repeated exposure may cause skin dryness or cracking. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact May cause temporary eye irritation.

Toxicological information on ingredients.

BUTYL ACETATE -norm

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 10,760.0

Species Rat

Notes (oral LD₅₀) LD₅₀ 10760 mg/kg, Oral, Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 14,112.0

Species Rabbit

Notes (dermal LD₅₀) LD₅₀ >14112 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ 23.4 mg/l, Inhalation, Vapour, Rat

Skin corrosion/irritation

Animal data Not irritating. Rabbit OECD 404

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Rabbit OECD 405

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - : Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. DNA damage and/or repair: Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEC 2.4 mg/l, Inhalation, Rat

Aspiration hazard

URACRON CY472 E-57

Aspiration hazard	No information available.
Inhalation	Vapours irritate the respiratory system. May cause coughing and difficulties in breathing. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Vapours may cause drowsiness and dizziness.
Ingestion	Gastrointestinal symptoms, including upset stomach. Nausea, vomiting.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	May cause temporary eye irritation.

METHYL METHACRYLATE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral,

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Dermal,

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 29.8

Notes (inhalation LC₅₀) LC₅₀ (4h) 29.8 mg/l, Inhalation, Vapour,

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating. Rabbit OECD 405

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction. Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo No information available.

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility This substance has no evidence of toxicity to reproduction.

URACRON CY472 E-57

Reproductive toxicity - development Embryotoxicity:, Fetotoxicity:, Teratogenicity: - NOAEC: 9000 ppm, , Mouse
Embryotoxicity:, Fetotoxicity:, Teratogenicity: - NOAEC: > 2028 ppm, , Rat

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL (104 w) >2000 ppm, Oral, Rat
NOAEC (104 w) 100 ppm, Inhalation, Rat
NOAEC (14 w) 1000 ppm, Inhalation, Mouse

Target organs Lungs Heart Liver Kidneys

Aspiration hazard

Aspiration hazard Not applicable.

Inhalation May cause respiratory irritation. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Dizziness. Drowsiness. Severe irritation of nose and throat.

Ingestion The product is considered to be a low hazard under normal conditions of use. The product irritates mucous membranes and may cause abdominal discomfort if swallowed.

Skin contact Causes skin irritation. May cause an allergic skin reaction. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

Eye contact May cause temporary eye irritation.

Target organs Lungs Kidneys Liver Heart

2-HYDROXYETHYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No specific test data are available.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

URACRON CY472 E-57

Serious eye damage/irritation Causes serious eye irritation.
Irritating to eyes. Draize test Rabbit

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.
Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo No information available.

Carcinogenicity

Carcinogenicity Carcinogenicity in humans is not expected. OECD 451

Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies. Two-generation study

Reproductive toxicity - development No evidence of reproductive toxicity in animal studies. Two-generation study

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion The product irritates mucous membranes and may cause abdominal discomfort if swallowed.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation. Symptoms following overexposure may include the following: Pain or irritation. Profuse watering of the eyes. Redness.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Ecological information on ingredients.

BUTYL ACETATE -norm

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

URACRON CY472 E-57

METHYL METHACRYLATE

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

2-HYDROXYETHYL METHACRYLATE

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity No information available.

Ecological information on ingredients.

BUTYL ACETATE -norm

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 18 mg/l, Pimephales promelas (Fat-head Minnow)
OECD 203

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 44 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, 72 hours: 200 mg/l, Desmodesmus subspicatus

Acute toxicity - microorganisms IC₅₀, 40 hour: 356 mg/l,

METHYL METHACRYLATE

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 130 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 69 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: >110 mg/l, Pseudokirchneriella subcapitata
NOEC, 72 hours: 49 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 35 days: 9.4 mg/l, Brachydanio rerio (Zebra Fish)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 37 mg/l, Daphnia magna

2-HYDROXYETHYL METHACRYLATE

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

URACRON CY472 E-57

Acute toxicity - fish	LC ₅₀ , 96 hour: > 100 mg/l, Fish OECD 203 Chronic, NOEC, : > 10 - <= 100 mg/l, Fish Read-across data.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hour: 380 mg/l, Daphnia magna OECD 202
Acute toxicity - aquatic plants	EC ₅₀ , 72 hour: 836 mg/l, Algae OECD 201
Acute toxicity - microorganisms	Chronic EC ₅₀ , : 2204 mg/l, Activated sludge
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - aquatic invertebrates	NOEC, : > 10 - <= 100 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability No information available.

Ecological information on ingredients.

BUTYL ACETATE -norm

Persistence and degradability	The product is readily biodegradable.
Biodegradation	Water - Degradation (%) 83%: 28 days

METHYL METHACRYLATE

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation (DOC Rem) > 95%: 28 day
Chemical oxygen demand	88 g O ₂ /g substance

2-HYDROXYETHYL METHACRYLATE

Persistence and degradability	The product is readily biodegradable. OECD 301
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12.3. Bioaccumulative potential

Bioaccumulative potential No information available.

Partition coefficient No information available.

Ecological information on ingredients.

BUTYL ACETATE -norm

Bioaccumulative potential	Bioaccumulation is unlikely. BCF: 3.1,
Partition coefficient	: 2.3

METHYL METHACRYLATE

URACRON CY472 E-57

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient : 1.38

2-HYDROXYETHYL METHACRYLATE

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: 0.42 OECD 107

12.4. Mobility in soil

Mobility Immiscible with water.

Ecological information on ingredients.

BUTYL ACETATE -norm

Mobility No data available.

Surface tension 61.3 mN/m @ 20°C OECD 115

METHYL METHACRYLATE

Mobility The product has poor water-solubility.

2-HYDROXYETHYL METHACRYLATE

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

BUTYL ACETATE -norm

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

METHYL METHACRYLATE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

2-HYDROXYETHYL METHACRYLATE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

BUTYL ACETATE -norm

Other adverse effects Not available.

URACRON CY472 E-57**METHYL METHACRYLATE**

Other adverse effects Not determined.

2-HYDROXYETHYL METHACRYLATE

Other adverse effects No information required.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

General information	Waste is classified as hazardous waste. Flammable liquid and vapour. Do not puncture or incinerate, even when empty. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information**14.1. UN number**

UN No. (ADR/RID)	1866
UN No. (IMDG)	1866
UN No. (ICAO)	1866
UN No. (ADN)	1866

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	RESIN SOLUTION
Proper shipping name (IMDG)	RESIN SOLUTION
Proper shipping name (ICAO)	RESIN SOLUTION
Proper shipping name (ADN)	RESIN SOLUTION

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels

**14.4. Packing group**

ADR/RID packing group	III
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URACRON CY472 E-57

IMDG packing group III

ICAO packing group III

ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 3

Emergency Action Code •3Y

Hazard Identification Number 30
(ADR/RID)

Tunnel restriction code (D/E)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
This product may impact SEVESO storage regulations.

Restrictions (Annex XVII Regulation 1907/2006) This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 3

Seveso Directive - Control of major accident hazards P5c

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

URACRON CY472 E-57

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Classification procedures according to Regulation (EC) 1272/2008

Flam. Liq. 3 - H226: On basis of test data. STOT SE 3 - H336: Calculation method.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

07/06/2021

URACRON CY472 E-57

Version number	2.000
Supersedes date	28/02/2019
SDS number	57248
SDS status	Approved.
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. 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. EUH208 Contains METHYL METHACRYLATE, 2-HYDROXYETHYL METHACRYLATE. May produce an allergic reaction.
Signature	J Spenceley

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