



Safety Data Sheet

Clear ACR High Gloss Topcoat

Safety Data Sheet dated 11/30/2017, version 1

1. IDENTIFICATION

Product identifier
 Mixture identification:
 Trade name: Clear ACR High Gloss Topcoat
 Other means of identification:
 Trade code: 6LPU003
 Recommended use of the chemical and restrictions on use
 Recommended use: Surface coating
 Restrictions on use:

 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party
 Company:
 Sirca S.p.A.
 Address:
 Viale Roma, 85
 35010 S.Dono di Massanzago (PD) - ITALY
 Tel. +39 0499322311
 Distributed by:
 GEMINI INDUSTRIES, INC.
 2300 Holloway Drive
 El Reno, OK 73036
 USA
 Tel. 1-800-262-5710
 Fax 1-405-262-9310
 www.gemini-coatings.com
 Competent person responsible for the safety data sheet:
 safety@sirca.it
 Emergency phone number
 For Hazardous Materials [or Dangerous Goods] Incident
 Spill, Leak, Fire, Exposure, or Accident
 Call CHEMTREC Day or Night
 1-800-424-9300 / +1 703-527-3887.

2. HAZARD(S) IDENTIFICATION

Classification of the chemical
 Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
 Warning, Skin Sens. 1A, May cause an allergic skin reaction.
 Warning, Carc. 2, Suspected of causing cancer.
 Warning, Repr. 2, Suspected of damaging fertility or the unborn child.
 Aquatic Acute 3, Harmful to aquatic life.

Label elements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.
 H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.
 H361 Suspected of damaging fertility or the unborn child.
 H402 Harmful to aquatic life.

Precautionary statements:

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.

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P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use a CO₂, Foam, Chemical powders for extinction.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:



HMIS rating:

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		1
PERSONAL PROTECTION		

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 12.5% - < 20% heptan-2-one; methyl amyl ketone

Index number: 606-024-00-3, CAS: 110-43-0, EC: 203-767-1



B.6/3 Flam. Liq. 3 H226



A.1/4/Oral Acute Tox. 4 H302



A.1/4/Inhal Acute Tox. 4 H332

>= 12.5% - < 20% n-butyl acetate

REACH No.: 01-2119485493-29-xxxx, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1



B.6/3 Flam. Liq. 3 H226



A.8/3 STOT SE 3 H336

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>= 0.5% - < 1% xylene [isomer mixture]

REACH No.: 01-2119488216-32-xxxx, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7



B.6/3 Flam. Liq. 3 H226



A.10/1 Asp. Tox. 1 H304



A.3/2A Eye Irrit. 2A H319



A.8/3 STOT SE 3 H335



A.9/2 STOT RE 2 H373



A.2/2 Skin Irrit. 2 H315



A.1/4/Dermal Acute Tox. 4 H312



A.1/4/Inhal Acute Tox. 4 H332

>= 0.25% - < 0.5% isobutyl methacrylate

Index number: 607-113-00-X, CAS: 97-86-9, EC: 202-613-0



B.6/3 Flam. Liq. 3 H226



A.3/2A Eye Irrit. 2A H319



A.8/3 STOT SE 3 H335



A.2/2 Skin Irrit. 2 H315



A.4.2/1 Skin Sens. 1 H317



US-HAE/A1 Aquatic Acute 1 H400

>= 0.25% - < 0.5% toluene

REACH No.: 01-2119471310-51-xxxx, Index number: 601-021-00-3, CAS: 108-88-3, EC: 203-625-9



B.6/2 Flam. Liq. 2 H225



A.7/2 Repr. 2 H361



A.10/1 Asp. Tox. 1 H304



A.9/2 STOT RE 2 H373



A.2/2 Skin Irrit. 2 H315



A.8/3 STOT SE 3 H336

>= 0.2% - < 0.25% ethylbenzene

REACH No.: 01-2119489370-35-xxxx, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4



A.10/1 Asp. Tox. 1 H304



A.2/2 Skin Irrit. 2 H315



A.6/2 Carc. 2 H351



A.9/2 STOT RE 2 H373



B.6/2 Flam. Liq. 2 H225



A.1/4/Inhal Acute Tox. 4 H332

>= 0.1% - < 0.2% 2-hydroxyethyl methacrylate

REACH No.: 01-2119490169-29-xxxx, Index number: 607-124-00-X, CAS: 868-77-9, EC: 212-782-2



A.3/2A Eye Irrit. 2A H319



A.2/2 Skin Irrit. 2 H315



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A.4.2/1 Skin Sens. 1 H317

$\geq 0.1\%$ - $< 0.2\%$ Poly(oxy-1,2-ethanediyl),
alpha-[3-[3-(2h-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-omega-hydroxy-]-
CAS: 104810-48-2



A.4.2/1A Skin Sens. 1A H317

US-HAE/A2 Aquatic Acute 2 H401



US-HAE/C2 Aquatic Chronic 2 H411

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.
Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

In case of fire: Use a CO₂, Foam, Chemical powders for extinction.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties:

N.A.

Oxidizing properties:

N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.
Remove all sources of ignition.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Remove persons to safety.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Exercise the greatest care when handling or opening the container.
Do not use on extensive surface areas in premises where there are occupants.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.



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Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from flame and sparks. Avoid accumulating electrostatic charge.

Place recipients on the ground whilst decanting, and wear anti-static clothing and shoes.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

Storage temperature:

Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

heptan-2-one; methyl amyl ketone - CAS: 110-43-0

(OEL (IT)) - TWA(8h): 238 mg/m³, 50 ppm - STEL: 475 mg/m³, 100 ppm - Behaviour: Binding - Notes: pelle

EU - TWA(8h): 238 mg/m³, 50 ppm - STEL: 475 mg/m³, 100 ppm - Notes: Skin

ACGIH - TWA: 233.5 mg/m³, 50 ppm

EU - TWA(8h): 238 mg/m³, 50 ppm - STEL: 475 mg/m³, 100 ppm - Notes: Skin

ACGIH - TWA(8h): 50 ppm - Notes: Eye and skin irr

n-butyl acetate - CAS: 123-86-4

TWA (Italia) - TWA: 150 ppm - STEL: 200 ppm

ACGIH - TWA: 150 ppm - STEL: 200 ppm - Notes: Eye and URT irr

xylene [isomer mixture] - CAS: 1330-20-7

(OEL (IT)) - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Behaviour: Binding - Notes: pelle

EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin

ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

toluene - CAS: 108-88-3

(OEL (IT)) - TWA(8h): 192 mg/m³, 50 ppm - Behaviour: Binding - Notes: Pelle

EU - TWA(8h): 192 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss

ethylbenzene - CAS: 100-41-4

(OEL (IT)) - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Behaviour: Binding - Notes: pelle

EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair

DNEL Exposure Limit Values

heptan-2-one; methyl amyl ketone - CAS: 110-43-0

Worker Industry: 1516 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 54.27 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 394.25 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 23.32 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 84.31 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 23.32 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

n-butyl acetate - CAS: 123-86-4

Worker Professional: 600 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 300 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 11 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Consumer: 300 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 35.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 6 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

xylene [isomer mixture] - CAS: 1330-20-7

Worker Industry: 180 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 77 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 108 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1872 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 12.5 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

toluene - CAS: 108-88-3

Consumer: 226 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 226 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 226 mg/m³ - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 56.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 8.13 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 384 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 384 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 192 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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ethylbenzene - CAS: 100-41-4
 Worker Industry: 180 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Industry: 293 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
 Worker Industry: 77 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

2-hydroxyethyl methacrylate - CAS: 868-77-9
 Worker Industry: 1.3 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Industry: 4.9 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Consumer: 0.83 mg/cm2 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Consumer: 2.9 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Consumer: 0.83 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

heptan-2-one; methyl amyl ketone - CAS: 110-43-0
 Target: Fresh Water - Value: 0.0982 mg/l
 Target: Marine water - Value: 0.00982 mg/l
 Target: occasional emission - Value: 0.982 mg/l
 Target: Freshwater sediments - Value: 1.89 mg/kg dwt
 Target: Marine water sediments - Value: 0.189 mg/kg dwt
 Target: Soil (agricultural) - Value: 0.321 mg/kg dwt
 Target: STP - Value: 12.5 mg/l

n-butyl acetate - CAS: 123-86-4
 Target: Fresh Water - Value: 0.18 mg/l
 Target: Marine water - Value: 0.018 mg/l
 Target: Freshwater sediments - Value: 0.981 mg/kg
 Target: Marine water sediments - Value: 0.0981 mg/kg
 Target: Soil (agricultural) - Value: 0.0903 mg/kg
 Target: STP - Value: 35.6 mg/l

xylene [isomer mixture] - CAS: 1330-20-7
 Target: Fresh Water - Value: 0.327 mg/l
 Target: Fresh Water - Value: 0.327 mg/l
 Target: occasional emission - Value: 0.327 mg/l
 Target: Microorganisms in sewage treatments - Value: 6.58 mg/l
 Target: Soil (agricultural) - Value: 2.31 mg/kg - Notes:: dry
 Target: Marine water sediments - Value: 12.46 mg/kg - Notes:: dry
 Target: Freshwater sediments - Value: 12.46 mg/kg - Notes:: dry

toluene - CAS: 108-88-3
 Target: Fresh Water - Value: 0.68 mg/l
 Target: Marine water - Value: 0.68 mg/l
 Target: Soil (agricultural) - Value: 2.89 mg/kg
 Target: Marine water sediments - Value: 16.39 mg/l
 Target: Freshwater sediments - Value: 16.39 mg/l
 Target: STP - Value: 13.61 mg/l

ethylbenzene - CAS: 100-41-4
 Target: Fresh Water - Value: 0.1 mg/l
 Target: Marine water - Value: 0.01 mg/l
 Target: Marine water sediments - Value: 13.7 mg/l
 Target: Freshwater sediments - Value: 13.7 mg/l
 Target: occasional emission - Value: 0.1 mg/l

2-hydroxyethyl methacrylate - CAS: 868-77-9
 Target: Fresh Water - Value: 0.482 mg/l
 Target: Marine water - Value: 0.482 mg/l
 Target: STP - Value: 10 mg/l
 Target: occasional emission - Value: 1 mg/l
 Target: Freshwater sediments - Value: 3.79 mg/kg
 Target: Marine water sediments - Value: 3.79 mg/kg
 Target: Soil (agricultural) - Value: 0.476 mg/kg

Appropriate engineering controls:
 None

Individual protection measures

Eye protection:
 Use close fitting safety goggles, don't use eye lens.

Protection for skin:
 Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:
 Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:
 Not needed for normal use.

Thermal Hazards:
 None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: liquid

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Odour:	characteristic
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	< 1° C
Initial boiling point and boiling range:	> 55° C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	< 21°C - < 69.8 °F
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	0.9700 Kg/l a 20°C
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	> 250° C
Decomposition temperature:	N.A.
Viscosity (typical value):	18.00 " Din cup # 4
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

Reactivity
It may generate dangerous reactions (See subsections below)

Chemical stability
It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions
No dangerous reaction is stored and used appropriately.

Conditions to avoid
Avoid accumulating electrostatic charge.
Vapours can form explosive mixtures with air.

Incompatible materials
Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products
None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Toxicological information of the product:
N.A.

Toxicological information of the main substances found in the product:
heptan-2-one; methyl amyl ketone - CAS: 110-43-0

a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1670 mg/kg - Notes: 0
Test: LD50 - Route: Skin - Species: Rabbit = 13000 mg/kg

n-butyl acetate - CAS: 123-86-4

a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat > 21 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 10736 mg/kg - Notes: Method OECD linee guide 402
Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg

xylene [isomer mixture] - CAS: 1330-20-7

a) acute toxicity:
Test: LD50 - Route: Inhalation - Species: Rat = 27 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 12126 mg/kg

toluene - CAS: 108-88-3

a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 636 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 12267 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat 25.7 mg/l - Duration: 4h

ethylbenzene - CAS: 100-41-4

a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit = 15400 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 4000 Ppm - Duration: 4h

d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin - Species: Cavia porcellus Negative

2-hydroxyethyl methacrylate - CAS: 868-77-9

a) acute toxicity:



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- Test: LD50 - Route: Oral > 5000 mg/kg body weight
Test: LD50 - Route: Skin > 5000 mg/kg body weight
- b) skin corrosion/irritation:
Test: Skin Corrosive Negative
- c) serious eye damage/irritation:
Test: Eye Irritant Positive
- d) respiratory or skin sensitisation:
Test: Skin Sensitization Positive
- f) carcinogenicity:
Test: Carcinogeneticity Negative
- g) reproductive toxicity:
Test: Reproductive Toxicity Negative
- Poly(oxy-1,2-ethanediyl), alpha-[3-[3-(2h-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-omega-hydroxy-]- - CAS: 104810-48-2
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: (OECD Guideline 401) - Notes: No mortality was observed
Test: LC0 - Route: Inhalation - Species: Rat > 5.8 mg/l - Duration: 14 d - Notes: No mortality was observed
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: (OECD Guideline 402) - Notes: No mortality was observed
- b) skin corrosion/irritation:
Test: Skin Irritant - Species: Rabbit Negative - Source: (OECD Guideline 405) - Notes: Assessment of irritating effects: may cause slight irritation to the skin.
- c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Negative - Source: (OECD Guideline 404) - Notes: Assessment of irritating effects: May cause slight irritation to the eyes
- d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: Cavia porcellus Positive - Source: (OECD Guideline 405)

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

xylene [isomer mixture] - Group 3

toluene - Group 3

ethylbenzene - Group 2B.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 64 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia = 73 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae = 674 mg/l - Duration h: 72

xylene [isomer mixture] - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 3.2 mg/l - Duration h: 96

Endpoint: LC50 - Species: Algae = 2.6 mg/l - Duration h: 73

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 12500 Ppm - Duration h: 72

Endpoint: EC50 - Species: Algae > 433 Ppm - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 1000 Ppm - Duration h: 504

ethylbenzene - CAS: 100-41-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 42.3 mg/l - Duration h: 96

2-hydroxyethyl methacrylate - CAS: 868-77-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: OCSE n. 203

Endpoint: EC50 - Species: Daphnia = 380 mg/l - Duration h: 48 - Notes: OECD 202

Endpoint: EC50 - Species: Algae = 836 mg/l - Duration h: 72 - Notes: OECD 201 / DIN38412 -2

Poly(oxy-1,2-ethanediyl), alpha-[3-[3-(2h-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-omega-hydroxy-]- - CAS: 104810-48-2

a) Aquatic acute toxicity:

Species: Daphnia = 1 mg/l - Notes: 21 d

Persistence and degradability

N.A.



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Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

None

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

UN number

ADR-UN Number: 1263

DOT-UN Number: 1263

IATA-UN Number: 1263

IMDG-UN Number: 1263

UN proper shipping name

ADR-Shipping Name: Paint Related material

DOT-Shipping Name: Paint Related material

IATA-Shipping Name: Paint Related material

IMDG-Shipping Name: Paint Related material

Transport hazard class(es)

ADR-Class: 3

DOT-Class: 3

IATA-Class: 3

IMDG-Class: 3

Packing group

ADR-Packing Group: II

DOT-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No

Special precautions

ADR-Tunnel Restriction Code: D/E

DOT-Special provisions: 149, B52, IB2, T4, TP1, TP8, TP28

IATA-Passenger Aircraft: 353

IATA-Cargo Aircraft: 364

IATA-S.P.: A72

IATA-ERG: 8L

IMDG-EmS: F-E, S-E

IMDG-Storage category: B

IMDG-Storage notes: None

N.A.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.

TSCA listed substances:

n-butyl acetate is listed in TSCA Section 4, Section 12b

isobutyl methacrylate is listed in TSCA Section 8a - PAIR

toluene is listed in TSCA Section 8a - CAIR

ethylbenzene is listed in TSCA Section 4.

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 – Hazardous substances: no substances listed.

Section 313 – Toxic chemical list: xylene [isomer mixture], toluene, ethylbenzene.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: n-butyl acetate - Reportable quantity: 5000 pounds

xylene [isomer mixture] - Reportable quantity: 100 pounds

toluene - Reportable quantity: 1000 pounds

ethylbenzene - Reportable quantity: 1000 pounds.



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Reportable quantity for mixture: 12500 pounds.

CAA - Clean Air Act

CAA listed substances:

n-butyl acetate is listed in CAA Section 111

xylene [isomer mixture] is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

toluene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

ethylbenzene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON.

CWA - Clean Water Act

CWA listed substances:

n-butyl acetate is listed in CWA Section 311, Section 304

xylene [isomer mixture] is listed in CWA Section 311, Section 304

toluene is listed in CWA Section 311, Section 304, Section 307

ethylbenzene is listed in CWA Section 311, Section 304, Section 307.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

toluene - Listed as reproductive toxicant

ethylbenzene - Listed as carcinogen.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

n-butyl acetate

xylene [isomer mixture]

toluene

ethylbenzene.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

n-butyl acetate

xylene [isomer mixture]

isobutyl methacrylate

toluene

ethylbenzene.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

n-butyl acetate

xylene [isomer mixture]

toluene

ethylbenzene.

16. OTHER INFORMATION

Text of phrases referred to under heading 3:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H315 Causes skin irritation.

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H225 Highly flammable liquid and vapour.

H361 Suspected of damaging fertility or the unborn child.

H351 Suspected of causing cancer.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.



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GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average