

1 Identification

· **Product identifier**

- *Product number* TS0002
- *Trade name:* **ACR CLEAR TOPCOAT 55SH**
- *Application of the substance / the mixture* For professional use

· **Details of the supplier of the safety data sheet**

- *Manufacturer/Supplier:*
IVM Chemicals Srl
Viale della Stazione 3 -27020 Parona (PV)Italy -Tel +39 038425441
- *Information department:*
Environmental Health and safety office
hseoffice@ivmchemicals.com
- *Emergency telephone number:*
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

· **Classification of the substance or mixture**

| | |
|--|--|
| Flammable Liquids 2 | H225 Highly flammable liquid and vapor. |
| Skin Irritation 2 | H315 Causes skin irritation. |
| Eye Irritation 2A | H319 Causes serious eye irritation. |
| Sensitization - Skin 1 | H317 May cause an allergic skin reaction. |
| Carcinogenicity 2 | H351 Suspected of causing cancer. |
| Toxic to Reproduction 2 | H361 Suspected of damaging fertility or the unborn child. |
| Specific Target Organ Toxicity - Single Exposure 3 | H336 May cause drowsiness or dizziness. |
| Specific Target Organ Toxicity - Repeated Exposure 2 | H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation. |
| Aspiration Hazard 1 | H304 May be fatal if swallowed and enters airways. |

· **Label elements**

· *GHS label elements*

The product is classified and labeled according to the Globally Harmonized System (GHS).

· *Hazard pictograms*



GHS02 GHS07 GHS08

· *Signal word* Danger

· *Hazard-determining components of labeling:*

xylene
n-butyl acetate
ethylbenzene
toluene
methyl methacrylate
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

(Contd. on page 2)

Product number TS0002**Trade name: ACR CLEAR TOPCOAT 55SH**

(Contd. of page 1)

· Hazard statements

- H225 Highly flammable liquid and vapor.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.
 H361 Suspected of damaging fertility or the unborn child.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.
 H304 May be fatal if swallowed and enters airways.

· Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P301+P310 If swallowed: Immediately call a poison center/doctor.
 P321 Specific treatment (see on this label).
 P331 Do NOT induce vomiting.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:**· NFPA ratings (scale 0 - 4)****· HMIS-ratings (scale 0 - 4)**






| | | |
|------------|---|----------------|
| HEALTH | 2 | Health = 2 |
| FIRE | 3 | Fire = 3 |
| REACTIVITY | 0 | Reactivity = 0 |

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:

| | | |
|-----------|--|-----------|
| 123-86-4 | n-butyl acetate  Flammable Liquids 3, H226  Specific Target Organ Toxicity - Single Exposure 3, H336 | 30-39.99% |
| 1330-20-7 | xylene  Flammable Liquids 3, H226  Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304  Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335 Aquatic Acute 3, H402; Aquatic Chronic 3, H412 | 12.5-15% |

(Contd. on page 3)

Product number TS0002
Trade name: ACR CLEAR TOPCOAT 55SH

| (Contd. of page 2) | | |
|--------------------|---|-------------|
| 108-65-6 | 2-methoxy-1-methylethyl acetate ⚠ Flammable Liquids 3, H226 ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336 | 5-9.99% |
| 67-64-1 | acetone ⚠ Flammable Liquids 2, H225 ⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336 | 5-9.99% |
| 141-78-6 | ethyl acetate ⚠ Flammable Liquids 2, H225 ⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336 | 5-9.99% |
| 100-41-4 | ethylbenzene ⚠ Flammable Liquids 2, H225 ⚠ Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 ⚠ Acute Toxicity - Inhalation 4, H332 Aquatic Chronic 3, H412 | 2.5-4.99% |
| 108-88-3 | toluene ⚠ Flammable Liquids 2, H225 ⚠ Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 ⚠ Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336 Aquatic Chronic 3, H412 | 1-2.49% |
| 110-19-0 | isobutyl acetate ⚠ Flammable Liquids 2, H225 ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336 | 1-2.49% |
| 80-62-6 | methyl methacrylate ⚠ Flammable Liquids 2, H225 ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335 | ≥0.1-<0.5% |
| | Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) ⚠ Aquatic Chronic 2, H411 ⚠ Sensitization - Skin 1, H317 | ≥0.1-<0.25% |

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

personal protective equipment for first aid responders is recommended. (please see section 8)

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 4)

Product number TS0002**Trade name: ACR CLEAR TOPCOAT 55SH**

(Contd. of page 3)

- **After skin contact:**
 Immediately wash with water and soap and rinse thoroughly.
 Take off immediately all contaminated clothing, include underwear and shoes (if necessary).
 Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.
- **After eye contact:**
 Rinse opened eye for several minutes under running water. If symptoms persist , consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
 - **Most important symptoms and effects, both acute and delayed**
 Allergic reactions
 For symptoms and effects caused by substances, refer to Section 11.
 - **Indication of any immediate medical attention and special treatment needed**
 No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:**
 Alcohol resistant foam
 Alcohol resistant foam, CO, powder, water spray/mist.
 - **For safety reasons unsuitable extinguishing agents:**
 Do not use a jet water stream as it may scatter and spread fire.
- **Special hazards arising from the substance or mixture**
 During heating or in case of fire poisonous gases are produced.
 In case of fire, the following can be released:
 Nitrogen oxides (NOx)
 Carbon monoxide (CO)
- **Advice for firefighters**
 Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.
 - **Protective equipment:**
 Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 Mount respiratory protective device.
 Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation
 Keep away from ignition sources
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose contaminated material as waste according to Section 13.
 Ensure adequate ventilation.
- **Reference to other sections**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

(Contd. on page 5)

Product number TS0002
Trade name: ACR CLEAR TOPCOAT 55SH

(Contd. of page 4)

· Protective Action Criteria for Chemicals

| · PAC-1: | | |
|-----------------|---------------------------------|-------------|
| 123-86-4 | <i>n</i> -butyl acetate | 5 ppm |
| 1330-20-7 | xylene | 130 ppm |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | 50 ppm |
| 67-64-1 | acetone | 200 ppm |
| 141-78-6 | ethyl acetate | 1,200 ppm |
| 100-41-4 | ethylbenzene | 33 ppm |
| 108-88-3 | toluene | 67 ppm |
| 110-19-0 | isobutyl acetate | 450 ppm |
| 9002-88-4 | Polyethylene low density | 16 mg/m |
| 80-62-6 | methyl methacrylate | 17 ppm |
| · PAC-2: | | |
| 123-86-4 | <i>n</i> -butyl acetate | 200 ppm |
| 1330-20-7 | xylene | 920* ppm |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | 1,000 ppm |
| 67-64-1 | acetone | 3200* ppm |
| 141-78-6 | ethyl acetate | 1,700 ppm |
| 100-41-4 | ethylbenzene | 1100* ppm |
| 108-88-3 | toluene | 560 ppm |
| 110-19-0 | isobutyl acetate | 1300* ppm |
| 9002-88-4 | Polyethylene low density | 170 mg/m |
| 80-62-6 | methyl methacrylate | 120 ppm |
| · PAC-3: | | |
| 123-86-4 | <i>n</i> -butyl acetate | 3000* ppm |
| 1330-20-7 | xylene | 2500* ppm |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | 5000* ppm |
| 67-64-1 | acetone | 5700* ppm |
| 141-78-6 | ethyl acetate | 10000** ppm |
| 100-41-4 | ethylbenzene | 1800* ppm |
| 108-88-3 | toluene | 3700* ppm |
| 110-19-0 | isobutyl acetate | 7500** ppm |
| 9002-88-4 | Polyethylene low density | 1,000 mg/m |
| 80-62-6 | methyl methacrylate | 570 ppm |

7 Handling and storage

· Handling:
· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Protect against electrostatic charges.

Keep respiratory protective device available.

Use explosion-proof apparatus / fittings and spark-proof tools.

(Contd. on page 6)

Product number TS0002**Trade name: ACR CLEAR TOPCOAT 55SH**

(Contd. of page 5)

- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
 - Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
 - Store in a cool, well-ventilated area, away from heat and sources of ignition
 - Provide solvent resistant, sealed floor.
 - Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
 - In cases where there is no reported expiration date, it means that the product must be used within 8 months.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:**
 - Keep receptacle tightly sealed.
 - Store in cool, dry conditions in well sealed receptacles.
 - **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
 - **Components with limit values that require monitoring at the workplace:**
 - The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
 - At this time, the remaining constituent has no known exposure limits.

123-86-4 n-butyl acetate

| | |
|-----|---|
| PEL | Long-term value: 710 mg/m , 150 ppm |
| REL | Short-term value: 950 mg/m , 200 ppm Long-term value: 710 mg/m , 150 ppm |
| TLV | Short-term value: 150 ppm Long-term value: 50 ppm |

1330-20-7 xylene

| | |
|-----|---|
| PEL | Long-term value: 435 mg/m , 100 ppm |
| REL | Short-term value: 655 mg/m , 150 ppm Long-term value: 435 mg/m , 100 ppm |
| TLV | Short-term value: (150) ppm Long-term value: (100) NIC-20 ppm BEI, A4 |

108-65-6 2-methoxy-1-methylethyl acetate

| | |
|------|-------------------------|
| WEEL | Long-term value: 50 ppm |
|------|-------------------------|

67-64-1 acetone

| | |
|-----|--|
| PEL | Long-term value: 2400 mg/m , 1000 ppm |
| REL | Long-term value: 590 mg/m , 250 ppm |
| TLV | Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI |

(Contd. on page 7)

Product number TS0002**Trade name: ACR CLEAR TOPCOAT 55SH**

(Contd. of page 6)

141-78-6 ethyl acetate

| | |
|-----|--------------------------------------|
| PEL | Long-term value: 1400 mg/m , 400 ppm |
| REL | Long-term value: 1400 mg/m , 400 ppm |
| TLV | Long-term value: 400 ppm |

100-41-4 ethylbenzene

| | |
|-----|---|
| PEL | Long-term value: 435 mg/m , 100 ppm |
| REL | Short-term value: 545 mg/m , 125 ppm Long-term value: 435 mg/m , 100 ppm |
| TLV | Long-term value: 20 NIC-20 ppm BEI, A3, NIC: OTO, BEI, A3 |

108-88-3 toluene

| | |
|-----|---|
| PEL | Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift |
| REL | Short-term value: 560 mg/m , 150 ppm Long-term value: 375 mg/m , 100 ppm |
| TLV | Long-term value: 20 ppm BEI, OTO, A4 |

110-19-0 isobutyl acetate

| | |
|-----|--|
| PEL | Long-term value: 700 mg/m , 150 ppm |
| REL | Long-term value: 700 mg/m , 150 ppm |
| TLV | Short-term value: 150 ppm Long-term value: 50 ppm |

80-62-6 methyl methacrylate

| | |
|-----|--|
| PEL | Long-term value: 410 mg/m , 100 ppm |
| REL | Long-term value: 410 mg/m , 100 ppm |
| TLV | Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4 |

· Ingredients with biological limit values:**1330-20-7 xylene**

| | |
|-----|--|
| BEI | 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids |
|-----|--|

67-64-1 acetone

| | |
|-----|--|
| BEI | 25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) |
|-----|--|

100-41-4 ethylbenzene

| | |
|-----|---|
| BEI | 0.15 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific) |
|-----|---|

(Contd. on page 8)

Product number TS0002
Trade name: ACR CLEAR TOPCOAT 55SH

(Contd. of page 7)

108-88-3 toluene

BEI 0.02 mg/L
Medium: blood
Time: prior to last shift of workweek
Parameter: Toluene

0.03 mg/L
Medium: urine
Time: end of shift
Parameter: Toluene

0.3 mg/g creatinine
Medium: urine
Time: end of shift
Parameter: o-Cresol with hydrolysis (background)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.
- Pregnant women should strictly avoid inhalation or skin contact.

· **Breathing equipment:**

- Short term filter device:
- Filter AX



Suitable respiratory protective device recommended.

· **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product .

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 9)

Product number TS0002
Trade name: ACR CLEAR TOPCOAT 55SH

(Contd. of page 8)

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:

Fluid

· Color:

According to product specification

· Odor:

Characteristic

· Odor threshold:

Not determined.

· pH-value:

Mixture is non-polar/aprotic.

· Change in condition

· Melting point/Melting range:

Undetermined.

· Boiling point/Boiling range:

56 °C (132.8 °F)

· Flash point:

-17 °C (1.4 °F)

· Flammability (solid, gaseous):

Not applicable.

· Ignition temperature:

405 °C (761 °F)

· Decomposition temperature:

Not determined.

· Auto igniting:

Product is not selfigniting.

· Danger of explosion:

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

· Lower:

1 Vol %

· Upper:

13 Vol %

· Vapor pressure at 20 °C (68 °F):

233 hPa (174.8 mm Hg)

· Density (+/- 0,03) at 20 °C (68 °F):

0.929 g/cm (7.753 lbs/gal)

· Relative density

Not determined.

· Vapor density

Not determined.

· Evaporation rate

Not determined.

· Solubility in / Miscibility with

· Water:

Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water):

Not determined.

· Viscosity:

· Dynamic:

Not determined.

· Kinematic at 20 °C (68 °F):

40 s (ISO 4 mm)

· Oxidising properties:

N.A.

· Solvent content:

· Water:

0.0 %

· VOC content:

67.86 %

630.5 g/l / 5.26 lb/gal

(Contd. on page 10)

Product number TS0002
Trade name: ACR CLEAR TOPCOAT 55SH

(Contd. of page 9)

| | | |
|-----------------------------------|---------------------|--|
| · Solids content: | | 25.1 % |
| · Other information (HAPS) | | |
| 1330-20-7 | xylene | 12.5-15% |
| 100-41-4 | ethylbenzene | 2.5-4.99% |
| 108-88-3 | toluene | 1-2.49% |
| 80-62-6 | methyl methacrylate | ≥0.1-<0.5% |
| · Other information | | No further relevant information available. |

10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet
- **Chemical stability** The product is stable in normal conditions of storage and use recommended
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Reacts with oxidizing agents.
Vapours may form explosive mixtures with air
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Acids, alkalis and oxidizing agents
- **Hazardous decomposition products:**

in case of possible formation of combustion:
Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**

| | | |
|---|----------|----------------------------------|
| · LD/LC50 values that are relevant for classification: | | |
| ATE (Acute Toxicity Estimate) | | |
| Dermal | LD50 | 8,624 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 72.9 mg/l (mouse) |
| 123-86-4 n-butyl acetate | | |
| Oral | LD50 | 10,760 mg/kg (mouse) |
| Dermal | LD50 | 14,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 21.1 mg/l (mouse) |
| 1330-20-7 xylene | | |
| Oral | LD50. | 3,523 mg/kg (mouse) |
| Dermal | LD50 | 1,100 mg/kg (rabbit) (ATE value) |
| | LD50. | 12,126 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 11 mg/l (mouse) (ATE value) |
| | LC50/4h. | 27.571 mg/l (mouse) |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| Oral | LD50 | 8,532 mg/kg (mouse) |
| Dermal | LD50 | 5,001 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 35.7 mg/l (mouse) |

(Contd. on page 11)

Product number TS0002**Trade name: ACR CLEAR TOPCOAT 55SH**

(Contd. of page 10)

67-64-1 acetone

| | | |
|------------|----------|-----------------------|
| Oral | LD50 | 5,800 mg/kg (mouse) |
| Dermal | LD50 | 20,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 76 mg/l (mouse) |

141-78-6 ethyl acetate

| | | |
|------------|----------|-----------------------|
| Oral | LD50 | 4,934 mg/kg (rabbit) |
| Dermal | LD50 | 20,001 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 1,600 mg/l (mouse) |
| | LC0 | 22.6 ppm (mouse) |

100-41-4 ethylbenzene

| | | |
|------------|----------|-----------------------|
| Oral | LD50 | 3,500 mg/kg (mouse) |
| Dermal | LD50 | 15,486 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 17.2 mg/l (mouse) |

108-88-3 toluene

| | | |
|------------|----------|-----------------------|
| Oral | LD50 | 5,000 mg/kg (mouse) |
| Dermal | LD50 | 12,124 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 25.7 mg/l (mouse) |

110-19-0 isobutyl acetate

| | | |
|------------|----------|-----------------------|
| Oral | LD50 | 13,400 mg/kg (mouse) |
| Dermal | LD50 | 17,401 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 31 mg/l (mouse) |

80-62-6 methyl methacrylate

| | | |
|------------|----------|----------------------|
| Oral | LD50 | 7,872 mg/kg (mouse) |
| Dermal | LD50 | 5,001 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 78 mg/l (mouse) |

Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

| | | |
|--------|------|----------------------------------|
| Oral | LD50 | 5,001 mg/kg (mouse) (OECD - 401) |
| Dermal | LD50 | 2,001 mg/kg (mouse) (OECD - 402) |

- **Primary irritant effect:**

- *on the skin:* Irritant to skin and mucous membranes.
- *on the eye:* Irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

Irritant

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.

May be fatal if swallowed and enters airways.

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

(Contd. on page 12)

US

Product number TS0002**Trade name: ACR CLEAR TOPCOAT 55SH**

(Contd. of page 11)

· **Carcinogenic categories**

Ethylbenzene

From IARC MONOGRAPHS VOLUME 77/2000

Human carcinogenicity data

Two studies of workers potentially exposed to ethylbenzene in a production plant and a styrene polymerization plant were available. In the first study, no excess of cancer incidence was found but the description of methods was insufficient to allow proper evaluation of this finding. In the second study, no cancer mortality excess was observed during the follow-up of 15 years.

Evaluation

There is inadequate evidence in humans for the carcinogenicity of ethylbenzene. There is sufficient evidence in experimental animals for the carcinogenicity of ethylbenzene.

· **IARC (International Agency for Research on Cancer - Cl. 1 and 2)**

100-41-4 ethylbenzene

2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**· **Aquatic toxicity:****123-86-4 n-butyl acetate**

EC50 397 mg/l (algae) (72 h)
 44 mg/l (daphnia) (48 h)

LC50 (96h) 18 mg/l (Fish)

1330-20-7 xylene

EC50 2.2 mg/l (algae)
 LC50 48h 1 mg/l (daphnia)

LC50 (96h) 2.6 mg/l (Fish)

108-65-6 2-methoxy-1-methylethyl acetate

EC50 1,001 mg/l (algae) (72 h)
 501 mg/l (daphnia) (48 h)

LC50 (96h) 134 mg/l (Fish)

67-64-1 acetone

EC50 8,800 mg/l (daphnia)

LC50 (96h) 5,540 mg/l (Fish)

141-78-6 ethyl acetate

EC50 165 mg/l (daphnia) (48 h)

LC50 (96h) 230 mg/l (Fish)

100-41-4 ethylbenzene

EC50 438 mg/l (algae) (72h)

1.8 mg/l (daphnia) (48 h)

LC50 (96h) 12.1 mg/l (Fish)

(Contd. on page 13)

Product number TS0002
Trade name: ACR CLEAR TOPCOAT 55SH

(Contd. of page 12)

108-88-3 toluene

| | |
|------------|---|
| EC50 | 134 mg/l (algae) (96 h) 3.78 mg/l (daphnia) (48 h) |
| LC50 (96h) | 5.5 mg/l (Fish) |

110-19-0 isobutyl acetate

| | |
|------------|--|
| EC50 | 370 mg/l (algae) (72 h) 25 mg/l (daphnia) |
| LC50 (96h) | 17 mg/l (Fish) |

80-62-6 methyl methacrylate

| | |
|------------|-------------------------|
| EC50 | 170 mg/l (algae) (72 h) |
| LC50 (96h) | 191 mg/l (Fish) |

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

| | |
|------------|---|
| EC50 | 4.1 mg/l (algae) (72 h) 20 mg/l (daphnia) (48 h) |
| LC50 (96h) | 20 mg/l (Fish) |

Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

| | |
|------------|---|
| EC50 | 101 mg/l (algae) (72h) 4 mg/l (daphnia) (OECD linee guida 202 parte 1) |
| LC50 (96h) | 2.8 mg/l (Leuciscus idus melanotus) (OECD linee guida 203) |

· **Persistence and degradability** No further relevant information available.

· **Substances Easily biodegradable**

| | | |
|-----------|---------------------------------|---|
| 123-86-4 | n-butyl acetate | . |
| 1330-20-7 | xylene | . |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | . |
| 67-64-1 | acetone | . |
| 141-78-6 | ethyl acetate | . |
| 100-41-4 | ethylbenzene | . |
| 108-88-3 | toluene | . |
| 110-19-0 | isobutyl acetate | . |

· **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **Other adverse effects** No further relevant information available.

US

(Contd. on page 14)

Product number TS0002
Trade name: ACR CLEAR TOPCOAT 55SH

(Contd. of page 13)

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

Dispose of contents and container in accordance with local state and federal regulations.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

- DOT, IMDG, IATA

UN1263

- Note

Check viscosity and flash point at section 9

- **UN proper shipping name**

- DOT

Paint

- IMDG, IATA

PAINT

- **Transport hazard class(es)**

- DOT



- Class

3 Flammable liquids

- Label

3

- Class

3 Flammable liquids

- Label

3

- IMDG, IATA



- Class

3 Flammable liquids

- Label

3

- **Packing group**

- DOT, IMDG, IATA

II

- **Environmental hazards:**

- Marine pollutant:

No

- **Special precautions for user**

Warning: Flammable liquids

- Hazard identification number (Kemler code):

33

- EMS Number:

F-E, S-E

- Stowage Category

B

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

(Contd. on page 15)

Product number TS0002
Trade name: ACR CLEAR TOPCOAT 55SH

(Contd. of page 14)

· Transport/Additional information:
· IMDG

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1263 PAINT, 3, II

15 Regulatory information
· Safety, health and environmental regulations/legislation specific for the substance or mixture

- Various regulations
- SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings) :

| | | |
|-----------|---------------------|------------|
| 1330-20-7 | xylene | 12.5-15% |
| 100-41-4 | ethylbenzene | 2.5-4.99% |
| 108-88-3 | toluene | 1-2.49% |
| 80-62-6 | methyl methacrylate | ≥0.1-<0.5% |

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

| | | |
|-----------|---------------------|--|
| 1330-20-7 | xylene | |
| 100-41-4 | ethylbenzene | |
| 108-88-3 | toluene | |
| 80-62-6 | methyl methacrylate | |

· Proposition 65
· Chemicals known to cause cancer:

| | | | |
|----------|--------------|---|-----------|
| 100-41-4 | ethylbenzene | * | 2.5-4.99% |
|----------|--------------|---|-----------|

· Chemicals known to cause reproductive toxicity for females:

| | | |
|------------|-------------------------|-------|
| 70657-70-4 | 2-methoxypropyl acetate | <0.1% |
|------------|-------------------------|-------|

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

| | | |
|----------|---------|---------|
| 108-88-3 | toluene | 1-2.49% |
|----------|---------|---------|

· Carcinogenic categories
· EPA (Environmental Protection Agency)

| | | | |
|-----------|---------|---|----------|
| 1330-20-7 | xylene | I | 12.5-15% |
| 67-64-1 | acetone | I | 5-9.99% |

(Contd. on page 16)

Product number TS0002**Trade name: ACR CLEAR TOPCOAT 55SH**

(Contd. of page 15)

| | | | |
|----------|---------------------|-------|------------|
| 100-41-4 | ethylbenzene | D | 2.5-4.99% |
| 108-88-3 | toluene | II | 1-2.49% |
| 80-62-6 | methyl methacrylate | E, NL | ≥0.1-<0.5% |

· **TLV (Threshold Limit Value)**

| | | |
|-----------|---------------------|----|
| 1330-20-7 | xylene | A4 |
| 67-64-1 | acetone | A4 |
| 100-41-4 | ethylbenzene | A3 |
| 108-88-3 | toluene | A4 |
| 80-62-6 | methyl methacrylate | A4 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** IVM Chemicals Srl

- **Contact:** See emergency phone

- **Date of preparation / last revision** 09/07/2022 / 8

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids . Category 2

Flammable Liquids 3: Flammable liquids . Category 3

Acute Toxicity - Dermal 4: Acute toxicity . Category 4

Skin Irritation 2: Skin corrosion/irritation . Category 2

Eye Irritation 2A: Serious eye damage/eye irritation . Category 2A

Sensitization - Skin 1: Skin sensitisation . Category 1

Carcinogenicity 2: Carcinogenicity . Category 2

Toxic to Reproduction 2: Reproductive toxicity . Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) . Category 3

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) . Category 2

Aspiration Hazard 1: Aspiration hazard . Category 1

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard . Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard . Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard . Category 3

· **Sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments

(Contd. on page 17)

Safety Data Sheet

acc. to OSHA HCS

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Product number TS0002**Trade name: ACR CLEAR TOPCOAT 55SH**

(Contd. of page 16)

Agency ECHA web site
INRS Fiche Toxicologique
IARC International agency for research on cancer
· * *Data compared to the previous version altered.*

US