

1 Identification

- **Product identifier**
 - Product number LUA432
 - Trade name: **ACR CLEAR SELF S 40SH**
 - 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**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **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:**

n-butyl acetate
xylene
ethylbenzene
toluene

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· Hazard statements

H225 Highly flammable liquid and vapor.
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 organs through prolonged or repeated exposure.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
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.
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)



3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:

| | | |
|-----------|---|-----------|
| 110-19-0 | isobutyl acetate ⚠ Flam. Liq. 2, H225 | 25-29.9% |
| 123-86-4 | n-butyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336 | 15-<25% |
| 141-78-6 | ethyl acetate ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2A, H319; STOT SE 3, H336 | 10-12.49% |
| 1330-20-7 | xylene ⚠ Flam. Liq. 3, H226 ⚠ STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 | 5-9.99% |

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| | | |
|--------------------|---|-----------|
| (Contd. of page 2) | | |
| 67-63-0 | propan-2-ol <ul style="list-style-type: none"> Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336 | 2.5-4.99% |
| 78-93-3 | butanone <ul style="list-style-type: none"> Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336 | 2.5-4.99% |
| 100-41-4 | ethylbenzene <ul style="list-style-type: none"> Flam. Liq. 2, H225 Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332 | 1-2.49% |
| 108-88-3 | toluene <ul style="list-style-type: none"> Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336 Aquatic Chronic 3, H412 | 1-2.49% |
| 80-62-6 | methyl methacrylate <ul style="list-style-type: none"> Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335 | 0.5-<1% |
| 868-77-9 | 2-hydroxyethyl methacrylate <ul style="list-style-type: none"> Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 0.1-<0.5% |

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.

· 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.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· 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

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, 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.

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· **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.

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.

· **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.

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· **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 other constituents have no known exposure limits.

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: 172 mg/m , 150 ppm Long-term value: 238 mg/m , 50 ppm |

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: 712 mg/m , 150 ppm Long-term value: 238 mg/m , 50 ppm |

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: 1440 mg/m , 400 ppm |

67-63-0 propan-2-ol

| | |
|-----|--|
| PEL | Long-term value: 980 mg/m , 400 ppm |
| REL | Short-term value: 1225 mg/m , 500 ppm Long-term value: 980 mg/m , 400 ppm |
| TLV | Short-term value: 984 mg/m , 400 ppm Long-term value: 492 mg/m , 200 ppm BEI |

78-93-3 butanone

| | |
|-----|--|
| PEL | Long-term value: 590 mg/m , 200 ppm |
| REL | Short-term value: 885 mg/m , 300 ppm Long-term value: 590 mg/m , 200 ppm |
| TLV | Short-term value: 885 mg/m , 300 ppm Long-term value: 590 mg/m , 200 ppm BEI |

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: 87 mg/m , 20 ppm BEI |

80-62-6 methyl methacrylate

| | |
|-----|-------------------------------------|
| PEL | Long-term value: 410 mg/m , 100 ppm |
|-----|-------------------------------------|

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REL Long-term value: 410 mg/m , 100 ppm
 TLV Short-term value: 410 mg/m , 100 ppm
 Long-term value: 205 mg/m , 50 ppm
 DSEN

· **Ingredients with biological limit values:**

1330-20-7 xylene

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

67-63-0 propan-2-ol

BEI 40 mg/L
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: Acetone (background, nonspecific)

78-93-3 butanone

BEI 2 mg/L
 Medium: urine
 Time: end of shift
 Parameter: MEK

100-41-4 ethylbenzene

BEI 0.7 g/g creatinine
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

-

Medium: end-exhaled air
 Time: not critical
 Parameter: Ethyl benzene (semi-quantitative)

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.

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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:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• **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.

• **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:**

Not determined.

• **Change in condition**

• **Melting point/Melting range:**

Undetermined.

• **Boiling point/Boiling range:**

77 °C (171 °F)

• **Flash point:**

-4 °C (25 °F)

• **Flammability (solid, gaseous):**

Not applicable.

• **Ignition temperature:**

370 °C (698 °F)

• **Decomposition temperature:**

Not determined.

• **Auto igniting:**

Product is not selfigniting.

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| | | |
|---|--|-----------|
| · <i>Danger of explosion:</i> | Product is not explosive. However, formation of explosive air/vapor mixtures are possible. | |
| · <i>Explosion limits:</i> | | |
| · <i>Lower:</i> | 1.0 Vol % | |
| · <i>Upper:</i> | 12.0 Vol % | |
| · <i>Vapor pressure at 20 °C (68 °F):</i> | 105 hPa (79 mm Hg) | |
| · <i>Density at 20 °C (68 °F):</i> | 0.921 g/cm (7.686 lbs/gal) | |
| · <i>Relative density</i> | Not determined. | |
| · <i>Vapor density</i> | Not determined. | |
| · <i>Evaporation rate</i> | Not determined. | |
| · <i>Solubility in / Miscibility with</i> | | |
| · <i>Water:</i> | Not miscible or difficult to mix. | |
| · <i>Partition coefficient (n-octanol/water):</i> | Not determined. | |
| · <i>Viscosity:</i> | | |
| · <i>Dynamic:</i> | Not determined. | |
| · <i>Kinematic at 20 °C (68 °F):</i> | 25 s (ISO 6 mm) | |
| · <i>Oxidising properties:</i> | N.A. | |
| · <i>Solvent content:</i> | | |
| · <i>VOC content:</i> | 77.3 % 711.3 g/l / 5.94 lb/gl | |
| · <i>Solids content:</i> | 22.7 % | |
| · Other information (HAPS) | | |
| 1330-20-7 | xylene | 5-9,99% |
| 100-41-4 | ethylbenzene | 1-2,49% |
| 108-88-3 | toluene | 1-2,49% |
| 80-62-6 | methyl methacrylate | 0.5-<1% |
| 1330-20-7 | xylene | 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 strong acids and oxidizing agents.
Vapours may form explosive mixtures with air
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
in case of possible formation of combustion:
Carbon monoxide and carbon dioxide

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11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

110-19-0 isobutyl acetate

| | | |
|------------|----------|--|
| Oral | LD50 | 13400 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
| Dermal | LD50 | 17401 mg/kg (Con) |
| Inhalative | LC50/4 h | 31 mg/l (rat/szczur/mouse/souris/Maus/ratón) |

123-86-4 n-butyl acetate

| | | |
|------------|----------|--|
| Oral | LD50 | 10760 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
| Dermal | LD50 | 14000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin) |
| Inhalative | LC50/4 h | 21.1 mg/l (rat/szczur/mouse/souris/Maus/ratón) |

141-78-6 ethyl acetate

| | | |
|------------|----------|---|
| Oral | LD50 | 4934 mg/kg (rabbit/królik/Kaninchen/conejo/lapin) |
| Dermal | LD50 | 20001 mg/kg (Con) |
| Inhalative | LC50/4 h | 1600 mg/l (rat/szczur/mouse/souris/Maus/ratón) |
| | LC0 | 22.6 ppm (mouse) |

1330-20-7 xylene

| | | |
|--------|------|---|
| Oral | LD50 | 3523 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
| Dermal | LD50 | 1701 mg/kg (rabbit/królik/Kaninchen/conejo/lapin) |

67-63-0 propan-2-ol

| | | |
|------------|----------|--|
| Oral | LD50 | 4710 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
| Dermal | LD50 | 12800 mg/kg (rabbit/królik/Kaninchen/conejo/lapin) |
| Inhalative | LC50/4 h | 72.6 mg/l (rat/szczur/mouse/souris/Maus/ratón) |

78-93-3 butanone

| | | |
|------------|------|---|
| Oral | LD50 | 2001 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
| Dermal | LD50 | 5001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin) |
| Inhalative | LC50 | 21 mg/l (rat/szczur/mouse/souris/Maus/ratón) |

100-41-4 ethylbenzene

| | | |
|------------|----------|--|
| Oral | LD50 | 3500 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
| Dermal | LD50 | 15486 mg/kg (rabbit/królik/Kaninchen/conejo/lapin) |
| Inhalative | LC50/4 h | 17.2 mg/l (rat/szczur/mouse/souris/Maus/ratón) |

108-88-3 toluene

| | | |
|------------|----------|--|
| Oral | LD50 | 5000 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
| Dermal | LD50 | 12124 mg/kg (rabbit/królik/Kaninchen/conejo/lapin) |
| Inhalative | LC50/4 h | 25.7 mg/l (rat/szczur/mouse/souris/Maus/ratón) |

80-62-6 methyl methacrylate

| | | |
|------------|----------|---|
| Oral | LD50 | 7872 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
| Dermal | LD50 | 5001 mg/kg (Con) |
| Inhalative | LC50/4 h | 78 mg/l (rat/szczur/mouse/souris/Maus/ratón) |

868-77-9 2-hydroxyethyl methacrylate

| | | |
|------|------|---|
| Oral | LD50 | 5050 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
|------|------|---|

· Primary irritant effect:

· on the skin: No irritant effect.

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- *on the eye:* Irritating effect.
- *Sensitization:* Sensitization possible through skin contact.
- *Additional toxicological information:*
Causes serious eye irritation.
May cause drowsiness or dizziness.
Contains methyl methacrylate, 2-hydroxyethyl methacrylate. May produce an allergic reaction.
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Irritant

· **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)**

| | | |
|-----------|---------------------|----|
| 1330-20-7 | xylene | 3 |
| 67-63-0 | propan-2-ol | 3 |
| 100-41-4 | ethylbenzene | 2B |
| 108-88-3 | toluene | 3 |
| 80-62-6 | methyl methacrylate | 3 |
| 9002-88-4 | polyethylene | 3 |
| 1330-20-7 | xylene | 3 |

· **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:**

110-19-0 isobutyl acetate

EC50 370 mg/l (algae) (72 h)

25 mg/l (daphnia)

LC50 (96h) 17 mg/l (Fish)

123-86-4 n-butyl acetate

EC50 648 mg/l (algae) (72 h)

44 mg/l (daphnia) (48 h)

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

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141-78-6 ethyl acetate

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

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

67-63-0 propan-2-ol

EC50 1001 mg/l (algae) (72 h)

10000 mg/l (daphnia) (24 h)

LC50 (96h) 9640 mg/l (Fish)

78-93-3 butanone

EC50 2029 mg/l (algae) (96 h)

308 mg/l (daphnia) (48 h)

LC50 (96h) 2993 mg/l (Fish)

100-41-4 ethylbenzene

EC50 75 mg/l (daphnia) (48 h)

108-88-3 toluene

EC50 134 mg/l (algae) (3 h)

3.78 mg/l (daphnia) (48 h)

58 mg/l (Fish)

80-62-6 methyl methacrylate

EC50 170 mg/l (algae) (72 h)

LC50 (96h) 191 mg/l (Fish)

868-77-9 2-hydroxyethyl methacrylate

LC50 (96h) 240 mg/l (Fish)

· Persistence and degradability

Data refers to the substance Toluene CAS No. 108-88-3

Readily biodegradable (according to OECD criteria)

· 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.

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.

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14 Transport information

· **UN-Number**

· DOT NA1263
· IMDG, IATA UN1263

· **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
· Danger code (Kemler): 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.

· **Transport/Additional information:**

· IMDG

· Limited quantities (LQ) 5L
· Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II

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15 Regulatory information

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

Requirements of Federal Register

· SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings) :

| | | |
|-----------|---------------------|-----------|
| 1330-20-7 | xylene | 5-9,99% |
| 67-63-0 | propan-2-ol | 2,5-4,99% |
| 78-93-3 | butanone | 2,5-4,99% |
| 100-41-4 | ethylbenzene | 1-2,49% |
| 108-88-3 | toluene | 1-2,49% |
| 80-62-6 | methyl methacrylate | 0.5-<1% |
| 1330-20-7 | xylene | 0.1-<0.5% |

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

| | | | |
|----------|--------------|---|---------|
| 100-41-4 | ethylbenzene | * | 1-2,49% |
|----------|--------------|---|---------|

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· 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 | 5-9,99% |
| 78-93-3 | butanone | I | 2,5-4,99% |
| 100-41-4 | ethylbenzene | D | 1-2,49% |
| 108-88-3 | toluene | II | 1-2,49% |
| 80-62-6 | methyl methacrylate | E, NL | 0.5-<1% |
| 1330-20-7 | xylene | I | 0.1-<0.5% |

· TLV (Threshold Limit Value established by ACGIH)

| | | |
|-----------|---------------------|----|
| 1330-20-7 | xylene | A4 |
| 67-63-0 | propan-2-ol | A4 |
| 100-41-4 | ethylbenzene | A3 |
| 108-88-3 | toluene | A4 |
| 80-62-6 | methyl methacrylate | A4 |
| 1330-20-7 | xylene | A4 |

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

None of the ingredients is listed.

(Contd. on page 14)

Safety Data Sheet

29 CFR Parts 1910 1915 1926

Printing date 08/08/2016

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Product number LUA432**Trade name: ACR CLEAR SELF S 40SH**

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- **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** 08/08/2016 / 18

- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

Flam. Liq. 2: Flammable liquids . Category 2

Flam. Liq. 3: Flammable liquids . Category 3

Acute Tox. 4: Acute toxicity . Category 4

Skin Irrit. 2: Skin corrosion/irritation . Category 2

Eye Irrit. 2: Serious eye damage/eye irritation . Category 2

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

Skin Sens. 1: Skin sensitisation . Category 1

Carc. 2: Carcinogenicity . Category 2

Carc. 2: Carcinogenicity . Category 2

Repr. 2: Reproductive toxicity . Category 2

STOT SE 3: Specific target organ toxicity (single exposure) . Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2

Asp. Tox. 1: Aspiration hazard . Category 1

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

- **Sources**

Directive 1999/45/EC and following amendments

Directive 67/548/EEC and following amendments and adjustments

Agency ECHA web site

INRS Fiche Toxicologique

IARC International agency for research on cancer

- *** Data compared to the previous version altered.**

US