

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

- **1.1 Product identifier**
- Trade name: **Polimar FCS Heavy Duty Surfacing**
- Article number: MW750017
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** See Section 16
- Application of the substance / the mixture Textured coating
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
IKO Group PLC
Apply Lane North
Appley Bridge
Wigan
Lancashire
WN6 9AB
Tel: +44 844 412 7225
Fax: +44 844 412 7205
- **Further information obtainable from:**
Divison product safety
Tel.: +44 7860 242152
- **Emergency telephone number:**
Tel: +44 (0)1257 256864
Opening Times: 0900 - 1700 Monday to Friday

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- Classification according to Regulation (EC) No 453/2010



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 453/2010**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**
2-ethylhexyl acrylate
methyl methacrylate

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· Hazard statements

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.

· Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P261 Avoid breathing vapours.
- P280 Wear protective gloves / eye protection.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P403+P235 Store in a well-ventilated place. Keep cool.

· 2.3 Other hazards**· Results of PBT and vPvB assessment**

- **PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).
- **vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 103-11-7 EINECS: 203-080-7 Reg.nr.: 01-2119453158-37	2-ethylhexyl acrylate Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	3-<10%
CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	3-<10%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures**· General information:**

- Immediately remove any clothing soiled by the product.
- Take affected persons out of danger area and lay down.
- Involve doctor immediately.

· After inhalation:

- In case of unconsciousness place patient stably in side position for transportation.
- Take affected persons into fresh air and keep quiet.
- Seek medical treatment.

· After skin contact:

- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.

- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:** Do not induce vomiting; call for medical help immediately.

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

- Headache
- Disziness
- Skin sensitization.
- Irritant to skin, eyes and respiratory system.

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

- After inhalation, even in the absence of signs of disease, inhaled corticosteroid (eg Ventolair) give.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder, foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
 - Can form explosive gas-air mixtures.
 - Formation of toxic gases is possible during heating or in case of fire.
 - In case of fire, the following can be released:
 - Carbon monoxide (CO)
 - Nitrogen oxides (NO_x)
 - Vapours are heavier than air.
 - Crawling vapors can result in greater distance from the ignition!
- **5.3 Advice for firefighters**
- **Protective equipment:**
 - Wear fully protective suit.
 - Wear self-contained respiratory protective device.
- **Additional information**
 - Cool endangered receptacles with water spray.
 - Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Ensure adequate ventilation



Keep away from ignition sources.

- Use respiratory protective device against the effects of fumes/dust/aerosol.
- Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
 - Do not allow to enter sewers/ surface or ground water.
 - Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
 - Do not flush with water or aqueous cleansing agents
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 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.

* SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 - Cool because of polymerization when heated container. By heat, keep containers with water. Cool Emergency cooling for the case of nearby fire. closed containers protect against heating (pressure rise).
 - Avoid heat.
 - Do not refill residue into storage receptacles.
 - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
 - at least 7 air changes
 - Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
 - Highly volatile, flammable constituents are released during processing.
 - Keep ignition sources away - Do not smoke.
 - Fumes can combine with air to form an explosive mixture.
 - Only explosion-proof equipment.

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Protect against electrostatic charges.
 Protect from heat.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.
 Store in a cool location.

· **Information about storage in one common storage facility:**

Store away from oxidising agents.
 Store away from foodstuffs.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.
 Storage in a collecting room is required.
 Store under lock and key and with access restricted to technical experts or their assistants only.
 max. Storage temperature 30 °C
 Keep container tightly sealed.
 Protect from heat and direct sunlight.

· **7.3 Specific end use(s)** Building coating or sealing.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

103-11-7 2-ethylhexyl acrylate (3-<10%)

MAK (Switzerland)	Short-term value: 38 mg/m ³ , 5 ppm Long-term value: 38 mg/m ³ , 5 ppm S SSc;
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80-62-6 methyl methacrylate (3-<10%)

WEL (Great Britain)	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm
MAK (Switzerland)	Short-term value: 420 mg/m ³ , 100 ppm Long-term value: 210 mg/m ³ , 50 ppm S SSc;

· **DNELs**

103-11-7 2-ethylhexyl acrylate

Dermal	DNEL	242 µg/cm ² (Employee / Industrial / Commercial) Long-term and short-term
Inhalative	DNEL	37.5 mg/m ³ (Employee / Industrial / Commercial) (Langzeit)

80-62-6 methyl methacrylate

Inhalative	DNEL (population)	74.3 mg/m ³ (Long-term - systemic effects) 105 mg/m ³ (Long-term - local effects)
	DNEL (worker)	210 mg/m ³ (Long-term - local effects) 210 mg/m ³ (Long-term - systemic effects) Long-term

· **PNECs**

103-11-7 2-ethylhexyl acrylate

Boden	2.3 mg/l (Soil microorganisms) 1 mg/l (ground)
PNEC water	0.0023 mg/kg (oral intake) 0.126 mg/l (sediment) 0.002727 mg/l (freshwater)

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80-62-6 methyl methacrylate

PNEC	< 0.94 mg/l (water)
PNEC sediment	1.47 mg/kg dw (ground) 5.74 mg/kg dw (freshwater)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**
Ensure good ventilation.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
The use of respiratory protective hood is recommended because not wearing time limitations apply.
- **Protection of hands:**
Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves

After use of gloves apply skin-cleaning agents and skin cosmetics.
Check protective gloves prior to each use for their proper condition.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

- **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.
Protective gloves according EN 374.
Suitable material: nitrile.
- **Penetration time of glove material**
Our Recommendation is mainly on a one-time use as a short-term protection Liquid splashes. For other applications, you should contact a glove manufacturer.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
Butyl rubber, BR
- **For the permanent contact gloves made of the following materials are suitable:** Butyl rubber, BR
- **Not suitable are gloves made of the following materials:** Leather gloves
- **Eye protection:**



Tightly sealed goggles

EN-Standard: EN 166

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· **Body protection:**

Protective work clothing

* **SECTION 9: Physical and chemical properties**· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· **Form:** Pasty
 · **Colour:** Various colours

· **Odour:** Ester-like· **Odour threshold:** Not determined.· **pH-value:** Not determined.· **Change in condition**· **Melting point/Melting range:** Undetermined.· **Boiling point/Boiling range:** Undetermined.· **Flash point:** 35 °C (DIN EN ISO 3680)· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:** 252 °C (2-EHA)· **Decomposition temperature:** Not determined.· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.· **Explosion limits:**· **Lower:** 1.7 Vol % (MMA)· **Upper:** 12.5 Vol % (MMA)· **Vapour pressure:** Not determined.· **Density at 20 °C:** 1.8 g/cm³ (EN ISO 2811-1)· **Relative density** Not determined.· **Vapour density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** log Pow: 4,29 (2-EHA); (25 °C, OECD 107)
log Pow: 1,38 (MMA)· **Viscosity:**· **Dynamic at 20 °C:** 12500 mPas (EN ISO 2555)· **Kinematic:** Not determined.· **Solvent content:**· **Organic solvents:** 0.1 %· **VOC (EC)** 0.11 %· **Solids content:** 85.0 %

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· 9.2 Other information	No further relevant information available.
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SECTION 10: Stability and reactivity

- **10.1 Reactivity** see Section 10.2
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Exothermic reaction.
Reacts with peroxides and other radical forming substances.
A hazardous polymerization may occur after the exhaustion of the inhibitor.
- **10.4 Conditions to avoid** Avoid heat. Avoid direct sunlight.
- **10.5 Incompatible materials:** Violent reaction with peroxides and other reducing agents.
- **10.6 Hazardous decomposition products:**
No dangerous decomposition products used according to specifications.
- **Additional information:**
Emergency procedures will vary depending on individual circumstances. The customer should have a contingency plan to the workplace may be present.

* SECTION 11: Toxicological information

- **11.1 Information on toxicological effects** There were no toxicological findings to the mixture.
- **Acute toxicity:**

· LD/LC50 values relevant for classification:		
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ATE (Acute Toxicity Estimates)		
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Inhalative	LC50/4h	169 mg/l (rat)
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103-11-7 2-ethylhexyl acrylate		
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Oral	LD50	4435 mg/kg (rat) (BASF-Test)
Dermal	LC50	7520 mg/kg (hare)

80-62-6 methyl methacrylate		
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Oral	LD50	> 5000 mg/kg (rat) (OECD 401)
	NOAEL	2000 ppm (rat) n drinking water, 6-2000 ppm Findings: No toxic effects
Dermal	LC50	> 5000 mg/kg (rabbit)
Inhalative	LC50/4h	29.8 mg/l (rat)
	NOAEL	25 ppm (rat) 25 - 400 ppm Findings: Damage to mucous membranes in the nose at 400 ppm

- **Primary irritant effect:**
- **on the skin:** Irritability
- **on the eye:** Irritating effect.
- **Sensitisation:** Sensitisation possible through skin contact.
- **Other information (about experimental toxicology):**
Due to the high vapor pressure is a harmful concentration in the air quickly been reached. At high concentrations can occur narcotic effect.
- **Subacute to chronic toxicity:** not tested
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
- **Toxicokinetics, metabolism and distribution** The drug is metabolized rapidly (MMA).

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- **Acute effects (acute toxicity, irritation and corrosivity)** not tested
- **Repeated dose toxicity** no data available
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** not tested

* SECTION 12: Ecological information

· 12.1 Toxicity

80-62-6 methyl methacrylate

EC3/16h	100 mg/l (Pseudomonas putida) (Zellvermehrungshemmtest, Bringmann-Kühn)
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· Aquatic toxicity:

103-11-7 2-ethylhexyl acrylate

EC50/48h (static)	1.3 mg/l (daphnia magna) (OECD 202, Part 1)
ErC50/72h (static)	1.71 mg/l (scenedesmus subspicatus) (OECD 201) The details of the toxic effect relates to the analytically determined concentration.
LC50/96h (static)	1.81 mg/l (Rainbow trout) (OECD 203)
NOEC/21d	0.19 mg/l (daphnia magna) The details of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from products of a similar structure or composition.
other (28d)	> 1000 mg/kg (Soil microorganisms) (OECD 217)

80-62-6 methyl methacrylate

EC50/48h	69 mg/l (daphnia magna) (OECD 202)
EC50/72h	> 110 mg/l (Selenastrum capricornutum) (OECD 201)
ErC50/72h	> 110 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	> 79 mg/l (Rainbow trout) (OECD 203)
NOEC	9.4 mg/l (Danio rerio) (OECD 210) fish early life stage test, 35 days
	37 mg/l (daphnia magna) (OECD 211) 21 days
NOEC/72h	> 110 mg/l (Selenastrum capricornutum) (OECD 201)

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** The product is easily biodegradable.
- **12.3 Bioaccumulative potential**
2-EHA:
Can be accumulated in organisms.
bioaccumulation potential:
Bioconcentration Factor: 282.4 (calculated)
- **12.4 Mobility in soil**
MMA: A binding to the solid phase of soil, sediment and sewage sludge is not expected. From the water surface the substance is slowly evaporated into the atmosphere. Where the substance into the environment he verleiht preferably in the compartment into which it has emerged.
2-EHA: The product floats on water and does not dissolve. Adsorption on soil is not likely.
- **Additional ecological information:**
- **COD-value:** 2-EHA: Theoretical oxygen demand (TOD) = 5.6 g/g
- **BOD5-value:** 0.14 g/g (MMA)
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).
- **vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).
- **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

Hazardous waste according to Waste Catalogue (EWC). If recycling is not possible, waste must be in compliance with local regulations to be removed.

· **Recommendation**

Uncured product residues are special waste.

Cured product residues are not hazardous waste.



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

· **Waste disposal key:**

The following Waste Codes of the European Waste Catalogue (EWC), are considered a recommendation. The disposal must be coordinated with the local waste disposal company.

Liquid product:

080111 * paint and varnish containing organic solvents or other dangerous substances

080199 waste nec

Cured product residues:

080112 paint and varnish wastes other than those mentioned in 080111

080410 adhesive waste adhesives and sealants other than those mentioned in 080409


· **Uncleaned packaging:**

· **Recommendation:**

This material and its container must be disposed of as hazardous waste.

Disposal must be made according to official regulations.

* SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, ADN, IMDG	Void
· IATA	UN1263
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG	Void
· IATA	PAINT
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG	
· Class	Void
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG	Void
· IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No

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· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Remarks:	> 450 l: 3 F1, III
· IMDG	
· Remarks:	> 30 l: 3, III
· UN "Model Regulation":	-

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions under the Maternity Protection Directive (94/33/EC).
Employment restrictions for maternity Directive (92/85/EEC) for expectant and nursing mothers.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These figures relate to the product as delivered.

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.

Sector of Use

Relevant identified uses of the mixture

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

SU21 Consumer uses: Private households / general public / consumers

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

- **Training hints**

Teaching about hazards and precautions to hand the operating instructions (Technical Rule 555).
Instruction must take place before the start of employment and at least annually thereafter.

- **Department issuing MSDS:** Division product safety

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

• Sources

www.gestis.de
www.echa.eu
logkow.cisti.nrc.ca

• * Data compared to the previous version altered.

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Version History.

Version 1.0 June 1st 2015 New release for Classification, Labelling Packaging Regulations