

**PMMA – IKO Metatech Flash****SECTION 1 – SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION**

PRODUCT NAME	IKO Metatech Flash
TRADE NAME	IKO Metatech Detail
PRODUCT NUMBER	02418210
CHEMICAL FAMILY	Liquid waterproofing for roofdetails.
PRODUCT USE	Building and construction work Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Industrial uses: Uses of substances as such or in preparations at industrial sites
MANUFACTURER/SUPPLIER	IKO Europe nv D'Herbouvillekaai 80 B-2020 Antwerpen Belgium Tel.: +32 (0)3 248 30 00
WEBSITE	<a href="http://www.iko.com">www.iko.com</a>
EMERGENCY NUMBER	CANUTEC: 1-613-996-6666 (24 hours information only)

**SECTION 2 – HAZARD IDENTIFICATION**

## CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

SIGNAL WORD Danger

SYMBOL(S)



CLASSIFICATION

Flammable Liquids - Category 2.  
Flammable Liquids - Category 3.  
Skin Irritation - Category 2.  
Eye Irritation - Category 2.  
Skin sensitization - Category 1.  
Skin sensitization - Category 1B.  
Specific Target Organ Toxicity (Single Exposure) - Category 3.  
Acute toxicity, oral - Category 2.  
Acute toxicity, oral - Category 4.  
Hazardous to the aquatic environment - long-term aquatic hazard - Category 3.

HAZARD STATEMENTS

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H300 Fatal if swallowed.  
H302 Harmful if swallowed.



## SAFETY DATA SHEET 25110

### PMMA – IKO Metatech Flash

H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation  
 H335 May cause respiratory irritation.  
 H412 Harmful to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P241 Use explosion-proof [electrical/ventilating/lighting] equipment.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/ national/ international regulations.

NFPA No information available.

HMIS No information available.

<b>SECTION 3 – CHEMICAL COMPOSITION AND DATA ON COMPONENTS</b>
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**Chemical characterization:** Mixtures

**Description:** Solution of an acrylic polymer in acrylates and methacrylates

#### Hazardous components:

HAZARDOUS CHEMICAL NAME	% (w/w)	CAS NUMBER
methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	25-40	80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28
2-ethylhexyl acrylate Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	>=10-<25	103-11-7 EINECS: 203-080-7 Reg.nr.: 01-2119453158-37
n-butyl acrylate Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	10-25	141-32-2 EINECS: 205-480-7
methacrylic acid, monoester with propane-1,2-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319	>=5-<10	27813-02-1 EINECS: 248-666-3



## SAFETY DATA SHEET 25110

### PMMA – IKO Metatech Flash

2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	2.5-5	868-77-9 EINECS: 212-782-2
tetramethylene dimethacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-5	2082-81-7 EINECS: 218-218-1
Triethylene glycol dimethacrylate Skin Sens. 1B, H317	1-2.5	109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21

#### SECTION 4 – FIRST AID

General information: Take affected persons out of danger area and lay down. Involve doctor immediately.

INHALATION	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
INGESTION	After swallowing if symptoms persist, consult a doctor.
SKIN CONTACT	If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly.
EYE CONTACT	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
ACUTE AND CHRONIC SYMPTOMS	Headache Dizziness Allergic reactions
MEDICAL ATTENTION	No further relevant information available.

#### SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	Suitable extinguishing agents: CO <sub>2</sub> , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet
ADVICE FOR FIRE FIGHTING	Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.
HAZARDOUS COMBUSTION PRODUCTS	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 <sub>x</sub> )
FLAMMABILITY	Not applicable.
PROPERTIES:	
FLASH POINT	10 °C



## SAFETY DATA SHEET 25110

### PMMA – IKO Metatech Flash

FLAMMABLE LIMITS IN AIR Lower flammability limit (% vol): 0.8  
Upper flammability limit (% vol): 12.5

AUTO IGNITION TEMPERATURE Product is not selfigniting.

SPECIAL PPE FOR FIRE-FIGHTERS Wear self-contained respiratory protective device.  
Wear fully protective suit.

Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system. Cool endangered receptacles with water spray.

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE MEASURES 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.

ENVIRONMENTAL PRECAUTIONS Do not allow to enter sewers/ surface or ground water.

SPILL MANAGEMENT Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

#### SECTION 7 - HANDLING AND STORAGE

HANDLING PROCEDURE Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Keep away from heat and direct sunlight. Use only in well ventilated areas. Do not refill residue into storage receptacles.

Information about fire - and explosion protection: Fumes can combine with air to form an explosive mixture. Highly volatile, flammable constituents are released during processing. Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

STORAGE PRECAUTIONS 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 receptacle in fume cupboard.  
Store under lock and key and with access restricted to technical experts or their assistants only.  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.



# SAFETY DATA SHEET 25110

## PMMA – IKO Metatech Flash

### SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

#### CONTROL PARAMETERS:

Ingredients with limit values that require monitoring at the workplace:

103-11-7 2-ethylhexyl acrylate  
short term value : 38 mg/m<sup>3</sup>, 5 ppm  
long term value : 38 mg/m<sup>3</sup>, 5 ppm

CAS: 80-62-6 methyl methacrylate	
WEL	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm
CAS: 141-32-2 n-butyl acrylate	
WEL	Short-term value: 26 mg/m <sup>3</sup> , 5 ppm Long-term value: 5 mg/m <sup>3</sup> , 1 ppm

#### DNELs

80-62-6 methyl metacrylate:

Inhalative DNEL (poulation) 74.3 mg/m<sup>3</sup> (long term - systemic effects)  
105 mg/m<sup>3</sup> (long term - local effects)  
DNEL (worker) 210 mg/m<sup>3</sup> (long term - systemic effects)  
210 mg/m<sup>3</sup> (long term - local effects)

103-11-7 2-ethylhexyl acrylate  
Dermal DNEL 242µg/cm<sup>2</sup> (long term and short term)  
Inhalative DNEL 37.5 mg/m<sup>3</sup> (long term)

Additional information: The lists valid during the making were used as basis.

#### ENGINEERING MEASURES

#### PERSONAL PROTECTIVE EQUIPMENT:

**RESPIRATORY PROTECTION** Suitable respiratory protective device recommended.  
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.

**SKIN AND BODY PROTECTION** Protection of hands: Use Protective gloves  
Material of gloves: Butyl rubber, BR  
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.



## SAFETY DATA SHEET 25110

### PMMA – IKO Metatech Flash

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

Body protection: Protective work clothing

EYE PROTECTION Tightly sealed goggles

HYGIENE 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.  
Avoid contact with the eyes and skin.

OTHER CONTROLS No information available.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOR etc.)	Form: Viscous Color: Coloured
ODOR	Ester-like
ODOR THRESHOLD	Not determined
PH	Not determined.
MELTING POINT/FREEZING POINT	Undetermined
INITIAL BOILING POINT AND BOILING RANGE	101 °C
FLASH POINT	10 °C
EVAPORATION RATE	Not determined.
FLAMMABILITY	Not applicable.
IGNITION TEMPERATURE	Not determined.
UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS	Lower flammability limit (% vol): 0.8 Vol % Upper flammability limit (% vol): 12.5 Vol %
VAPOR PRESSURE	At 20 °C: 47 hPa
DENSITY AT 20 °C	1.22 g/cm <sup>3</sup>
VAPOR DENSITY	Not determined.
RELATIVE DENSITY	Not determined.
MOLECULAR WEIGHT	No information available.



## SAFETY DATA SHEET 25110

### PMMA – IKO Metatech Flash

SOLUBILITY IN/MISCIBILITY WITH WATER:	Insoluble
PARTITION COEFFICIENT: N-OCTANOL/WATER	Not determined
AUTO-IGNITION TEMPERATURE	Product is not selfigniting.
EXPLOSIVE PROPERTIES	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
SPECIFIC GRAVITY	No information available.
VISCOSITY	Dynamic At 20°C: 5000 mPas Kinematic: Not determined.
SOLVENT CONTENT	VOC (EC) : 0.0 g/l
OTHER INFORMATION	No further relevant information available.

#### SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY:	No further relevant information available.
CHEMICAL STABILITY	Thermal decomposition / conditions to be avoided: No decomposition if used according to specificatins.
POSSIBILITY OF HAZARDOUS REACTIONS	Reacts with peroxides and other radical forming substances. Exothermic reaction. Exothermic polymerization.
CONDITIONS TO AVOID	Keep away from heat and direct sunlight.
INCOMPATIBLE MATERIALS	Reacts with peroxides. Reacts with reducing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	None at a proper use of the product.

#### SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE/CHRONIC TOXICITY Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	LD50	8,170 mg/kg (rat)
Dermal	LD50	18,155 mg/kg (rabbit)

CAS: 80-62-6 methyl methacrylate



# SAFETY DATA SHEET 25110

## PMMA – IKO Metatech Flash

Oral	LD50	7,872 mg/kg (rat)
CAS: 103-11-7 2-ethylhexyl acrylate		
Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	8,480 mg/kg (rabbit)
CAS: 141-32-2 n-butyl acrylate		
Oral	LD50	900 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
CAS: 868-77-9 2-hydroxyethyl methacrylate		
Oral	LD50	5,050 mg/kg (rat)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No information available.

PRIMARY ROUTE OF EXPOSURE

No information available.

HEALTH EFFECTS:

EYES Causes serious eye irritation.

SKIN Irritant  
Causes skin irritation.

INHALATION May cause an allergic skin reaction.

INGESTION No information available.

STOT (SPECIFIC TARGET ORGAN TOXICITY)- SINGLE EXPOSURE May cause respiratory irritation.

STOT (SPECIFIC TARGET ORGAN TOXICITY) – REPEATED EXPOSURE Based on available data, the classification criteria are not met.

CARCINOGENICITY Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY: Based on available data, the classification criteria are not met.

DEVELOPMENT OF OFFSPRING No information available

SEXUAL FUNCTION AND FERTILITY No information available

GERM CELL MUTAGENICITY Based on available data, the classification criteria are not met.

### SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY

Aquatic toxicity:  
80-62-6 methyl methacrylate  
EC50/48h 69 mg/l (daphnia magna) (OECD 202)  
EC50/72h >110 mg/l (Selenastrum capricornutum) (OECD201)





## SAFETY DATA SHEET 25110

### PMMA – IKO Metatech Flash

LC50/96h >79mg/l (Rainbow trout) (OECD 203)

2-Ethylhexyl acrylate

EC50 48h (daphnia magna): 17.45 mg/l

LC50 48h (Leuciscus idus) : 23 mg/l

PERSISTENCE &  
DEGRADABILITY

Easily biodegradable

BIODEGRADATION MOBILITY

Mobility in soil : Groundwater can be contaminated.

BIOACCUMULATION  
POTENTIAL

Potential to bioaccumulate.

GENERAL NOTES

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL  
RECOMMENDATIONS

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

European waste catalogue 080111, 080199

Uncleaned packaging:

Recommendation: Packaging may be reused or recycled after cleaning. Dispose of packaging according to regulations on the disposal of packagings.

### SECTION 14 – TRANSPORT INFORMATION

UN-NUMBER

ADR, IMDG, IATA UN1263

UN PROPER SHIPPING NAME

ADR UN1263 PAINT RELATED MATERIAL  
IMDG, IATA PAINT RELATED MATERIAL

TRANSPORT HAZARD CLASS(ES): Class 3 Flammable Liquids  
ADR, IMDG, IATA Label 3

PACKING GROUP

ADR, IMDG, IATA III

ENVIRONMENTAL HAZARD  
MARINE POLLUTANT:

No

SPECIAL PRECAUTIONS FOR  
USERS

Warning: Flammable liquids.  
Danger code (Kemler): -  
Stowage Category: A



## SAFETY DATA SHEET 25110

### PMMA – IKO Metatech Flash

F-E,S-D

EMS NUMBER:

TRANSPORT IN BULK  
ACCORDING TO ANNEX II OF  
MARPOL AND THE IBC CODE

Not applicable.

TRANSPORT/ADDITIONAL  
INFORMATION

ADR : Special provision 640D  
Limited quantities (LQ): 5L  
Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml  
Transport category: 3  
Tunnel restriction code: E

IMDG  
Limited quantities (LQ): 5L  
Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

UN "MODEL REGULATION"

UN 1263 PAINT RELATED MATERIAL, 3, III

#### SECTION 15 - REGULATIONS

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

This product does not contain any SVHC's.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

#### SECTION 16 – OTHER INFORMATION

REVISION DATE OF SDS June 07, 2022

REPLACES THE MSDS/SDS FROM (new)

PREPARED BY Research Department

GENERAL INFORMATION 1-888-766-2468

WEBSITE [www.iko.com](http://www.iko.com)



## **SAFETY DATA SHEET 25110**

### **PMMA – IKO Metatech Flash**

#### **OTHER INFO/DISCLAMERS**

Read this Safety Data Sheet before handling or disposing of this product.

This product safety information is provided to help our customers with health, safety and/or environmental matters. We have taken reasonable effort to ensure that the test methods and sources for this data are correct and reliable, however, we give no warranty, expressed or implied, regarding its correctness. Since conditions or methods of handling and using this product are beyond our control, we do not assume responsibility and expressly disclaim liability for damages resulting from or connected with the handling, storage, use or disposal of the product.