

PMMA – IKO Metatech Field

SECTION 1 – SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION

PRODUCT NAME	IKO Metatech Field
TRADE NAME	IKO Metatech
PRODUCT NUMBER	02418110, 02418120
CHEMICAL FAMILY	Acrylic sealant
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	www.iko.com
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 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.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.



SAFETY DATA SHEET 25111

PMMA – IKO Metatech Field

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

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 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.

SECTION 3 – CHEMICAL COMPOSITION AND DATA ON COMPONENTS

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-<20	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-<20	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
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	2.5-5	2082-81-7



SAFETY DATA SHEET 25111

PMMA – IKO Metatech Field

Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335		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	Do not induce vomiting; call for medical help immediately
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 ₂ , sand, extinguishing powder. Do not use water. For safety reasons unsuitable extinguishing agents: Water with full jet Water
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 _x)
FLAMMABILITY	No information available.
PROPERTIES:	
FLASH POINT	10 °C
FLAMMABLE LIMITS IN AIR	Lower flammability limit (% vol): 0.8 Upper flammability limit (% vol): 12.5



SAFETY DATA SHEET 25111

PMMA – IKO Metatech Field

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:
Storage in a collecting room is required.
Store under lock and key and with access restricted to technical experts or their assistants only.
Keep container tightly sealed.



SAFETY DATA SHEET 25111

PMMA – IKO Metatech Field

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/m³, 5 ppm
long term value : 38 mg/m³, 5 ppm

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

DNELs

80-62-6 methyl metacrylate:

Inhalative DNEL (poulation) 74.3 mg/m³ (long term - systemic effects)
105 mg/m³ (long term - local effects)
DNEL (worker) 210 mg/m³ (long term - systemic effects)
210 mg/m³ (long term - local effects)

103-11-7 2-ethylhexyl acrylate
Dermal DNEL 242µg/cm² (long term and short term)
Inhalative DNEL 37.5 mg/m³ (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: Solvent resistant 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.
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



SAFETY DATA SHEET 25111

PMMA – IKO Metatech Field

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 skin. Avoid contact with the eyes and skin.
OTHER CONTROLS	No information available.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOR etc.)	Form: Fluid Color: Beige
ODOR	Ester-like
ODOR THRESHOLD	No information available.
PH	Not determined.
MELTING POINT/FREEZING POINT	Undetermined
INITIAL BOILING POINT AND BOILING RANGE	101 °C
FLASH POINT	10 °C
EVAPORATION RATE	No information available.
FLAMMABILITY	No information available.
IGNITION TEMPERATURE	245 °C
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 ³
VAPOR DENSITY	No information available.
RELATIVE DENSITY	No information available.
MOLECULAR WEIGHT	No information available.
SOLUBILITY IN/MISCIBILITY WITH WATER:	Insoluble



SAFETY DATA SHEET 25111

PMMA – IKO Metatech Field

PARTITION COEFFICIENT:
N-OCTANOL/WATER

No information available.

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: 6,600 mPas
Kinematic: Not determined.

SOLVENT CONTENT

VOC limit value (cat A/i) 500 g/L 2010.
Product contains 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	8,013 mg/kg (rat)
Dermal	LD50	17,806 mg/kg (rabbit)
Inhalative	LC50/4 h	25.5 mg/l (rat)

CAS: 80-62-6 methyl methacrylate



SAFETY DATA SHEET 25111

PMMA – IKO Metatech Field

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 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 25111

PMMA – IKO Metatech Field

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 UN 1263, Paint related material, 3, II, D/E

IMDG UN 1263, Paint related material, 3, II, (10°C cc)

IATA UN 1263 PAINT RELATED MATERIAL

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

PACKING GROUP

ADR, IMDG, IATA II

ENVIRONMENTAL HAZARD
MARINE POLLUTANT:

No

SPECIAL PRECAUTIONS FOR

Warning: Flammable liquids.



SAFETY DATA SHEET 25111

PMMA – IKO Metatech Field

USERS

Danger code (Kemler): 33

EMS NUMBER:

Stowage Category: B

F-E,S-D

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: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

Transport category: 2

Tunnel restriction code: D/E

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, 3, II

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 08, 2022

REPLACES THE MSDS/SDS (new)
FROM

PREPARED BY Research Department

GENERAL INFORMATION 1-888-766-2468



SAFETY DATA SHEET 25111

PMMA – IKO Metatech Field

WEBSITE

www.iko.com

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.