

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 30-Aug-2016 Revision Date 22-Jan-2021 Revision Number 5

EGHS / English

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

## 1.1. Product identifier

Product Name SamplKwick Liquid

**Product Code(s)** 20-3564, 20-3564-320, 20-3564-640, 20-3568

(M)SDS Number 1341291\_E

Chemical name

Contains Isobutyl methacrylate

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory use.

**Uses advised against** No information available.

## 1.3. Details of the supplier of the safety data sheet

Manufacturer ITW Test & Measurement GmbH

Manufacturer Address Boschstraße 10

73734 Esslingen am Neckar / GERMANY

www.buehler-met.de www.buehler.fr www.buehler.co.uk

**Phone number** +49 (0) 711 4904690-0

E-mail address lab.eu@buehler.com

#### 1.4. Emergency telephone number

Global Access Code: 334545 Americas: +1 760 476 3962

Americas: +1 760 476 3962 Europe: +1 760 476 3961 Middle East/Africa: +1 760 476 3959 Asia Pacific: +1 760 476 3960

UK: +44 8 08 189 0979

# **SECTION 2: Hazards identification**



## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2A - (H319)
Skin sensitization	Category 1 - (H317)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 3 - (H226)

#### 2.2. Label elements

Contains Isobutyl methacrylate



## Signal word

## Warning

#### **Hazard Statements**

- H226 Flammable liquid and vapor
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H400 Very toxic to aquatic life
- H412 Harmful to aquatic life with long lasting effects

## Precautionary Statements - EU (§28, 1272/2008)

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P243 Take precautionary measures against static discharge
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P271 Use only outdoors or in a well-ventilated area
- P302 + P352 IF ON SKIN: Wash with plenty of water and soap
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P312 Call a POISON CENTER or doctor if you feel unwell
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P403 + P235 Store in a well-ventilated place. Keep cool
- P501 Dispose of contents/ container to an approved waste disposal plant

#### 2.3. Other hazards

No information available



# Section 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

Chemical name	EC No	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Isobutyl methacrylate	202-613-0	97-86-9	80 - 90%	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) STOT SE 3 (H335) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	No data available
Trimethylopropane trimethacrylate	221-950-4	3290-92-4	10 - 20%	No data available	No data available

## Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## Section 4: First aid measures

## 4.1. Description of first aid measures

General advice Get medical attention if irritation or other symptoms occur. Show this safety data

sheet to the doctor in attendance.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing. Get medical attention immediately if symptoms occur.

**Skin contact** Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. Wash contaminated clothing before reuse. In the

case of skin irritation or allergic reactions see a physician.

**Eye contact**Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call

a physician immediately.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Call a physician or poison control center

immediately. Never give anything by mouth to an unconscious person.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact

with skin, eyes or clothing. Do not breathe vapor or mist.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. Burning sensation. Coughing and/ or wheezing. Difficulty

in breathing.



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## 4.3. Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

## **Section 5: FIRE FIGHTING MEASURES**

#### 5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, Carbon dioxide (CO2), Water spray, Alcohol resistant foam.

**Unsuitable extinguishing media** No information available.

# 5.2. Special hazards arising from the substance or mixture

#### Specific hazards arising from the chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

## 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **Section 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Wear protective gloves/protective clothing and

eye/face protection. Avoid breathing vapors or mists.

**For emergency responders** Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Local authorities should be advised if significant spillages cannot be

contained.

## 6.3. Methods and material for containment and cleaning up

**Methods for containment**Stop leak if you can do it without risk. Do not touch or walk through spilled

material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with

inert absorbent material. Pick up and transfer to properly labeled containers.

#### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# Section 7: Handling and storage

#### 7.1. Precautions for safe handling



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Advice on safe handling Do not eat, drink or smoke when using this product. Wash thoroughly after

handling. Avoid breathing vapors or mists. Ensure adequate ventilation. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Take precautionary measures

against static discharges.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away

from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity). Protect from sunlight.

#### 7.3. Specific end use(s)

**Identified Uses** 

**Risk Management Methods** 

(RMM)

The information required is contained in this Material Safety Data Sheet.

# Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Isobutyl methacrylate	-	-	-	=	TWA: 25 ppm
97-86-9					TWA: 145 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Isobutyl methacrylate	STEL 75 ppm	-	-	TWA: 50 ppm	-
97-86-9	STEL 450 mg/m <sup>3</sup>			TWA: 300 mg/m <sup>3</sup>	
	TWA: 50 ppm			STEL: 75 ppm	
	TWA: 300 mg/m <sup>3</sup>			STEL: 375 mg/m <sup>3</sup>	

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

#### 8.2. Exposure controls

#### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles. If splashes are likely to occur, wear safety glasses

with side-shields. None required for consumer use.

**Hand Protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant

apron. Antistatic boots.

**Environmental exposure** 

controls

No information available.



# Section 9: Physical and chemical properties

None known

## 9.1. Information on basic physical and chemical properties

Physical state Liquid Appearance Clear to yellow

Odor Acrid

Color No information available
Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

pH Not applicable
Melting / freezing point -35°C

Melting / freezing point -35°C

Boiling point / boiling range 155 °C

Flash Point 42.5-45.5 °C

Evaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limit No data available

Lower flammability limit

No data available

Vapor pressure210 mm Hg @ 20°CNone knownVapor density4.91None known

Relative density 0.901

Water Solubility 0.47 g/l @ 20°C

Solubility(ies)No data availableNone knownPartition coefficient: n-octanol/waterNo data availableNone knownAutoignition temperature296°CNone knownDecomposition temperatureNo data availableNone known

Kinematic viscosity

No data available

None known

Viscosity

No data available

None known

None known

#### 9.2. Other information

Softening PointNo information availableMolecular WeightNo information available

VOC Content (%) Not applicable

Liquid Density

Bulk Density

Particle Size

Particle Size Distribution

No information available
No information available
No information available
No information available

## Section 10: Stability and reactivity

## 10.1. Reactivity

No data available.

## 10.2. Chemical stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge Yes.

## 10.3. Possibility of hazardous reactions



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**Possibility of Hazardous** 

Reactions

None under normal processing.

#### 10.4. Conditions to avoid

Heat, flames and sparks, Excessive heat.

#### 10.5. Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO2).

# **Section 11: Toxicological information**

## 11.1. Information on toxicological effects

## Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause drowsiness or dizziness.

**Eve contact** Causes serious eye irritation.

**Skin contact**Causes skin irritation. Prolonged skin contact may defat the skin and produce

dermatitis.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Coughing and/ or wheezing. Difficulty in breathing.

## **Numerical measures of toxicity**

## **Acute Toxicity**

## The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 4,786.00 mg/kg

 ATEmix (dermal)
 6,294.00 mg/kg

 ATEmix (inhalation-gas)
 700.00 ppm

 ATEmix
 0.50 mg/L

(inhalation-dust/mist)

ATEmix (inhalation-vapor) 3.00 mg/L

#### Unknown acute toxicity

99.5 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

83 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)



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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isobutyl methacrylate	= 6400 mg/kg (Rat)	•	-
Trimethylopropane	= 5660 μL/kg (Rat)	= 16 mL/kg(Rabbit)	-
trimethacrylate			

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye

irritation

Classification based on data available for ingredients. Irritating to eyes.

Respiratory or skin sensitization May cause sensitization by skin contact.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive Toxicity** No information available.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

# **Section 12: Ecological information**

## 12.1. Toxicity

**Ecotoxicity** Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna
			Microorganisms	(Water Flea)
Isobutyl methacrylate	96h EC50: = 0.29	96h LC50: = 20 mg/L	-	48h EC50: = 23 mg/L
	mg/L	(Oncorhynchus		
	(Pseudokirchneriella	mykiss)		
	subcapitata)			
Trimethylopropane	=	96h LC50: = 144 mg/L	=	-
trimethacrylate		(Oncorhynchus		
		mykiss) 96h LC50: =		
		112 mg/L (Lepomis		
		macrochirus) 96h		
		LC50: = 160 mg/L		
		(Pimephales promelas)		

## 12.2. Persistence and degradability



Persistence and Degradability No information available.

## 12.3. Bioaccumulative potential

#### **Bioaccumulation**

Chemical name	Log Pow
Isobutyl methacrylate	2.01

## 12.4. Mobility in soil

Mobility in soil No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

Chemical name	PBT and vPvB assessment
Isobutyl methacrylate	The substance is not PBT / vPvB
Trimethylopropane trimethacrylate	The substance is not PBT / vPvB

#### 12.6. Other adverse effects

Other adverse effects No information available.

# **Section 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local

regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** No information available.

# **Section 14: Transport information**

#### IMDG/IMO

**14.1 UN-No.** UN1993

**14.2 Proper Shipping Name** FLAMMABLE LIQUID, N.O.S.

**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE), 3, III,

(49°C C.C.)

14.3 Hazard Class 3 14.4 Packing Group III

**14.5 Marine Pollutant** Product is a marine pollutant according to the criteria set by IMDG/IMO

Environmental hazard Yes
14.6 Special Provisions None
EmS-No. F-E, S-E

**14.7 Transport in bulk**No information available

according to Annex II of MARPOL 73/78 and the IBC

Code



RID

**14.1 UN-No.** UN1993

**14.2 Proper Shipping Name** FLAMMABLE LIQUID, N.O.S.

**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE),

ENVIRONMENTALLY HAZARDOUS, 3, III

14.3 Hazard Class<br/>ADR/RID-Labels314.4 Packing GroupIII14.5 Environmental hazardYes14.6 Special Provisions<br/>Classification codeNone

ADR

**14.1 UN-No.** UN1993

**14.2 Proper Shipping Name** FLAMMABLE LIQUID, N.O.S.

**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE),

ENVIRONMENTALLY HAZARDOUS, 3, III, (D/E)

14.3 Hazard Class314.4 Packing GroupIII14.5 Environmental hazardYes

**14.6 Special Provisions** None 274, 601, 640E

Classification code F1
Tunnel restriction code (D/E)

IATA

**14.1 UN-No.** UN1993

**14.2 Proper Shipping Name** FLAMMABLE LIQUID, N.O.S.

**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE), 3, III

14.3Hazard Class314.4Packing GroupIII14.5Environmental hazardYes14.6Special ProvisionsNone

# **Section 15: Regulatory information**

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

## National regulations

## **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Isobutyl methacrylate	RG 65	-
97-86-9		
Trimethylopropane trimethacrylate	RG 65	-
3290-92-4		

Water hazard class (WGK) hazardous to water (WGK 2)

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to



chemical agents at work .

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

#### **Persistent Organic Pollutants**

Not applicable.

## Dangerous substance category per Seveso Directive (2012/18/EU)

H2 - ACUTE TOXIC

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

## **International Inventories**

**TSCA** Contact supplier for inventory compliance status. **DSL/NDSL** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **EINECS/ELINCS ENCS** Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. KECL **PICCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **AICS** 

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

No information available.

# **Section 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H315 - Causes skin irritation

H226 - Flammable liquid and vapor



H335 - May cause respiratory irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

H331 - Toxic if inhaled

H412 - Harmful to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorization:

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value - Skin designation

## Key literature references and sources for data

www.ChemADVISOR.com/

Issuing Date 01-Mar-2017

Revision Date 22-Jan-2021

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.

#### **Disclaimer**

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**End of Safety Data Sheet** 



