

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product Identifier

**Product Name** SamplKwick Liquid  
**Product Code(s)** 20-3564, 20-3564-320, 20-3564-640, 20-3568  
**(M)SDS Number** 1341291\_A

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory use  
**Uses advised against** No information available

### Details of the Supplier of the Safety Data Sheet

**Manufacturer** Buehler  
**Manufacturer Address** 41 Waukegan Rd  
Lake Bluff, IL 60044  
www.buehler.com  
**Phone number** +1 847 295 6500  
**E-mail address** custserv@buehler.com

### Emergency Telephone Number

Global Access Code: 334545  
Americas: +1 760 476 3962  
Middle East/Africa: +1 760 476 3959  
Asia Pacific: +1 760 476 3960  
Europe: +1 760 476 3961

## 2. Hazards Identification


### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin Sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
FLAMMABLE LIQUIDS	Category 3

### GHS Label elements, including precautionary statements

**EMERGENCY OVERVIEW**

<b>Signal Word</b>	<b>WARNING</b>		
<b>hazard statements</b>	CAUSES SKIN IRRITATION May cause an allergic skin reaction Causes serious eye irritation May cause respiratory irritation Very toxic to aquatic life FLAMMABLE LIQUID AND VAPOR		
			
<b>Appearance</b>	Clear to yellow	<b>Physical state</b>	Liquid
		<b>Odor</b>	Acrid

**Precautionary Statements - Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
 Take precautionary measures against static discharge  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

**EYES**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention

**skin**

IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation or rash occurs: Get medical advice/attention

**INHALATION**

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

**FIRE**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed  
 Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)**

Not Applicable

### **OTHER INFORMATION**

Harmful to aquatic life with long lasting effects

#### **Interactions with other chemicals**

No information available.

## **3. Composition/information on Ingredients**

Chemical name	CAS No.	Weight-%	Trade secret
Isobutyl methacrylate	97-86-9	80 - 90%	*
Trimethylopropane trimethacrylate	3290-92-4	10 - 20%	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

## **4. First Aid Measures**

### **FIRST AID MEASURES**

#### **General advice**

Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

#### **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.

#### **Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.

#### **INHALATION**

Remove to fresh air. Get medical attention immediately if symptoms occur.

#### **INGESTION**

Do NOT induce vomiting. Rinse mouth. Call a physician. Never give anything by mouth to an unconscious person.

#### **Self-Protection of the First Aider**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8). 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.

### **Most Important Symptoms and Effects, Both Acute and Delayed**

#### **Most important symptoms and effects**

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

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

#### **Notes to physician**

Treat symptomatically.

## 5. Fire-fighting measures

### **Suitable extinguishing media**

Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray. Cool containers with flooding quantities of water until well after fire is out.

### **Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient.

### **Specific Hazards Arising from the Chemical**

FLAMMABLE. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Explosion risk in case of fire.

### **Explosion Data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** yes.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

### **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.

#### **Environmental Precautions**

#### **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Local authorities should be advised if significant spillages cannot be contained.

### **Methods and material for containment and cleaning up**

#### **Methods for Containment**

Prevent further leakage or spillage if safe to do so. 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.

## 7. Handling and Storage

### Precautions for Safe Handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment.

### Conditions for safe storage, including any incompatibilities

**Storage** 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.

**Incompatible products** Strong acids. Strong oxidizing agents. Strong bases.

## 8. Exposure Controls/Personal Protection

### Control Parameters

**Exposure guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

### Appropriate Engineering Controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves. Chemical resistant apron. Antistatic boots.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

## 9. Physical and Chemical Properties

### Physical and chemical properties

<b>Physical state</b>	Liquid		
<b>Appearance</b>	Clear to yellow	<b>Odor</b>	Acrid
<b>Color</b>	No information available	<b>Odor Threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
<b>pH</b>	Not applicable		
<b>Melting / freezing point</b>	-35°C	None known	
<b>Boiling point / boiling range</b>	155 °C / 311 °F		
<b>Flash Point</b>	42.5-45.5 °C / 139 °F		
<b>Evaporation Rate</b>	No data available	None known	
<b>Flammability (solid, gas)</b>	No data available	None known	
<b>Flammability Limit in Air</b>			
<b>Upper flammability limit</b>	No data available		
<b>Lower flammability limit</b>	No data available		
<b>Vapor pressure</b>	210 mm Hg @ 20°C	None known	
<b>Vapor density</b>	4.91	None known	
<b>Specific gravity</b>	0.901		
<b>Water Solubility</b>			
<b>Solubility in Other Solvents</b>	no data available	None known	
<b>Partition coefficient: n-octanol/water</b>	No data available	None known	
<b>Autoignition temperature</b>	296°C	None known	
<b>Decomposition temperature</b>	No data available	None known	
<b>Kinematic viscosity</b>	No data available	None known	
<b>Dynamic viscosity</b>	No data available	None known	
<b>Explosive Properties</b>	no data available		
<b>Oxidizing Properties</b>	no data available		

**OTHER INFORMATION**

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	Not applicable
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	

## 10. Stability and Reactivity

**Reactivity**

No data available.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to Avoid**

Heat, flames and sparks.

**Incompatible Materials**

Strong acids. Strong oxidizing agents. Strong bases.

**Hazardous decomposition products**

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## 11. Toxicological Information

**Information on likely routes of exposure****Product information**

<b>INHALATION</b>	May cause drowsiness or dizziness.
<b>Eye Contact</b>	Causes serious eye irritation.
<b>Skin Contact</b>	CAUSES SKIN IRRITATION. Prolonged skin contact may defat the skin and produce dermatitis.
<b>INGESTION</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isobutyl methacrylate 97-86-9	= 6400 mg/kg ( Rat )	-	-
Trimethylpropane trimethacrylate 3290-92-4	= 5660 µL/kg ( Rat )	= 16 mL/kg ( Rabbit )	-

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

<b>Symptoms</b>	Erythema (skin redness). May cause redness and tearing of the eyes. Itching. Rashes. Hives. Coughing and/ or wheezing.
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**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>sensitization</b>	May cause sensitization in susceptible persons. May cause sensitization by skin contact.
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<b>Mutagenic effects</b>	No information available.
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<b>carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.
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IARC (International Agency for Research on Cancer)  
*Group 2B - Possibly Carcinogenic to Humans*  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 X - Present

<b>Reproductive Toxicity</b>	No information available.
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<b>STOT - Single Exposure</b>	Respiratory System.
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<b>STOT - Repeated Exposure</b>	No information available.
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<b>Chronic toxicity</b>	Contains a known or suspected carcinogen.
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<b>Target organ effects</b>	Respiratory System. EYES. skin. Gastrointestinal tract (GI).
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<b>Aspiration hazard</b>	No information available.
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**Numerical measures of toxicity Product Information**

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

**ATEmix (oral)**  
 4,786.00 mg/kg

**ATEmix (dermal)**

37,023.00 mg/kg (ATE)

**ATEmix (inhalation-dust/mist)**

100.20 mg/l

**ATEmix (inhalation-vapor)**

600.00 ATEmix

## 12. Ecological Information

**ecotoxicity**

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

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Isobutyl methacrylate 97-86-9	96h EC50: = 0.29 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 20 mg/L (Oncorhynchus mykiss)		48h EC50: = 23 mg/L
Trimethylpropane trimethacrylate 3290-92-4		96h LC50: = 144 mg/L (Oncorhynchus mykiss) 96h LC50: = 112 mg/L (Lepomis macrochirus) 96h LC50: = 160 mg/L (Pimephales promelas)		

**Persistence and Degradability**

No information available.

**Bioaccumulation**

Chemical name	Log Pow
Isobutyl methacrylate 97-86-9	2.01

**Other adverse effects**

No information available.

## 13. Disposal Considerations

**Waste Treatment Methods**

<b>Disposal Methods</b>	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
<b>Contaminated packaging</b>	Dispose of contents/containers in accordance with local regulations.
<b>US EPA Waste Number</b>	D001
<b>California Waste Codes</b>	331

## 14. Transport information

**DOT**



**Proper shipping name** CONSUMER COMMODITY  
**Hazard class** ORM-D  
**Description** CONSUMER COMMODITY, ORM-D

**TDG**

**UN number** UN1993  
**Proper shipping name** FLAMMABLE LIQUID, N.O.S.  
**Hazard class** 3  
**Packing group** III  
**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE), 3, III

**MEX**

**UN-No** UN1993  
**Proper shipping name** FLAMMABLE LIQUID, N.O.S.  
**Hazard class** 3  
**Packing group** III  
**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE), 3, III

**ICAO**

**UN-No** UN1993  
**Proper shipping name** FLAMMABLE LIQUID, N.O.S.  
**Hazard class** 3  
**Packing group** III  
**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE), 3, III

**IATA**

**UN-No.** UN1993  
**Proper Shipping Name** FLAMMABLE LIQUID, N.O.S.  
**Hazard Class** 3  
**Packing Group** III  
**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE), 3, III

**IMDG/IMO**

**UN-No.** UN1993  
**Proper Shipping Name** FLAMMABLE LIQUID, N.O.S.  
**Hazard Class** 3  
**Packing Group** III  
**EmS-No.** F-E, S-E  
**Marine Pollutant** Product is a marine pollutant according to the criteria set by IMDG/IMO  
**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE), 3, III, (49°C C.C.)

**RID**

**UN-No.** UN1993  
**Proper Shipping Name** FLAMMABLE LIQUID, N.O.S.  
**Hazard Class** 3  
**Packing Group** III  
**Classification code** F1  
**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE), ENVIRONMENTALLY HAZARDOUS, 3, III  
**ADR/RID-Labels** 3

**ADR**

**UN-No.** UN1993  
**Proper Shipping Name** FLAMMABLE LIQUID, N.O.S.  
**Hazard Class** 3  
**Packing Group** III  
**Classification code** F1  
**Tunnel restriction code** (D/E)  
**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE), ENVIRONMENTALLY HAZARDOUS, 3, III, (D/E)

**ADN**

<b>UN-No</b>	UN1993
<b>Proper shipping name</b>	FLAMMABLE LIQUID, N.O.S.
<b>Hazard class</b>	3
<b>Packing group</b>	III
<b>Classification Code</b>	F1
<b>Special provisions</b>	274, 601, 640E
<b>Description</b>	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOBUTYL METHACRYLATE), ENVIRONMENTALLY HAZARDOUS, 3, III
<b>Hazard Labels</b>	3
<b>Limited quantity</b>	5 L
<b>Ventilation</b>	VE01

## 15. Regulatory Information

**International Inventories**

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL
IECSC	-

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

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

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	yes
<b>Chronic health hazard</b>	NO
<b>Fire hazard</b>	yes
<b>Sudden Release of Pressure Hazard</b>	NO
<b>Reactive hazard</b>	NO

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Isobutyl methacrylate 97-86-9	X				

**International regulations**

**CANADA**  
**WHMIS Hazard Class**  
 Not Determined

16. Other Information				
<b>NFPA</b>	Health hazards 2	flammability 2	Instability 0	<b>Physical and chemical hazards -</b>
<b>HMIS</b>	Health hazards 2 *	flammability 2	Physical hazard 0	<b>PERSONAL PROTECTION X</b>
<b>Chronic Hazard Star Legend</b> * = Chronic Health Hazard				
<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501			
<b>Issuing Date</b>	01-Mar-2017			
<b>Revision Date</b>	22-Jan-2021			
<b>Revision note</b>	No information available			

**Disclaimer**

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**End of Safety Data Sheet**