

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 1341291 Issue date: 8/3/2022 Revision date: 8/3/2022 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form Product name Product code	: Mixture : SamplKwick : 20-3564, 20-	•	3564-640, 20-3568
1.2. Recommended use and restriction	s on use		
Use of the substance/mixture Recommended use Restrictions on use	: Laboratory c : Laboratory c : None known	hemicals	
1.3. Supplier			
Buehler 41 Waukegan Rd Lake Bluff, IL 60044 T 1-847-295-6500 <u>custserv@buehler.com</u>			
1.4. Emergency telephone number			
	Asia Pacific ·		i45; Americas" +1 760 476 3962; Middle East/Africa: +1 760 476 3959; i60; Europe +1 760 476 3961
SECTION 2: Hazard(s) identificatio	n		
2.1. Classification of the substance or	mixture		
GHS US classification Flammable liquids Category 3 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Skin sensitization, Category 1 Specific target organ toxicity – Single exposure Respiratory tract irritation Full text of H statements : see section 16		H226 H315 H319 H317 H335	Flammable liquid and vapor Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause respiratory irritation
2.2. GHS Label elements, including pre	cautionary statem	ents	
GHS US labeling			
Hazard pictograms (GHS US)			
Signal word (GHS US) Hazard statements (GHS US)	: Warning : H226 - Flami	mable liquid a	

H315 - Causes skin irritation

- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - If on skin: Wash with plenty of water. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - If inhaled: Remove person to fresh air and keep 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. P321 - Specific treatment (see supplemental first aid instruction on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P363 - Wash contaminated clothing before reuse. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Isobutyl methacrylate	CAS-No.: 97-86-9	< 90	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

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SECTION 4: First-aid measures 4.1. Description of first aid measures First-aid measures general : Call a poison center/doctor/physician if you feel unwell. First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. Call a poison · center/doctor/physician if you feel unwell. First-aid measures after skin contact Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. First-aid measures after eye contact : 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. First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell. 4.2. Most important symptoms and effects (acute and delayed) Symptoms/effects after inhalation : May cause respiratory irritation. Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction. Symptoms/effects after eye contact Eye irritation. ·

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing	g media		
Suitable extinguishing media Unsuitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. : Not determined.		
5.2. Specific hazards arising from the chem	nical		
Fire hazard Hazardous decomposition products in case of fire	Flammable liquid and vapor.Toxic fumes may be released.		
5.3. Special protective equipment and prec	autions for fire-fighters		
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 		

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipm	ent and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures :	Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment :	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands
7.2. Conditions for safe storage, includi	after handling the product. ng any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
SamplKwick Liquid	
No additional information available	
Isobutyl methacrylate (97-86-9)	
No additional information available	
Trimethylolpropane trimethacrylate (3290-	92-4)
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.
8.3. Individual protection measures/Persor	al protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	

Storage conditions

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear.
Color	: Colorless Yellow
Odor	: Acrid
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 155 °C
Flash point	: 46 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.913
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: 390 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapor.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (dermal)	Not classified. Not classified. Not classified.
Isobutyl methacrylate (97-86-9)	
LD50 oral rat	9590 mg/kg
ATE US (oral)	9590 mg/kg body weight
Serious eye damage/irritation:Respiratory or skin sensitization:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:	Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Not classified. Not classified. Not classified. May cause respiratory irritation.
STOT-single exposure	May cause respiratory irritation.
Aspiration hazard:Viscosity, kinematic:Symptoms/effects after inhalation:Symptoms/effects after skin contact:	Not classified. Not classified. No data available May cause respiratory irritation. Irritation. May cause an allergic skin reaction. Eye irritation.

SECTION 12: Ecological information 12.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Isobutyl methacrylate (97-86-9) LC50 - Fish [1] 20 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) EC50 - Crustacea [1] 23 mg/l (Exposure time: 48 h - Species: Daphnia magna)

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12.2. Persistence and degradability		
No additional information available		
12.3. Bioaccumulative potential		
Isobutyl methacrylate (97-86-9)		
Partition coefficient n-octanol/water (Log Pow)	2.95 (at 20 °C (at pH 0)	
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects		
No additional information available		
CECTION 42. Dise and association (
SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods Additional information	 Dispose of contents/container in accordance with licensed collector's sorting instructions. Flammable vapors may accumulate in the container. 	
SECTION 14: Transport information		
In accordance with DOT / IMDG / IATA		
14.1. UN number		
DOT NA No UN-No. (IMDG)	: UN2283 : 2283	
UN-No. (IATA)	: 2283	
14.2. UN proper shipping name		
Proper Shipping Name (DOT)	: Isobutyl methacrylate, stabilized	
Proper Shipping Name (TDG) Proper Shipping Name (IMDG)	: ISOBUTYL METHACRYLATE, STABILIZED : ISOBUTYL METHACRYLATE, STABILIZED	
Proper Shipping Name (IATA)	: Isobutyl methacrylate, stabilized	
14.3. Transport hazard class(es)		
DOT Transport hazard class(es) (DOT)	: 3	
Hazard labels (DOT)	: 3	
	PLANAALE LIQUID	
IMDG		
Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: 3 : 3	

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IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	
14.4. Packing group	
Packing group (DOT) Packing group (IMDG) Packing group (IATA)	: III : III : III
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	· · · · · · · · · · · · · · · · · · ·
DOT	
UN-No.(DOT) DOT Special Provisions (49 CFR 172.102) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	 UN2283 387 - When materials are stabilized by temperature control, the provisions of §173.21(f) of this subchapter apply. When chemical stabilization is employed, the person offering the material for transport shall ensure that the level of stabilization is sufficient to prevent the material as packaged from dangerous polymerization at 50 °C (122 °F). If chemical stabilization becomes ineffective at lower temperatures within the anticipated duration of transport, temperature control is required and is forbidden by aircraft. In making this determination factors to be taken into consideration include, but are not limited to, the capacity and geometry of the packaging and the effect of any insulation present, the temperature of the material when offered for transport, the duration of the journey, and the ambient temperature conditions typically encountered in the journey (considering also the season of year), the effectiveness and other properties of the stabilizer employed, applicable operational controls imposed by regulation (e.g. requirements to protect from sources of heat, including other cargo carried at a temperature above ambient) and any other relevant factors. The provisions of this special provision will be effective until January 2, 2019, unless we terminate them earlier or extend them beyond that date by notice of a final rule in the Federal Register. B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized

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DOT Quantity Limitations Passenger aircraft/rail (CFR 173.27)	49 : 60 L
DOT Quantity Limitations Cargo aircraft only (49	: 220 L
CFR 175.75)	
DOT Vessel Stowage Location	: C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 25 - Protected from sources of heat
C C	
IMDG	
Special provision (IMDG)	: 386
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG)	: C
Flash point (IMDG)	: 49°C c.c.
Properties and observations (IMDG)	: Colourless liquid. Flashpoint: 49°C c.c. Immiscible with water. Irritating to skin, eyes and
	mucous membranes.
ΙΑΤΑ	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
· · · · · · · · · · · · · · · · · · ·	

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: A209

: 3L

Not applicable

ERG code (IATA)

Special provision (IATA)

SECTION 15: Regulatory information

15.1. US Federal regulations

SamplKwick Liquid	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Respiratory or skin sensitization Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation Health hazard - Specific target organ toxicity (single or repeated exposure)

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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15.2. International regulations	
Isobutyl methacrylate (97-86-9)	
Listed on the NCI (Vietnam - National Chemical Inventory)	
15.3. US State regulations	

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Isobutyl methacrylate(97-86-9)	U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Full text of H-phrases	
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

Safety Data Sheet (SDS), USA - HSI

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