MMB kuraray

Safety Data Sheet KIM-019US according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/08/2013 Revision date: 11/14/2022 Version: 7.0

SECTION 1: Identifica	ation	
1.1. Identification		
Product form	:	Substance
Trade name	:	ММВ
CAS-No.	:	56539-66-3
Formula	:	C6H14O2
Synonyms	:	Butan-1-ol, 3-methyl-3-methoxy- / 3-Methoxy-3-methyl-1-butanol / 3-Methoxy-3-methylbutan-1- ol / Butanol, 3-methoxy-3-methyl / 3-Methoxy-3-methyl-butanol / 3-Methyl-3-methoxybutanol / Aliphatic propylene glycol ethers / METHOXYMETHYLBUTANOL
Chemical structure	:	ОМе
1.2. Recommended u	se and restrictions o	
No additional information ava		
1.3. Supplier		
Manufacturer: Kuraray Co., Ltd. Isoprene Chemicals Division	, Chemicals Marketing	and Sales Dept.
Tokiwabashi Tower 2-6-4, O TEL +81-3-6701-1623 FA		Tokyo 100-0004, Japan
Supplier: Kuraray America, Inc. 3700 Bay Area Boulevard, S TEL +1-281-283-1790	uite 680, Houston, Tex	kas 77058, USA
1.4. Emergency telep	hone number	
Emergency number	:	For chemical emergency spill, leak, fire, exposure or accident Call CHEMTREC day or night Within USA and Canada: 1-800-424-9300 CCN706984 or +1 703-527-3887 (collect calls accepted
SECTION 2: Hazard(s) identification	
2.1. Classification of	the substance or mix	ture
GHS-US classification		
Flammable liquids	H227	Combustible liquid
Category 4 Serious eye damage/eye irritation Category 2B	H320	Causes eye irritation
2.2. GHS Label eleme	ents, including precau	itionary statements
GHS-US labeling		
Signal word (GHS-US)	:	Warning
Hazard statements (GHS-US	S) :	H227 - Combustible liquid H320 - Causes eye irritation
Precautionary statements (G	SHS-US) :	 P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. 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 wh	nich do not result in c	lassification
No additional information ava	ailable	
2.4. Unknown acute to	oxicity (GHS US)	
Not applicable		

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SECTION 3: Composition/Informat	ion on ingredients			
.1. Substances				
Name		Product identifier	%	GHS-US classification
3-Methoxy-3-methyl-1-butanol		(CAS-No.) 56539-66-3	>= 98	Flammable liquids Cat. 4 Eye irritation Cat. 2B
.2. Mixtures				
lot applicable				
SECTION 4: First-aid measures				
I.1. Description of first aid measures				
First-aid measures after inhalation	head towards side, if vic	tim is breathing and vom	iting. If you	mfortable for breathing. Turn vict u feel unwell, seek medical advic
First-aid measures after skin contact	: Remove affected clothin by warm water rinse. Ge			with mild soap and water, followe
First-aid measures after eye contact	: IF IN EYES: Rinse caution and easy to do. Continue			s. Remove contact lenses, if pres tion.
First-aid measures after ingestion		edical attention. Never g		er (only if the person is consciou ng by mouth to an unconscious
4.2. Most important symptoms and eff	ects (acute and delayed)			
No additional information available				
I.3. Immediate medical attention and	special treatment, if necessa	ry		
lo additional information available				
SECTION 5: Fire-fighting measures	3			
5.1. Suitable (and unsuitable) extingui	shing media			
Suitable extinguishing media	: Water spray/ Atomized dioxide. Dry sand.	l water / Alcohol resistan	t foam / Dr	y extinguishing powder/Carbon
Jnsuitable extinguishing media	: High volume water jet	(it may spread the fire)		
5.2. Specific hazards arising from the	chemical			
lo additional information available				
5.3. Special protective equipment and	precautions for fire-fighters			
Firefighting instructions		oling exposed container		due to the risk of explosion. Use e area. Prevent fire-fighting wate
Protection during firefighting	: Do not attempt to take a	ction without suitable pro	otective eq	uipment.
SECTION 6: Accidental release me	asures			
5.1. Personal precautions, protective		rocedures		
General measures	: Wear personal protective	e equipment. Remove pe		afety. Provide adequate ventilati special care to avoid static electr
6.1.1. For non-emergency personnel No additional information available				
5.1.2. For emergency responders No additional information available				
5.2. Environmental precautions				
Prevent spread over a wide area (e.g. by conta	ainment or oil barriers). Do not	allow to enter into surface	ce water or	drains.
.3. Methods and material for contain	·			
For containment	: Collect spillage. Collect i	in closed containers for a	disposal.	
Aethods for cleaning up	: This material and its con	tainer must be disposed	of in a saf	e way, and as per local legislatio bsorbent material and shovel int
6.4. Reference to other sections				

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide good ventilation in process area to prevent formation of vapor. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, include	ing any incompatibilities
Technical measures	: Use only non-sparking tools. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. provide eye wash and label its location conspicuously. Comply with applicable regulations.
Storage conditions	: Protect from sunlight. Store in a well-ventilated place. Store in a place accessible by authorized persons only. Keep locked up. Keep container closed when not in use. Ensure adequate ventilation of the storage area. Keep in fireproof place. Keep cool.
Incompatible products	: Alkalis. Strong bases. Strong acids. Oxidizing agent.
Storage area	: Store in a well-ventilated place.

SECTION 8: Exposure controls/personal protection
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8.1. **Control parameters**

3-Methoxy-3-methyl-1-butanol (56539-66-3)

Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls

: Devices with local exhaust. provide sufficient washing facilities.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection:

Framed glasses. Chemical goggles or face shield.

Skin and body protection:

Protective clothing: Lab coat. Lab apron. Chemical resistant suit. Safety shoes.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemica	Il properties	
9.1. Information on basic physical and	d chemical properties	
Physical state	: Liquid	
Color	: Colorless	
Odor	: No data available	
рН	: Not applicable	
Melting point	: <-50 °C	
Boiling point	: 173 °C	
Flash point	: 68 °C (Tag closed tester) / 71 °C (closed cup) *2	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: 0.47 hPa (20 °C) *1	
Relative vapor density at 20 °C	: 4.1 (Air=1)	
Relative density	: 0.91 g/cm3 (20 °C) *2	
Solubility	: miscible in all proportions with water	
Log Pow	: No data available	
Auto-ignition temperature	: 395 °C	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
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Viscosity, dynamic	: 12.5 mPa • s (20 °C) OECD114 *2
Explosion limits	: 1.2 - 13.1 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
Minimum ignition energy	: No data available
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Overheating. Sparks. Open flame. Direct sunligh	t.
10.5. Incompatible materials	
Oxidizing agents, strong. Reducing agents, stror	ng. Peroxides.
10.6. Hazardous decomposition products	
Carbon monoxide.	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acuto toxicity (oral)	+ 1 DE0 (rat): 1100 mg/kg (CI P)* ³
Acute toxicity (oral)	: LD50 (rat): 4400 mg/kg (GLP)* ³ LD50 (mouse): 5830 mg/kg * ⁴
Acute toxicity (oral) Acute toxicity (dermal)	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵
• • •	LD50 (mouse): 5830 mg/kg * ⁴
• • •	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵
Acute toxicity (dermal)	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵ LD50 (mouse): > 2000 mg/kg * ⁴
Acute toxicity (dermal) Skin corrosion/irritation	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵ LD50 (mouse): > 2000 mg/kg * ⁴ : No irritant (rabbit) * ⁵
Acute toxicity (dermal) Skin corrosion/irritation Serious eye damage/irritation	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵ LD50 (mouse): > 2000 mg/kg * ⁴ : No irritant (rabbit) * ⁵ : Moderate irritating (rabbit) * ⁵
Acute toxicity (dermal) Skin corrosion/irritation Serious eye damage/irritation skin sensitization	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵ LD50 (mouse): > 2000 mg/kg * ⁴ : No irritant (rabbit) * ⁵ : Moderate irritating (rabbit) * ⁵ : No evidence of skin sensitization. (Guinea-pig) * ⁵ : No data available : Ames test: Negative * ³
Acute toxicity (dermal) Skin corrosion/irritation Serious eye damage/irritation skin sensitization Respiratory sensitization Germ cell mutagenicity	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵ LD50 (mouse): > 2000 mg/kg * ⁴ : No irritant (rabbit) * ⁵ : Moderate irritating (rabbit) * ⁵ : No evidence of skin sensitization. (Guinea-pig) * ⁵ : No data available : Ames test: Negative * ³ Chromosomal aberration test (CHO cells): Negative * ⁶
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Acute toxicity (dermal) Skin corrosion/irritation Serious eye damage/irritation skin sensitization Respiratory sensitization Germ cell mutagenicity Carcinogenicity	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵ LD50 (mouse): > 2000 mg/kg * ⁴ : No irritant (rabbit) * ⁵ : Moderate irritating (rabbit) * ⁵ : No evidence of skin sensitization. (Guinea-pig) * ⁵ : No data available : Ames test: Negative * ³ Chromosomal aberration test (CHO cells): Negative * ⁶ : No data available : No data available : No data available : No data available
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Acute toxicity (dermal) Skin corrosion/irritation Serious eye damage/irritation skin sensitization Respiratory sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵ LD50 (mouse): > 2000 mg/kg * ⁴ : No irritant (rabbit) * ⁵ : Moderate irritating (rabbit) * ⁵ : No evidence of skin sensitization. (Guinea-pig) * ⁵ : No data available : Ames test: Negative * ³ Chromosomal aberration test (CHO cells): Negative * ⁶ : No data available : No data available : No effects on fertility of male and female parents and on each of the indices for development/growth of pups were evident. (Species: rat, applied dose: 250, 500, 2000 mg/kg bw/day, GLP compliance) * ⁷ : No data available
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Acute toxicity (dermal) Skin corrosion/irritation Serious eye damage/irritation skin sensitization Respiratory sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵ LD50 (mouse): > 2000 mg/kg * ⁴ : No irritant (rabbit) * ⁵ : Moderate irritating (rabbit) * ⁵ : No evidence of skin sensitization. (Guinea-pig) * ⁵ : No data available : Ames test: Negative * ³ Chromosomal aberration test (CHO cells): Negative * ⁶ : No data available : No effects on fertility of male and female parents and on each of the indices for development/growth of pups were evident. (Species: rat, applied dose: 250, 500, 2000 mg/kg bw/day, GLP compliance) * ⁷ : No data available : <28days Repeat Dose Oral toxicity (rat)> * ⁶ MMB cause reversible effects mainly on the liver and kidney in the test. NOEL (male) 60 mg/kg/day
Acute toxicity (dermal) Skin corrosion/irritation Serious eye damage/irritation skin sensitization Respiratory sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵ LD50 (mouse): > 2000 mg/kg * ⁴ : No irritant (rabbit) * ⁵ : Moderate irritating (rabbit) * ⁵ : No evidence of skin sensitization. (Guinea-pig) * ⁵ : No data available : Ames test: Negative * ³ Chromosomal aberration test (CHO cells): Negative * ⁶ : No data available : No data available : No effects on fertility of male and female parents and on each of the indices for development/growth of pups were evident. (Species: rat, applied dose: 250, 500, 2000 mg/kg bw/day, GLP compliance) * ⁷ : No data available : <28days Repeat Dose Oral toxicity (rat)> * ⁶ MMB cause reversible effects mainly on the liver and kidney in the test. NOEL (male) 60 mg/kg/day NOEL(female) 250 mg/kg/day
Acute toxicity (dermal) Skin corrosion/irritation Serious eye damage/irritation skin sensitization Respiratory sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated	LD50 (mouse): 5830 mg/kg * ⁴ LD50 (rat): > 2000 mg/kg (GLP) * ⁵ LD50 (mouse): > 2000 mg/kg * ⁴ : No irritant (rabbit) * ⁵ : Moderate irritating (rabbit) * ⁵ : No evidence of skin sensitization. (Guinea-pig) * ⁵ : No data available : Ames test: Negative * ³ Chromosomal aberration test (CHO cells): Negative * ⁶ : No data available : No effects on fertility of male and female parents and on each of the indices for development/growth of pups were evident. (Species: rat, applied dose: 250, 500, 2000 mg/kg bw/day, GLP compliance) * ⁷ : No data available : <28days Repeat Dose Oral toxicity (rat)> * ⁶ MMB cause reversible effects mainly on the liver and kidney in the test. NOEL (male) 60 mg/kg/day

SECTION 12: Ecological information	
12.1. Toxicity	
MMB (56539-66-3)	
Acute toxicity to Fish	LC50 > 100 mg/L (96 h, Oryzias latipes) * ⁹ TLm 7400 ppm (48 h, Oryzias latipes) * ¹⁰
Acute toxicity to Daphnia	EC50 > 1000 mg/L (48h, Daphnia magnae) *9
Algal growth inhibition test	ErC50 > 1000 mg/L (72h, Selenastrum capricornutum) *9
Daphnia magna Reproduction Test	NOEC >= 100 mg/L (21 days, Daphnia magna) *9

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Product is biodegradable.
5.0 mg/L(1000mg/L aqueous solution) *11
8060 mg/l (Result of 1% aqueous solution of MMB) *11
No data available
No data available.
This material dissolves in water and may move in the soil.
. No known offecto from this product
: No known effects from this product.
: No known effects from this product.
ions
: The low-concentrated waste water of this substnce can disintegrate in activated sludge.
on
: NA1993
: Combustible liquid, n.o.s. (Contains: 3-Methoxy-3-methyl-1-butanol)
: Combustible liquid
: 111
: Non-bulk package (<=400 kg) :Not regulated.
: Check there are not the damage and/or a leak of the container. Ensure prevention of collapse of cargo. The transport container must be handled carefully, in order to avoid the impact. Do not fall down and/or bump. High humidity strictly prohibited. Note Fire (liquids more than ignitio point 70 degrees Celsius). During the loading and unloading of tank trucks, please use the bollard. Make sure the connection of the hose. Remove the residue in the hose completely, before disconnecting the hose.
: Not applicable.
: Not applicable.
: Not applicable.
: Not applicable. : Not applicable.

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SECTION 15: Regulatory information	
15.1. US Federal regulations	
MMB (56539-66-3)	
Listed on the United States TSCA (Toxic Substances Cor	ntrol Act) inventory
SARA Section 311/312 Hazard Classes	Health hazard - Serious eye damage or eye irritation Physical hazard - Flammable (gases, aerosols, liquids, or solids)

15.2. International regulations

CANADA

MMB (56539-66-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

MMB (56539-66-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

MMB (56539-66-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

15.3. US State regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No

SECTION 16: Other information

Revision date	: 11/14/2022
Reference	 *¹ Notox/NL *² ECHA Website *³ Huntingdon Research Centre Ltd./UK 4) Japan Industrial Safety & Health Association. *⁴ Japan Industrial Safety & Health Association. *⁵ Inveresk Reserch International Ltd./UK *⁶ Japan Existing Chemical Data Base 7) ARGUS RESEARCH LABORATORIES,INC *⁷ ARGUS RESEARCH LABORATORIES,INC *⁸ eurofins *⁹ Japan CHEmicals Collaborative Knowledge database. *¹⁰ Chemicals Inspection & Testing Inst., Japan, *¹¹ NIPPON YURYO KENTEL KYOKAL / JISK-0102-17
Reference database	: Cosing, JCDB DATABASE, LOLI

H227	Combustible liquid
H320	Causes eye irritation

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product