according to Regulation (EC) No. 1907/2006

MMB (3-Methoxy-3-Methyl-1-Butanol)

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

1.1 Product identifier

Trade name	:	MMB (3-Methoxy-3-Methyl-1-Butanol)
Product code	:	KIM-019
REACH Registration Number	:	01-2119976333-33-0000
Substance name	:	3-Methoxy-3-methylbutan-1-ol
EC-No.	:	260-252-4

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

Use of the Sub-	:	Cleaning agent, Coatings, Raw material
stance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company	:	Kuraray Co., Ltd. Isoprene Chemicals Division Importer: Kuraray Europe GmbH Philipp-Reis-Straße 4 65795 Hattersheim am Main, Deutschland
Telephone	:	+49-69-305-35844
E-mail address of person responsible for the SDS	:	sds.chem@kuraray.com

1.4 Emergency telephone number

+44 20 35147487(GB) (access code :334674)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REC	GULATION (E	C) No 1272/2008)		
	-		_	

Eye irritation, Category 2

H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

1

Hazard pictograms



Signal word

Warning

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Hazar	d statements	:	H319	Causes se	rious eye irritation.	
Precautionary statements		:	Prevention:			
			P264 P280		thoroughly after handling. protection/ face protection.	
			Response:			
			P337 + attentio		eye irritation persists: Get medical advice/	

2.3 Other hazards

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	:	3-Methoxy-3-methylbutan-1-ol
EC-No.	:	260-252-4

Components

Chemical name	CAS-No.	Concentration (% w/w)
	EC-No.	
3-Methoxy-3-methylbutan-	56539-66-3	>= 98.0
1-ol	260-252-4	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.

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If swallowed		:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.				
4.2 Most	important symptoms ar	nd e	effects, both ac	ute and delayed			
Risks	5	:	Causes serious	s eye irritation.			
4.3 Indica	ation of any immediate	meo	dical attention a	and special treatment needed			
Treat	tment	:	Treat symptom	natically and supportively.			
SECTIO	N 5: Firefighting meas	sur	es				
5.1 Exting	guishing media						
Suitable extinguishing media			Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical				
Unsu medi	iitable extinguishing a	:	High volume w	ater jet			
5.2 Speci	al hazards arising from	the	e substance or	mixture			
Specific hazards during fire- fighting		:	Do not use a se fire. Flash back pos Vapours may f	olid water stream as it may scatter and spread ssible over considerable distance. orm explosive mixtures with air. ombustion products may be a hazard to health.			
Haza ucts	ardous combustion prod-	:	: Carbon oxides				
5.3 Advic	e for firefighters						
Spec	ial protective equipment refighters	:	In the event of fire, wear self-contained breathing apparate Use personal protective equipment.				
Spec ods	ific extinguishing meth-	:	 Use extinguishing measures that are appropriate to loc cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is sa so. Evacuate area. 				

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

• • •		
Personal precautions	:	Remove all sources of ignition.
		Use personal protective equipment.

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			safe hand commenc	ling advice and personal protective equip- lations.			
6.2 Enviror	mental precautions						
Environmental precautions :		Prever Prever barrier Retain Local a	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.				
6.3 Method	s and material for co	ntainment a	nd cleani	ng up			
Method	ds for cleaning up	Soak u Suppre spray j For lar ment to be pun Clean bent. Local o posal o employ mine w Section	p with iner ss (knock et. ge spills, p b keep mat uped, store up remaini r national f this mate ed in the c hich regula is 13 and	Is should be used. t absorbent material. down) gases/vapours/mists with a water rovide dyking or other appropriate contain- terial from spreading. If dyked material can a recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.			

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Avoid inhalation of vapour or mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges.

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			environment.	ent spills, waste and minimize release to the			
Hygiene measures		:	: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use.				
7.2 Condit	ions for safe storage,	inc	luding any incom	oatibilities			
	ements for storage and containers	:	Keep in a cool, w	labelled containers. Keep tightly closed. ell-ventilated place. Store in accordance with onal regulations. Keep away from heat and n.			
Advice	e on common storage	on storage : Do not sto Strong ox Explosive Gases		the following product types: agents			
-	c end use(s) ic use(s)	:	No data available				

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

	\		、	
Substance name	End Use	Exposure routes	Potential health ef- fects	Value
3-Methoxy-3- methylbutan-1-ol	Workers	Inhalation	Long-term systemic effects	18 mg/m3
	Workers	Skin contact	Long-term systemic effects	6.25 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4.4 mg/m3
	Consumers	Skin contact	Long-term systemic effects	3.1 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2.5 mg/kg bw/day

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

Eye protection

: Wear the following personal protective equipment: Safety goggles

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			Equipment should	conform to BS EN 166
Hand	l protection			
Bi G	aterial reak through time love thickness irective	:	butyl-rubber > 480 min 0.7 mm Equipment should	conform to BS EN 374
R	emarks	:	on the concentrat stance and specif we recommend cl aforementioned p	protect hands against chemicals depending ion and quantity of the hazardous sub- ic to place of work. For special applications, arifying the resistance to chemicals of the rotective gloves with the glove manufactur- efore breaks and at the end of workday.
Skin	and body protection	:	resistance data an potential. Wear the following If assessment der atmospheres or fl protective clothing Skin contact must	e protective clothing based on chemical nd an assessment of the local exposure g personal protective equipment: monstrates that there is a risk of explosive ash fires, use flame retardant antistatic g. be avoided by using impervious protective aprons, boots, etc).
Resp	iratory protection	:	sure assessment	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection.
Filter	type	:	Organic vapour ty	rpe (A)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless
Odour	:	slight, ether-like
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	< -50 °C
Initial boiling point and boiling range	:	173 °C
Flash point	:	71 °C

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	Evapor	ation rate	:	No data available	9
	Flamm	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	13.1 %(V)	
		explosion limit / Lower bility limit	:	1.2 %(V)	
	Vapour	pressure	:	0.47 hPa (20 °C)	
	Relativ	e vapour density	:	4.1	
	Density	/	:	0.92 g/cm3 (20 °	C)
	Solubili Wat	ty(ies) er solubility	:	completely misci	ble
	Partitio octanol	n coefficient: n- /water	:	No data available	
	Auto-ig	nition temperature	:	395 °C	
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, dynamic	:	12.5 mPa.s (20 °	C)
	Viso	cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2 (Other ir	oformation			
	Flamm	ability (liquids)	:	No data available	9
	Particle	e size	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions

Combustible liquid.

:

Vapours may form explosive mixture with air. Can react with strong oxidizing agents.

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10.5 Incompa Materials 10.6 Hazardo No hazar SECTION 11 11.1 Informati exposure Acute to Not class <u>Compon</u>	ns to avoid atible materials s to avoid ous decomposition p rdous decomposition p 1: Toxicological inf tion on toxicological on on likely routes of	fori eff	lucts are known.	
10.5 Incompa Materials 10.6 Hazardo No hazar SECTION 11 11.1 Informati exposure Acute to Not class <u>Compon</u>	atible materials to avoid ous decomposition p rdous decomposition p 1: Toxicological inf tion on toxicological on on likely routes of	fori eff	Oxidizing agents l ucts ducts are known.	
Materials 10.6 Hazardo No hazar SECTION 11 11.1 Information exposure Acute to Not class <u>Compon</u>	to avoid bus decomposition p rdous decomposition p 1: Toxicological inf tion on toxicological on on likely routes of	fori eff	l ucts ducts are known.	5
Materials 10.6 Hazardo No hazar SECTION 11 11.1 Information exposure Acute to Not class <u>Compon</u>	to avoid bus decomposition p rdous decomposition p 1: Toxicological inf tion on toxicological on on likely routes of	fori eff	l ucts ducts are known.	5
No hazar SECTION 11 11.1 Information exposure Acute to Not class <u>Compon</u>	rdous decomposition p 1: Toxicological inf tion on toxicological on on likely routes of	fori eff	lucts are known.	
SECTION 11 11.1 Information Information exposure Acute to Not class <u>Compon</u>	1: Toxicological inf tion on toxicological on on likely routes of	forı eff		
11.1 Information Information exposure Acute to Not class <u>Compon</u>	tion on toxicological on on likely routes of	eff	mation	
Information exposure Acute to Not class <u>Compon</u>	on on likely routes of			
exposure Acute to Not class <u>Compon</u>	•		ects	
Not class <u>Compon</u>		:	Inhalation Skin contact	
Not class <u>Compon</u>			Ingestion Eye contact	
<u>Compon</u>	oxicity			
	sified based on availab	ole i	nformation.	
3-Metho	ients:			
	xy-3-methylbutan-1-	ol:		
Acute ora	al toxicity	:	LD50 (Rat): 4,400 Method: OECD T	
Acute de	rmal toxicity	:	LD50 (Rat): > 2,0 Assessment: The toxicity	00 mg/kg substance or mixture has no acute dermal
Skin cor	rosion/irritation			
Not class	sified based on availat	ole i	nformation.	
<u>Compon</u>	ents:			
3-Metho	xy-3-methylbutan-1-	ol:		
Species Result		:	Rabbit No skin irritation	
	eye damage/eye irrit	atio	on	
	serious eye irritation.			
<u>Compon</u>	ents:			
3-Metho	xy-3-methylbutan-1-	ol:		
Species Result		:	Rabbit Irritation to eyes,	reversing within 21 days

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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

3-Methoxy-3-methylbutan-1-ol:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

3-Methoxy-3-methylbutan-1-ol:

Genotoxicity in vitro :

Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative

Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative

Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

3-Methoxy-3-methylbutan-1-ol:

Effects on fertility	:	Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 421 Result: negative
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative

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STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

3-Methoxy-3-methylbutan-1-ol:						
Species	:	Rat				
NOAEL	:	250 mg/kg				
Application Route	:	Ingestion				
Exposure time	:	90 Days				
Method	:	OECD Test Guideline 408				

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

3-Methoxy-3-methylbutan-1-ol:

Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 1,000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50 : > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC: 100 mg/l Exposure time: 21 d

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ic toxicity)		Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211			
12.2	Persis	tence and degradabil	ity		
	Compo	onents:			
	3-Meth	oxy-3-methylbutan-1	-ol:		
	Biodeg	radability	:	Biodegradation: Exposure time: 28	3 d est Guideline 310 78.9 %
12.3 Bioaccumulative potential					
	Compo	onents:			
	3-Meth	oxy-3-methylbutan-1	-ol:		

Partition coefficient: n- : log Pow: 0.18 octanol/water

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

:	Dispose of in accordance with local regulations.
	According to the European Waste Catalogue, Waste Codes
	are not product specific, but application specific.
	Waste codes should be assigned by the user, preferably in
	discussion with the waste disposal authorities.

Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.
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SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pol- lutants	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Other regulations:

Exposure Scenario is available as separate attachment.

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15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Other information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for

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safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN