



Safety Data Sheet according to (EC) No 1907/2006 as amended

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BITUBOND HM

SDS No. : 563785
V003.0

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

1.1. Product identifier

BITUBOND HM

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

Intended use:

Bituminous product

1.3. Details of the supplier of the safety data sheet

Henkel Jebal Ali FZCO

PO Box 61341 - Jebel Ali

Dubai

Utd.Arab.Emir.

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.
SDSinfo.Adhesive@henkel.com

1.4. Emergency telephone number

HAAD Poison and Drug Information Center UAE, TOLL FREE TEL. NUMBER 800-424

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2. Label elements

Label elements (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.3. Other hazards

None if used properly.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg. No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Asphalt 8052-42-4 232-490-9 01-2119480172-44	40- < 60 %			

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

Rinse immediately with plenty of running water, seek medical advice if necessary.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

No data available.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.
Danger of slipping on spilled product.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically.
Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No particular measures required.

Hygiene measures:

Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat and direct sunlight.
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Bituminous product

SECTION 8: Exposure controls/personal protection

8.1. Control parameters**Occupational Exposure Limits**

Valid for
Utd.Arab.Emir.

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Asphalt 8052-42-4 [ASPHALT (BITUMEN) FUME AS BENZENE-SOLUBLE AEROSOL, INHALABLE FRACTION OF THE AEROSOL]		0,5	Time Weighted Average (TWA):		AD TLV
Asphalt 8052-42-4 [ASPHALT (FUMES)]		5	Time Weighted Average (TWA):		DB OEL
Asphalt 8052-42-4 [ASPHALT (FUMES)]		5	Time Weighted Average (TWA):		GCC TLV
Asphalt 8052-42-4 [ASPHALT (FUMES)]		5	Time Weighted Average (TWA):		UAE OEL
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 [MINERAL OIL, PURE, INHALABLE FRACTION OF THE AEROSOL MINERAL OIL, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION OF THE AEROSOL]		5	Time Weighted Average (TWA):		AD TLV
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 [OIL MIST, MINERAL]		0,2	Time Weighted Average (TWA):		AD TLV

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Occupational Exposure Limits

Valid for
Bahrain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Asphalt 8052-42-4 [ASPHALT (FUMES)]		5	Time Weighted Average (TWA):		BH TLV
Asphalt 8052-42-4 [ASPHALT (FUMES)]		5	Time Weighted Average (TWA):		GCC TLV

Occupational Exposure Limits

Valid for
Egypt

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Asphalt 8052-42-4 [ASPHALT (PETROLEUM) FUMES (AS BENZENE SOLUBLE AEROSOLS)]		0,5	Time Weighted Average (TWA):		EG OEL
Limestone 1317-65-3 [CALCIUM CARBONATE (INCLUDING LIMESTONE AND MARBLE), TOTAL DUST CONTAINING NO MORE THAN 1% CRYSTALLIZED SILICA AND NO ASBESTOS]		10	Time Weighted Average (TWA):		EG OEL
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 [Mineral oil mist (except irritant oil)]		10	Short-term Exposure Limit (STEL):		EG OEL
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 [Mineral oil mist (except irritant oil)]		5	Time Weighted Average (TWA):		EG OEL

Occupational Exposure Limits

Valid for
Jordan

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Asphalt 8052-42-4 [ASPHALT]		5	Time Weighted Average (TWA):		JO TLV

Occupational Exposure Limits

Valid for
Kuwait

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Asphalt 8052-42-4 [ASPHALT (FUMES)]		5	Time Weighted Average (TWA):		GCC TLV
Asphalt 8052-42-4 [ASPHALT (FUME)]			Harmful Concentration for risk to health and life:	Unknown	KW OEL

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Asphalt 8052-42-4 [ASPHALT (FUME)]		5	Short-term Exposure Limit (STEL):		KW OEL
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), INHALED]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), TOTAL]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), TOTAL]		10	Time Weighted Average (TWA):		KW OEL
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), INHALED]		5	Time Weighted Average (TWA):		KW OEL
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 [MINERAL OILS]		5	Time Weighted Average (TWA):		KW OEL
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 [MINERAL OILS]	2.500		Harmful Concentration for risk to health and life:		KW OEL
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 [MINERAL OILS]		10	Short-term Exposure Limit (STEL):		KW OEL

Occupational Exposure Limits

Valid for
Israel

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Asphalt 8052-42-4 [Asphalt (Bitumen) fume, as benzene-soluble aerosol, inhalable fraction]		0,5	Time Weighted Average (TWA):		IL OEL
Limestone 1317-65-3 [Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles]		10	Time Weighted Average (TWA):		IL OEL
Limestone 1317-65-3 [Particles (insoluble or poorly soluble) not otherwise specified, respirable particles]		3	Time Weighted Average (TWA):		IL OEL
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 [Metal working fluids]		0,25	Action level (AL):		IL OEL
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 [Metal working fluids]		0,5	Time Weighted Average (TWA):		IL OEL
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 [Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction]		5	Time Weighted Average (TWA):		IL OEL

Occupational Exposure Limits

Valid for

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Kenya

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Asphalt 8052-42-4 [ASPHALT, PETROLEUM FUMES]		5	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Asphalt 8052-42-4 [ASPHALT, PETROLEUM FUMES]		10	Short-term OEL-RL:		KE OEL-RL
Limestone 1317-65-3 [MARBLE TOTAL INHALABLE DUST LIMESTONE TOTAL INHALABLE DUST CALCIUM CARBONATE TOTAL INHALABLE DUST]		10	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Limestone 1317-65-3 [MARBLE RESPIRABLE DUST CALCIUM CARBONATE RESPIRABLE DUST LIMESTONE RESPIRABLE DUST]		5	Time-weighted average (TWA) OEL-RL:		KE OEL-RL

Biological Exposure Indices:

None

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Asphalt 8052-42-4 [Polycyclic aromatic hydrocarbons (PAHs)]	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	Sampling time: End of shift at end of work week.	2,5 µg/l	IL BEI	Background, BEI® value is adjusted for the Pyrene to Benzo(a)pyrene ratio of the PAH mixture to which workers are exposed.	Source of Limit value: ACGIH

8.2. Exposure controls:

Respiratory protection:

The product should only be used at workplaces with intensive ventilation/extraction. If intensive ventilation/extraction is not possible then self-contained independent respiratory protection should be worn.

Hand protection:

Not needed.

Eye protection:

Not needed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form	paste
Colour	Black
Odor	characteristic
Physical state	liquid
Melting point	> 100 °C (> 212 °F)
Initial boiling point	> 300 °C (> 572 °F); Internal Henkel specification
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	> 230 °C (> 446 °F); Internal Henkel specification

Auto-ignition temperature	Currently under determination
Decomposition temperature	Currently under determination
pH	Not applicable
Viscosity (kinematic)	Currently under determination
Viscosity, dynamic (Brookfield; 180 °C (356 °F))	1.000 - 1.500 cp Brookfield viscosity (RV DV-II+)
Solubility (qualitative)	Currently under determination
Partition coefficient: n-octanol/water	Currently under determination
Vapour pressure	Currently under determination
Density (25 °C (77 °F))	1,02 - 1,05 g/cm ³ Internal Henkel specification
Relative vapour density:	Currently under determination
Particle characteristics	Currently under determination

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

General toxicological information:

To the best of our knowledge no harmful effects are to be expected if the product is handled and used properly.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Asphalt 8052-42-4	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Asphalt 8052-42-4	LD50	> 2.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Asphalt 8052-42-4	LC50		dust/mist	4,5 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Asphalt 8052-42-4	not irritating	24 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Asphalt 8052-42-4	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Asphalt 8052-42-4	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Asphalt 8052-42-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
Asphalt 8052-42-4	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Asphalt 8052-42-4	positive	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Asphalt 8052-42-4	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Asphalt 8052-42-4	negative	inhalation		mouse	not specified
Asphalt 8052-42-4	negative	inhalation		rat	not specified

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Asphalt 8052-42-4	not carcinogenic	dermal	104 w daily	mouse	male	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Asphalt 8052-42-4	NOAEL F1 1.000 mg/kg	two- generation study	oral: gavage	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Asphalt 8052-42-4	NOAEL \geq 2.000 mg/kg	dermal	28 d 6 h/d, 3 d/w	rabbit	equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity**Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Asphalt 8052-42-4	LC50	> 1.000 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Asphalt 8052-42-4	EC50	> 1.000 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Asphalt 8052-42-4	NOEC	> 1.000 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Asphalt 8052-42-4	EC50	> 1.000 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Asphalt 8052-42-4	NOEC	> 1.000 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

No data available.

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Asphalt 8052-42-4	not readily biodegradable.	aerobic	0 %	28 d	OECD 301 A - F

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
Asphalt 8052-42-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

170302

SECTION 14: Transport information**14.1. UN number or ID number**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.2. UN proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.3. Transport hazard class(es)

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.4. Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

No information available:

Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2:	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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