

**H 2RM1 BODY Harden-R
0,05KG**

Version	Revision Date:	SDS Number:	Date of last issue: 2024/12/26
2.0	2025/11/17	0000000000507363 01	Date of first issue: 2024/05/08

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : H 2RM1 BODY Harden-R 0,05KG

Product code : 000000000050736301

Manufacturer or supplier's detailsBASF Coatings GmbH
Postfach 6123
48136 Münster
Deutschland**Emergency contact**Telephone: +49 2501 143688
E-mail address: product-safety-coatings@basf.comEmergency telephone : International emergency number:
Telephone: +49 180 2273-112**Recommended use of the chemical and restrictions on use**

Recommended use : Putty

2. HAZARDS IDENTIFICATION**GHS Classification**

Organic peroxides : Type E

Serious eye damage/eye
irritation : Category 2A

Skin sensitization : Category 1

Specific target organ toxicity -
repeated exposure : Category 2Short-term (acute) aquatic
hazard : Category 1

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Long-term (chronic) aquatic hazard : Category 1

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H242 Heating may cause a fire.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.
P220 Keep/Store away from clothing/ combustible materials.
P234 Keep only in original container.
P260 Do not breathe dust.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.

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P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage:

P410 Protect from sunlight.

P411 + P235 Store at temperatures not exceeding 25 °C/ 77 °F. Keep cool.

P420 Store away from other materials.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : organic peroxide
polyether
fillers
Water
cellulose ester

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
Benzoyl peroxide	dibenzoyl peroxide	94-36-0	Organic peroxides, Type B Serious eye damage/eye irritation, Category 2A Skin sensitization,	>= 25 -< 50

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			Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	
maleic acid dibutyl ester	dibutyl maleate	105-76-0	Skin sensitization, Category 1 Specific target organ toxicity - repeated exposure, Category 2	>= 20 -< 25

4. FIRST AID MEASURES

General advice

: Never give anything by mouth to an unconscious person.
First aid personnel should pay attention to their own safety.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
Immediately remove contaminated clothing.
In all cases of doubt, or when symptoms persist, seek medical attention.
Move out of dangerous area.

If inhaled

: If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial respiration.

If symptoms persist, call a physician.

In case of skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing

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	and shoes.
	Call a physician immediately.
In case of eye contact	: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
	Call a physician immediately.
	If easy to do, remove contact lens, if worn.
If swallowed	: Rinse mouth with water.
	Do not induce vomiting due to aspiration hazard.
	Keep at rest.
	If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	: May cause an allergic skin reaction.
	Causes serious eye irritation.
	May cause damage to organs through prolonged or repeated exposure.
	Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
	Dusts may cause mechanical irritation to eyes.
Notes to physician	: No known specific antidote.
	Treat symptomatically.

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Suitable extinguishing media : Dry powder

Carbon dioxide (CO₂)

Water spray

Foam

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Has a fire-promoting effect due to release of oxygen.

Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Advice for firefighters

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Cool containers/tanks with water spray.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Avoid breathing dust. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
Environmental precautions	: Do not allow uncontrolled discharge of product into the environment. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Avoid dust formation. Contain and collect mechanically and dispose of in accordance with local regulations. Ensure adequate ventilation.

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7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

The relevant fire protection measures should be noted.

Avoid dust formation.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Protect from moisture.

Avoid creating dust.

Further information on storage conditions : Keep away from heat.

Avoid direct sunlight.

Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel.

The product may have contact with suitable materials only,

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e.g. unpigmented polyethylene or steel to material code St 4571.

Always keep in containers of same material as the original one.

Observe label precautions.

Protect from moisture.

Keep in a dry, cool and well-ventilated place.

Materials to avoid : Reducing agents, heavy metal compounds, acids, alkalis, contamination.

Oxidizing agents

Organic materials

Recommended storage temperature : 5.00 - 25.00 °C

Packaging material : Suitable material: Polypropylene, Low density polyethylene (LDPE), High density polyethylene (HDPE), Polyethylenetherephtalate (PET)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Benzoyl peroxidedibenzoyl	94-36-0	TWA	5 mg/m ³	TH OEL

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peroxideBenzoyl peroxidedibenzoyl peroxide				
		TWA	5 mg/m3	ACGIH

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Wear respiratory protection if ventilation is inadequate.

Hand protection

Remarks : Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.

butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable materials for short-term contact (recommended: At least

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protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Preventive skin protection

Eye protection : Required when there is a risk of eye contact.

tight-fitting protective goggles with face screen

Skin and body protection : chemical-resistant disposable coveralls

Care should be taken in the selection of protective clothing to ensure that inflammation of the skin at neck and wrists through contact with the powder is avoided.

Protective measures : Eye wash fountains and safety showers must be easily accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Avoid breathing dust.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.

Wash hands before breaks and at the end of workday.

Keep away from food, drink and animal feedingstuffs.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Color : red

Odor : characteristic

pH : substance/mixture is non-soluble (in water)

Melting point/ range : not determined

Boiling point/boiling range : Study technically not feasible.

Flash point : not applicable, the product is a solid

Flammability (solid, gas) : Will not burn

Upper explosion limit / Upper
flammability limit : not determinedLower explosion limit / Lower
flammability limit : not determined

Vapor pressure : not determined (50 °C)

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not determined (20 °C)

The product is a non-volatile solid.

Relative vapor density : The product is a non-volatile solid.

Density : 1.001 g/cm³ (20 °C)Solubility(ies)
Water solubility : not determinedPartition coefficient: n-
octanol/water : not applicable for mixtures

Autoignition temperature : > 200 °C

Decomposition temperature : The product is capable of self-sustaining progressive thermal decomposition.

Self-Accelerating
decomposition temperature
(SADT) : 50 °CViscosity
Viscosity, dynamic :
No data available

Viscosity, kinematic : not determined (40 °C)

not determined (23 °C)

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Flow time	:	> 670 s (23 °C) Cross section: 6 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics Particle size	:	No data available

10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Dust can form an explosive mixture in air.
Conditions to avoid	:	Heat. Avoid direct sunlight. Avoid impact, friction and electrostatic loading. Avoid dust formation.
Incompatible materials	:	Organic materials Oxidizing agents Reducing agents, heavy metal compounds, acids, alkalis,

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contamination.

Hazardous decomposition : Nitrogen oxides (NOx)
products Carbon oxides

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

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

Skin corrosion/irritation

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

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization**Skin sensitization**

May cause an allergic skin reaction.

Respiratory sensitization

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

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

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12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential**Components:****Benzoyl peroxide:**Partition coefficient: n-
octanol/water : log Pow: 3.2 (22 °C)

pH: 7

Method: OECD Test Guideline 117

GLP: yes

maleic acid dibutyl ester:Partition coefficient: n-
octanol/water : log Pow: 3.39 (25 °C)

pH: 7

Method: OECD Test Guideline 117

Mobility in soil

No data available

Other adverse effects

No data available

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13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues	:	Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product.

14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

UN number	:	UN 3108
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Environmentally hazardous	:	yes

IATA-DGR

UN/ID No.	:	UN 3108
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation

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Labels : Organic Peroxide, Keep Away From Heat

Packing instruction (cargo aircraft) : 570

Packing instruction (passenger aircraft) : 570

IMDG-Code

UN number : UN 3108

Proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
(DIBENZOYL PEROXIDE)

Class : 5.2

Packing group : Not assigned by regulation

Labels : 5.2

EmS Code : F-J, S-R

Marine pollutant : yes

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

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Hazardous Substance Act : Conditions of restriction for the

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following entries should be
considered:
dibenzoyl peroxide
(List 5.1, Number on list 173)

Emergency Decree on Controlling the Use of Volatile Substances : Not applicable

16. OTHER INFORMATION

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Further information

Other information : Restricted to professional users.
For multi-pack systems observe material safety data sheets of
all components.

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

TH OEL : Thailand. Occupational Exposure Limits

ACGIH / TWA : 8-hour, time-weighted average

TH OEL / TWA : Time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx -

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Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; 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 Organization 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; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

TH / EN