

# Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 22.03.2018

Version: 1.1

Product: **Divergan® HM**

(ID no. 30034975/SDS\_GEN\_00/EN)

Date of print 21.10.2025

## 1. Identification

### Product identifier

### Divergan® HM

Chemical name: based polymer of 2-imidazolidinone, 1,3-diéthényl-, 1-éthényl-1H-imidazole and 1-éthényl-2-pyrrolidinone

CAS Number: 87865-40-5

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

Relevant identified uses: food additive(s)

### Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Nutrition and Health

Telephone: +49 621 60-48434

E-mail address: EN-global-safety-data@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

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No need for classification according to GHS criteria for this product.

### Label elements

#### Globally Harmonized System (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

### Other hazards

#### According to UN GHS criteria

The product is under certain conditions capable of dust explosion. The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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## 3. Composition/Information on Ingredients

### Substances

#### Chemical nature

2-Imidazolidinone, 1,3-diethenyl-, polymer with 1-ethenyl-1H-imidazole and 1-ethenyl-2-pyrrolidinone

CAS Number: 87865-40-5

### Mixtures

Not applicable

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## 4. First-Aid Measures

### Description of first aid measures

| Remove contaminated clothing.

| If inhaled:

| Keep patient calm, remove to fresh air.

| On skin contact:

| Wash thoroughly with soap and water.

| On contact with eyes:

| Wash affected eyes for at least 15 minutes under running water with eyelids held open.

| On ingestion:

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| Rinse mouth and then drink plenty of water.

**Most important symptoms and effects, both acute and delayed**

Symptoms: No significant symptoms are expected due to the non-classification of the product.

**Indication of any immediate medical attention and special treatment needed**

| Treatment: Symptomatic treatment (decontamination, vital functions).

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**5. Fire-Fighting Measures****Extinguishing media**Suitable extinguishing media:  
water spray, foam, dry powderUnsuitable extinguishing media for safety reasons:  
water jet**Special hazards arising from the substance or mixture**

hydrogen cyanide; hydrocyanic acid, carbon oxides, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire. Evolution of fumes/fog.

**Advice for fire-fighters**Special protective equipment:  
Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.  
Cool endangered containers with water-spray.

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**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures**Use personal protective clothing. Information regarding personal protective measures see, section 8.  
Avoid dust formation.**Environmental precautions**

Do not discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Dispose of absorbed material in accordance with regulations. Avoid raising dust.

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## 7. Handling and Storage

### Precautions for safe handling

Avoid dust formation. Provide exhaust ventilation if dust is formed.

Protection against fire and explosion:

The product is capable of dust explosion. Avoid dust formation. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Use explosion-proof apparatus and fittings.

### Conditions for safe storage, including any incompatibilities

Suitable materials for containers: glass, High density polyethylene (HDPE), Low density polyethylene (LDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

### Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## 8. Exposure Controls/Personal Protection

### Control parameters

Components with occupational exposure limits

| 88-12-0: 1-vinyl-2-pyrrolidone

### Exposure controls

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:

Chemical resistant protective gloves (EN 374)

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

chemical protection overall (f.e. according to EN 13982) if dust is formed.

General safety and hygiene measures

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Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	powder
Colour:	cream, almost white
Odour:	faint specific odour
Odour threshold:	not determined
pH value:	insoluble
Melting point:	The substance / product decomposes therefore not determined.
Boiling point:	not applicable
Evaporation rate:	not applicable
Flammability:	not determined
Lower explosion limit:	For solids not relevant for classification and labelling.
Upper explosion limit:	For solids not relevant for classification and labelling.
Vapour pressure:	not applicable
Relative vapour density (air):	not applicable
Solubility in water:	insoluble
Solubility (qualitative) solvent(s):	organic solvents insoluble
Partitioning coefficient n-octanol/water (log Kow):	insoluble
Thermal decomposition:	>= 405 °C (DSC (DIN 51007)) It is not a self-decomposable substance.
Viscosity, dynamic:	not applicable, the product is a solid
Explosion hazard:	Product is not explosive, however a dust explosion could result from an air / dust mixture.

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Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

**Other information**

Self heating ability: No data available.

Bulk density: approx. 150 kg/m<sup>3</sup>  
Hygroscopy: slightly hygroscopic

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**10. Stability and Reactivity****Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

**Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

**Possibility of hazardous reactions**

Dust explosion hazard.

**Conditions to avoid**

Avoid dust formation. See MSDS section 7 - Handling and storage.

**Incompatible materials**

Substances to avoid:  
atmospheric moisture

**Hazardous decomposition products**

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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**11. Toxicological Information****Information on toxicological effects**Acute toxicity

Assessment of acute toxicity:  
Virtually nontoxic after a single ingestion.

Experimental/calculated data:  
LD50 rat (oral): > 2.000 mg/kg (OECD Guideline 423)

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Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing. (OECD Guideline 429)

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria.

Carcinogenicity

Assessment of carcinogenicity:

Not classified, due to lack of data.

Reproductive toxicity

Assessment of reproduction toxicity:

Not classified, due to lack of data.

Developmental toxicity

Assessment of teratogenicity:

Not classified, due to lack of data.

Specific target organ toxicity (single exposure)

Remarks: No data available.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals.

Aspiration hazard

No data available.

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## 12. Ecological Information

### Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) > 10.000 mg/l, Brachydanio rerio (OECD Guideline 203, static)

The details of the toxic effect relate to the nominal concentration.

Microorganisms/Effect on activated sludge:

EC10 (16 h) 786 mg/l, Pseudomonas putida (DIN EN ISO 10712, aquatic)

The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An eluate has been tested.

EC20 (30 min) > 1.000 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

### Persistence and degradability

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria). Poorly biodegradable.

Elimination information:

0 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic)

### Bioaccumulative potential

Bioaccumulation potential:

Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected. The product has not been tested. The statement has been derived from the structure of the product.

### Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

### Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

### Other adverse effects



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The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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## 13. Disposal Considerations

### Waste treatment methods

Observe national and local legal requirements.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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## 14. Transport Information

### Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Inland waterway transport

ADN

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable

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Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

**Sea transport**

## IMDG

Not classified as a dangerous good under transport regulations  
UN number: Not applicable  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

**Air transport**

## IATA/ICAO

Not classified as a dangerous good under transport regulations  
UN number: Not applicable  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

**Transport in bulk according to Annex II of MARPOL and the IBC Code**

Regulation: Not evaluated  
Shipment approved: Not evaluated  
Pollution name: Not evaluated  
Pollution category: Not evaluated  
Ship Type: Not evaluated

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## 15. Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

## 16. Other Information

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.