

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

1.1 Product identifier

Mirapont A
Article number: 203008, 203010, 203011

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

1.2.1 Relevant uses

Special plastic for stumps and models

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Hager & Werken GmbH & Co. KG
Ackerstr. 1
47269 Duisburg / GERMANY
Phone +49(0)203-99269-0
Fax +49 (0)203 29 92 83
Homepage www.hagerwerken.de
E-mail info@hagerwerken.de

Address enquiries to

Technical information

info@hagerwerken.de

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body

+49 (0) 551-19240 Giftinformationszentrum-Nord

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Eye Irrit. 2: H319 Causes serious eye irritation.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

WARNING

Hazard statements

H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear eye 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.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

Environmental hazards

Does not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
5 - <10	Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics GHS/CLP: Asp. Tox. 1: H304 - EUH066
5 - <10	Ethylenediamine, propoxylated CAS: 25214-63-5 GHS/CLP: Eye Irrit. 2: H319
5 - <10	Bis(isopropyl)naphthalene CAS: 38640-62-9 GHS/CLP: Asp. Tox. 1: H304 - Aquatic Chronic 1: H410
1 - <2,5	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics GHS/CLP: Asp. Tox. 1: H304 - EUH066
1 - <2,5	Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propyldyntrimethanol GHS/CLP: Repr. 2: H361d - Eye Irrit. 2: H319

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Change soaked clothing.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	Seek medical advice immediately. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide. Water spray jet. Dry powder. Foam.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted hydrocarbons

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Keep container tightly closed.
Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
Long-term exposure: 1200 mg/m ³
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
Long-term exposure: 1200 mg/m ³ , RCP-TWA, 171 ppm (Manufacturer)

DNEL

Substance
Bis(isopropyl)naphthalene, CAS: 38640-62-9
Industrial, dermal, Long-term - systemic effects, 2,38 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 8,4 mg/m ³
general population, oral, Long-term - systemic effects, 850 µg/kg bw/day
general population, dermal, Long-term - systemic effects, 850 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1,48 mg/m ³
Ethylenediamine, propoxylated, CAS: 25214-63-5
Industrial, inhalative, Long-term - systemic effects, 98 mg/m ³
Industrial, dermal, Long-term - systemic effects, 13,9 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 29 mg/m ³
general population, oral, Long-term - systemic effects, 8,3 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 8,3 mg/kg bw/d
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
There are no DNEL values established for the substance.
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
There are no DNEL values established for the substance.
Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol
Industrial, dermal, Long-term - systemic effects, 4,2 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 14,6 mg/m ³
general population, dermal, Long-term - systemic effects, 2,5 mg/kg bw/day
general population, oral, Long-term - systemic effects, 2,5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 4,4 mg/m ³

PNEC

Substance
Bis(isopropyl)naphthalene, CAS: 38640-62-9
soil, 171 µg/kg soil dw
sediment (seawater), 85,3 µg/kg sediment dw
sediment (freshwater), 853 µg/kg sediment dw
sewage treatment plants (STP), 150 µg/L
seawater, 23,6 ng/L
freshwater, 236 ng/L
Ethylenediamine, propoxylated, CAS: 25214-63-5
freshwater, 0,0085 mg/l
freshwater, 0,085 mg/l

sewage treatment plants (STP), 70 mg/l
soil, 0,0162 mg/kg dw
sediment (seawater), 0,0074 mg/kg dw
sediment (freshwater), 0,074 mg/kg dw
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
There are no PNEC values established for the substance.
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
There are no PNEC values established for the substance.
Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol
sewage treatment plants (STP), 100 mg/L
seawater, 74.3 µg/L
freshwater, 743 µg/L

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Not required under normal conditions.
Other	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	not determined

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	various
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	>110
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	0,06
Density [g/cm ³]	1,58
Relative density	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	immiscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	>20,5 mm ² /s
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	not determined
Decomposition temperature [°C]	not applicable
Particle characteristics	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

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

Substance
Bis(isopropyl)naphthalene, CAS: 38640-62-9
LD50, oral, Rat, 4130 - 4320 mg/kg bw
Ethylenediamine, propoxylated, CAS: 25214-63-5
LD50, oral, Rat, > 2000 mg/kg bw
NOAEL, oral, Rat, 1000 mg/kg bw/4w
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
LD50, oral, Rat, 5000 - 15000 mg/kg bw
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
LD50, oral, Rat, > 5000 mg/kg (OECD 401)
Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol
LC50, oral, Rat, 2000 mg/kg bw

Acute dermal toxicity

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

Substance
Bis(isopropyl)naphthalene, CAS: 38640-62-9
LD50, dermal, Rat, 4500 mg/kg bw
Ethylenediamine, propoxylated, CAS: 25214-63-5
LD50, dermal, Rat, > 2000 mg/kg bw
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
LD50, dermal, Rabbit, 2200 - 2500 mg/kg bw
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
LD50, dermal, Rabbit, > 5000 mg/kg (OECD 402)
Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol
LD50, dermal, Rabbit, 10000 mg/kg bw

Acute inhalational toxicity

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

Substance
Bis(isopropyl)naphthalene, CAS: 38640-62-9
LC50, oral, Rat, 5,64 mg/L, 4h
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
LC50, inhalative, Rat, 4.951 - 9.3 mg/L air, 4h
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
LC50, inhalative, Rat, 5,9 - 6,1 mg/L/4h

Serious eye damage/irritation

Irritant

Substance
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
Rabbit, in vivo, OECD 405, non-irritating
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
Rabbit, OECD 405, non-irritating

Skin corrosion/irritation

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

Substance

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
Rabbit, in vivo, OECD 404, non-irritating
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Substance
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
dermal, Guinea pig, OECD 406, non-sensitizing
inhalative, non-sensitizing
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
Guinea pig, OECD 406, non-sensitizing

Specific target organ toxicity — single exposure Based on available data, the classification criteria are not met.

Substance
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
no adverse effect observed
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
inhalative, no adverse effect observed

Specific target organ toxicity — repeated exposure Based on available data, the classification criteria are not met.

Substance
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
OECD 413, no adverse effect observed
OECD 408, no adverse effect observed
NOAEL, oral, Rat, 1000 mg/kg bw/day
NOAEC, inhalative, Rat, 10.4 mg/L air

Mutagenicity Does not contain a relevant substance that meets the classification criteria.

Substance
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
OECD 479, no adverse effect observed
OECD 478, no adverse effect observed
OECD 476, no adverse effect observed
OECD 474, no adverse effect observed
OECD 473, no adverse effect observed
OECD 471, no adverse effect observed
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
mouse, in vivo mammalian somatic cell study, OECD 474, negativ
in vitro gene mutation study in bacteria, OECD 471, negativ

Reproduction toxicity This product contains one or more substances of categorie Repr. 2 (CLP).

Substance
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
OECD 415, no adverse effect observed
OECD 414, no adverse effect observed

OECD 413, no adverse effect observed

Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed

NOAEC, inhalative, Rat, 5220 mg/m³ (Effect on developmental toxicity), no adverse effect observed

NOAEC, oral, Rat, 750 mg/kg bw/d (Effect on fertility), no adverse effect observed

Carcinogenicity

Does not contain a relevant substance that meets the classification criteria.

Substance

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

OECD 453, no adverse effect observed

Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics

no adverse effect observed

Aspiration hazard

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

General remarks

Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Bis(isopropyl)naphthalene, CAS: 38640-62-9
LC50, (96h), fish, 500 µg/L
EC50, (48h), Invertebrates, 160 µg/L
LC0, (96h), fish, 240 µg/L
NOEC, (72h), Algae, 150 µg/L
NOELR, (48h), Invertebrates, 1 mg/L
Ethylenediamine, propoxylated, CAS: 25214-63-5
LC50, (96h), Leuciscus idus, 4600 mg/l
EC50, (48h), Daphnia magna, > 100 mg/l
ErC50, (72h), Desmodesmus subspicatus, 150,67 mg/l
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
EL50, (72h), Algae, 1 mg/L
NOELR, (28d), fish, 217 µg/L
NOELR, (21d), Invertebrates, 1 mg/L
LL50, (96h), fish, 1 g/L
LL0, (96h), Invertebrates, 1 g/L
Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics
EL0, (72h), Pseudokirchneriella subcapitata, 1000 mg/l
EL0, (48h), Daphnia magna, 1000 mg/l
NOELR, (21d), Daphnia magna, 1 mg/l
NOELR, (72h), Pseudokirchneriella subcapitata, 1000 mg/l
LL0, (96h), Oncorhynchus mykiss, 1000 mg/l
Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol
LC50, (96h), fish, 1,25 g/L
EC50, (48h), Invertebrates, 1,09 g/L
EC50, (72h), Algae, 44 - 743 mg/L
NOEC, (96h), fish, 500 mg/L
NOEC, (48h), Invertebrates, 500 mg/L
NOEC, (72h), Algae, 2 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with national regulations.

Product

For recycling, consult manufacturer.

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID 3082

Inland navigation (ADN) 3082

Marine transport in accordance with IMDG 3082

Air transport in accordance with IATA 3082

14.2 UN proper shipping name

Transport by land according to ADR/RID Environmentally hazardous substance, liquid, n.o.s. (Bis(isopropyl)naphthalene)

- Classification Code

M6

- Label



- ADR LQ

5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (-)

Inland navigation (ADN)

Environmentally hazardous substance, liquid, n.o.s. (Bis(isopropyl)naphthalene)

- Classification Code

M6

- Label



Marine transport in accordance with IMDG

Environmentally hazardous substance, liquid, n.o.s. (Bis(isopropyl)naphthalene)

- EMS

F-A, S-F

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA

Environmentally hazardous substance, liquid, n.o.s. (Bis(isopropyl)naphthalene)

- Label



14.3 Transport hazard class(es)

Transport by land according to ADR/RID 9 (N)

Inland navigation (ADN) 9 (N)

Marine transport in accordance with IMDG 9

Air transport in accordance with IATA 9

14.4 Packing group

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III

14.5 Environmental hazards

Transport by land according to ADR/RID yes

Inland navigation (ADN) yes

Marine transport in accordance with IMDG MARINE POLLUTANT

Air transport in accordance with IATA yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (2010/75/CE) 7,79 %

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®/STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.2 Other information

Classification procedure

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none

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