

NHL THERMO

Version number: GHS 4.0
Replaces version of: 01.07.2024 (GHS 3)

Revision:
01.07.2024

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

1.1 Product identifier

| | |
|--|---|
| Trade name | NHL THERMO |
| Registration number (REACH) | not relevant (mixture) |
| Unique formula identifier (UFI) | UFI: YMGM-3KRD-5S28-50SV as indicated on the label / delivery note |

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

| | |
|---------------------------------|--|
| Relevant identified uses | Mortar Observe technical data sheet |
| Uses advised against | Observe technical data sheet |

1.3 Details of the supplier of the safety data sheet

Baumit GmbH
Wopfing 156
A-2754 Waldegg
Austria

Telephone: +43 (0)501 888 0

This number is only available during office hours:

Mon - Thu 07:00 - 17:00

Fri 07:00 - 12:00

e-mail: office@baumit.com

1.4 Emergency telephone number

| Poison centre | | | |
|---------------|---|------------------|---------------------|
| Country | Name | Postal code/city | Telephone |
| Austria | Vergiftungsinformationszentrale an der 1. Medizinischen Universitätsklinik 24h Notruf Mo-So | 1090 Wien | +43 (0)1 4064 343-0 |

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class | Cat-egory | Hazard class and category | Hazard statement |
|---------|---|-----------|---------------------------|------------------|
| 3.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.3 | serious eye damage/eye irritation | 1 | Eye Dam. 1 | H318 |
| 3.8R | specific target organ toxicity - single exposure (respiratory tract irritation) | 3 | STOT SE 3 | H335 |

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- **Signal word:** danger

- **Pictograms:**

GHS05, GHS07



- **Hazard statements:**

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

- **Precautionary statements:**

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P260 Do not breathe dust.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of 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.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazardous ingredients for labelling:** Natural hydraulic lime, NHL, calcium dihydroxide, Calcium oxide

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|-----------------------------|---|-----------|---|---|
| Natural hydraulic lime, NHL | CAS No 85117-09-5 EC No 285-561-1 REACH Reg. No 01-2119475523-36-xxxx | 50 - < 75 | Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 |   |
| calcium dihydroxide | CAS No 1305-62-0 EC No 215-137-3 REACH Reg. No 01-2119475151-45-xxxx 01-2119862018-38-xxxx | 10 - < 20 | Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 |   |
| Calcium oxide | CAS No 1305-78-8 EC No 215-138-9 REACH Reg. No 01-2119475325-36-xxxx 01-2119666323-39-xxxx 01-2119862019-36-xxxx 01-2119976279-19-xxxx 01-2120034600-72-xxxx | 5 - < 10 | Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 |   |

Remarks

For full text of abbreviations: see SECTION 16

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SECTION 4: First aid measures

4.1 Description of first aid measures

- General notes

Avoid contact with skin and eyes.

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Avoid breathing dust. Prevent skin contact.

In all cases of doubt, or when symptoms persist, seek medical advice.

- Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air. In case of respiratory tract irritation, consult a physician.

- Following skin contact

Rinse skin with water/shower.

In all cases of doubt, or when symptoms persist, seek medical advice.

- Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical advice immediately.

- Following ingestion

Rinse mouth with water (only if the person is conscious).

Do NOT induce vomiting.

Call a POISON CENTER.

4.2 Most important symptoms and effects, both acute and delayed

Risk of serious damage to eyes.

Extended inhalation at levels above the occupational exposure limit values can cause irreversible damage to the lungs.

4.3 Indication of any immediate medical attention and special treatment needed

There is no additional information.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media

Water. Foam. ABC-powder. Non-combustible.

- Unsuitable extinguishing media

Water jet. Not relevant.

5.2 Special hazards arising from the substance or mixture

Not dust explosion capable.

Non-combustible.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel

Remove persons to safety.

- For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water (PH (value))

Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

- Advice on how to contain a spill

Covering of drains. Take up mechanically. Collect spillage.

Use appropriate container to avoid environmental contamination.

Wet clean or vacuum up solids.

Don't use a brush or compressed air for cleaning surfaces or clothing.

- Advice on how to clean up a spill

Take up mechanically.

- Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13. Section 7.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Recommendations

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment. Non-combustible.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

- Handling of incompatible substances or mixtures

Do not mix with acids.

- Advice on general occupational hygiene

Wash hands after use.

Do not eat, drink and smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Never keep food or drink in the vicinity of chemicals.

Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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7.2 Conditions for safe storage, including any incompatibilities

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.
Removal of dust deposits.

7.3 Specific end use(s)

See section 16 for a general overview.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|---|-------------------------------------|-----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|-------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| AT | biologically inert suspended solids | | MAK | | 10 | | 20 (60 min) | | | i | GKV |
| AT | biologically inert suspended solids | | MAK | | 5 | | 10 (60 min) | | | r | GKV |
| AT | calcium dihydroxide | 1305-62-0 | MAK | | 1 | | | | 4 (5 min) | i | GKV |
| AT | calcium oxide | 1305-78-8 | MAK | | 1 | | | | 4 (5 min) | i | GKV |
| EU | calcium dihydroxide | 1305-62-0 | IOELV | | 1 | | 4 | | | r | 2017/164/EU |
| EU | calcium oxide | 1305-78-8 | IOELV | | 1 | | 4 | | | r | 2017/164/EU |

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

i inhalable fraction

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours
time-weighted average (unless otherwise specified)

| Relevant DNELs of components | | | | | | |
|-------------------------------------|-----------|----------|---------------------|------------------------------------|-------------------|-------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| calcium dihydroxide | 1305-62-0 | DNEL | 1 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| calcium dihydroxide | 1305-62-0 | DNEL | 4 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| Calcium oxide | 1305-78-8 | DNEL | 1 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| Calcium oxide | 1305-78-8 | DNEL | 4 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |

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| Relevant PNECs of components | | | | | | |
|------------------------------|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| calcium dihydroxide | 1305-62-0 | PNEC | 0,49 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| calcium dihydroxide | 1305-62-0 | PNEC | 0,32 mg/l | aquatic organisms | marine water | short-term (single instance) |
| calcium dihydroxide | 1305-62-0 | PNEC | 3 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| calcium dihydroxide | 1305-62-0 | PNEC | 1.080 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Calcium oxide | 1305-78-8 | PNEC | 0,37 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Calcium oxide | 1305-78-8 | PNEC | 0,24 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Calcium oxide | 1305-78-8 | PNEC | 2,27 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Calcium oxide | 1305-78-8 | PNEC | 817,4 mg/kg | terrestrial organisms | soil | short-term (single instance) |

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8.2 Exposure controls

- **Appropriate engineering controls**

Use local and general ventilation

- **Individual protection measures (personal protective equipment)**



Wear eye/face protection



Wear protective gloves

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.



Safety footwear



Wear respiratory protection

Filtering half mask (EN 149)

- **Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | solid (powder) |
| Form | powder |
| Colour | white |
| Odour | odourless |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | not determined |
| Flammability | non-combustible |
| Lower and upper explosion limit | not relevant (solid) |
| Flash point | not applicable |
| Auto-ignition temperature | >400 °C |
| Decomposition temperature | not relevant |
| pH (value) | 12 – 13 (in aqueous solution: 80 % (w/w), 20 °C) (base) |
| Kinematic viscosity | not relevant |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|--|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|--|-----------------------------------|

| | |
|------------------------|----------------|
| Vapour pressure | not determined |
|------------------------|----------------|

Density and/or relative density

| | |
|--------------------------------|----------------------|
| Density | not determined |
| Relative vapour density | not relevant (solid) |

| | |
|---------------------------------|-------------------|
| Particle characteristics | no data available |
|---------------------------------|-------------------|

9.2 Other information

| | |
|---|--|
| 9.2.1 Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards): not relevant |
|---|--|

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9.2.2 Other safety characteristics

| | |
|-----------------------|---------|
| Liquid content | 0 % |
| Solid content | 99,88 % |

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The product develops an alkaline pH value with moisture and can cause irritation.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Protect from moisture.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

- Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

- Classification according to GHS (1272/2008/EC, CLP)

- Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed, in contact with skin or if inhaled.

- Skin corrosion/irritation

Causes skin irritation.

- Serious eye damage/eye irritation

Causes serious eye damage.

- Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

- Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

- Carcinogenicity

Shall not be classified as carcinogenic.

- Reproductive toxicity

Shall not be classified as a reproductive toxicant.

- Specific target organ toxicity - single exposure

May cause respiratory irritation.

- Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

- Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

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SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Wet clean or vacuum up solids.

- Waste codes/waste designations according to LoW:

10 13 14: Waste concrete and concrete sludge

17 01 01: Concrete

15 01 10*: Packaging containing residues of or contaminated by hazardous substances.

*Hazardous waste

- Key number according to national waste list directive (ÖNORM S2100):

31607: Schlamm aus Fertigmörtelherstellung (verfestigt)

- Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

- Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

- Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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SECTION 14: Transport information

- | | |
|---|--|
| 14.1 UN number or ID number | not assigned |
| 14.2 UN proper shipping name | not assigned |
| 14.3 Transport hazard class(es) | none |
| 14.4 Packing group | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user | Provisions for dangerous goods (ADR) should be complied within the premises. |
| 14.7 Maritime transport in bulk according to IMO instruments | The cargo is not intended to be carried in bulk. |

Information for each of the UN Model Regulations

- Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Not assigned.

- International Maritime Dangerous Goods Code (IMDG) - Additional information

Not assigned.

- International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not assigned.

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SECTION 15: Regulatory information

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

- Relevant provisions of the European Union (EU)

- List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

- Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed.

- Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

| Name of substance | Wt% |
|-----------------------------|-------|
| calcium dihydroxide | 15 |
| Calcium oxide | 5,72 |
| Natural hydraulic lime, NHL | 54,06 |

- Regulation on the marketing and use of explosives precursors

Not relevant.

- Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

- National regulations (Austria)

- Ordinance on combustible liquids (VbF) not applicable (physical state: not liquid)

- National inventories

| Country | Inventory | Status |
|---------|------------|--------------------------------|
| EU | REACH Reg. | not all ingredients are listed |

Legend

REACH Reg. REACH registered substances

15.2 Chemical safety assessment

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

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SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|--|-----------------|
| 13.1 | - Waste codes/waste designations according to LoW: 10 13 14: Waste concrete and concrete sludge 17 01 01: Concrete | - Waste codes/waste designations according to LoW: 10 13 14: Waste concrete and concrete sludge 17 01 01: Concrete 15 01 10*: Packaging containing residues of or contaminated by hazardous substances. *Hazardous waste | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-------------|---|
| 2017/164/EU | Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| ED | Endocrine disruptor |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |

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| Abbr. | Descriptions of used abbreviations |
|-------------|---|
| GKV | Grenzwerteverordnung |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| IOELV | Indicative occupational exposure limit value |
| LoW | List of Wastes |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| STEL | Short-term exposure limit |
| STOT SE | Specific target organ toxicity - single exposure |
| SVHC | Substance of Very High Concern |
| TWA | Time-weighted average |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|-----------------------------------|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |

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according to Regulation (EC) No. 1907/2006 (REACH)



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Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

End of safety data sheet.