

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DYHARD® MCA40

Version 1.2 / REG_EU
Revision Date: 28.02.2018

Specification: 201606
Material no.:

Date of first issue: 12.12.2017
Print Date: 08.08.2018

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

1.1 Product identifier

Trade name : DYHARD® MCA40
Registration number : if available listed in Chapter. 3

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

Use of the Sub-
stance/Mixture : Raw material for the industrial manufacturing of coating materials, adhesives, sealing agents, and composite materials

1.3 Details of the supplier of the safety data sheet

Company : AlzChem Trostberg GmbH
Dr.-Albert-Frank-Str. 32
83308 Trostberg, Germany
Telephone : +49 8621 86-3351
E-mail address of person
responsible for the SDS : alz-pst@alzchem.com

1.4 Emergency telephone number

Emergency telephone number : +49 8621 86-2776
AlzChem Trostberg GmbH, Fire Brigade

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1C H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1 H318: Causes serious eye damage.
Carcinogenicity, Category 2 H351: Suspected of causing cancer.
Reproductive toxicity, Category 1B H360D: May damage the unborn child.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H351 Suspected of causing cancer.
H360D May damage the unborn child.

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Precautionary statements : **Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:
P405 Store locked up.

2.3 Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out
If dusts develop, explosive dust/air mixtures may form.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-methylimidazole	693-98-1 211-765-7 01-2119980041-46-0000	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Carc. 2; H351 Repr. 1B; H360D	15 - 25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Seek medical advice in case of symptoms caused by eye or skin contact, inhalation or swallowing.
Remove contaminated or soaked clothing immediately and dispose of safely.

If inhaled : Bring affected person outside and ensure that he/she is comfortable.
In case of massive exposure:
Early application of cortisone spray.

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- Obtain medical attention.
- In case of skin contact : Wash off with plenty of water and soap immediately. Call a physician immediately.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Remove contact lenses if this can be easily done. Immediate further treatment in ophthalmic hospital/ ophthalmologist.
- If swallowed : Flush mouth immediately, then drink plenty of water. Do NOT induce vomiting. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : To the best of our knowledge, experiences about acute systemic health effects in human beings are not available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray, foam, CO₂, dry powder.
- Unsuitable extinguishing media : high volume water jet

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)
Hydrocyanic acid (HCN)
Ammonia

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Wear personal protective equipment; see section 8. Ensure adequate ventilation.

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6.2 Environmental precautions

Environmental precautions : Product or extinguishing water with product must not be allowed to enter soil, sewers or natural bodies of water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Assure sufficient ventilation.
Sweep up and shovel.
Avoid dust formation.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Provide appropriate exhaust ventilation at machinery. Observe the rules usually applicable when handling chemicals.
In case of dust being formed, provide for adequate extraction.
- Advice on protection against fire and explosion : Avoid formation of air-dust mixtures and keep away from ignition sources (sparks, flames, open flame) to prevent dust explosions. Take measures to prevent the build up of electrostatic charge.
- Hygiene measures : Do not breathe vapours/dust. Avoid contact with skin, eyes and clothing. Take off clothing and shoes contaminated with product. Clean before reuse. Do not eat, drink or smoke while working. Wash hands, and/or face before breaks and when workday is finished. Keep away from food, drink and animal feedingstuffs.
- Dust explosion class : St2

7.2 Conditions for safe storage, including any incompatibilities

- Further information on storage conditions : Keep tightly closed. Keep in a dry place. Protect from the action of light. Store under lock and key or in a way that only skilled persons have access to it.
- Advice on common storage : Avoid contact with acids.
- Storage class (TRGS 510) : 6.1C, Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects
- Packaging material : Suitable material: polyethylene, Stainless steel

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7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Personal protective equipment

- Eye protection : Safety glasses
- Hand protection
- Material : Nitrile rubber, Recommendation: Dermatril 740
 - Break through time : 480 min
 - Glove thickness : 0,11 mm
 - Directive : DIN EN 374
 - Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany
- Material : Nitrile rubber, Recommendation: Camatril 730
- Break through time : 480 min
 - Glove thickness : 0,4 mm
 - Directive : DIN EN 374
 - Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany
- Skin and body protection : Protective clothing
If intensive contact with the hazardous material cannot be avoided with certainty, order (depending on the hazard involved) additional protective measures for example chemical protective suit.
DuPont™ Tyvek® Classic Xpert (white)
- Respiratory protection : Do not inhale gases, vapours, aerosols or dust - use respiratory protection equipment.
Dust protection mask in accordance with EN 149 FFP2

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : powder
- Colour : white to slight beige
- Odour : slightly like amines
- Flammability (solid, gas) : BZ 1 - does not ignite., This information is derived from evaluation of or a test result for a similar compound (conclusion based on analogy).
- Relative density : 1,2 (20 °C)
- Solubility(ies)
- Water solubility : 50 g/l

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Decomposition temperature : No decomposition in the field of application.
Explosive properties : Explosive as defined by EU hazardous substances law.

9.2 Other information

Dust explosion class : St2

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazardous reactions are known if properly handled and stored.

10.4 Conditions to avoid

Conditions to avoid : Pronounced heat up.

10.5 Incompatible materials

Materials to avoid : Acids

10.6 Hazardous decomposition products

see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Assessment: Based on available data, the classification criteria are not met.

Components:

2-methylimidazole:

Acute oral toxicity : LD50 (Rat): 1500 mg/kg
Method: OECD Test Guideline 401
Remarks: IUCLID

Acute inhalation toxicity : LC0 (Rat): 0,09 mg/l
Exposure time: 8 h
Method: OECD Test Guideline 403
Remarks: (the maximum dose attainable under experimental conditions), no fatalities

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IUCLID

Acute dermal toxicity : LD50 (Rat): > 2000 mg/kg
Remarks: Literature, IUCLID

Skin corrosion/irritation

Product:

Assessment: Causes severe burns.

Components:

2-methylimidazole:

Assessment: Causes severe skin burns and eye damage.

Method: OECD Guide-line 404

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Remarks: IUCLID

Serious eye damage/eye irritation

Product:

Assessment: Causes serious eye damage.

Components:

2-methylimidazole:

Assessment: Causes serious eye damage.

Method: OECD Guide-line 405

Result: corrosive

Remarks: IUCLID

Respiratory or skin sensitisation

Product:

Remarks: not sensitizing

Components:

2-methylimidazole:

Test Type: Local Lymphnode Assay

Method: analogy OECD-method

Result: not sensitizing

Remarks: IUCLID

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Result: no evidence of mutagenic effects

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Components:

2-methylimidazole:

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Carcinogenicity

Product:

Carcinogenicity - Assessment : Suspected of causing cancer.

Components:

2-methylimidazole:

Carcinogenicity - Assessment : Suspect cancer hazard (Carc. 2).

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : May damage the unborn child.

Components:

2-methylimidazole:

Reproductive toxicity - Assessment : Animal model trials have produced no evidence of fertility damage.
Reproductive toxicity Category 1B

STOT - single exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:

2-methylimidazole:

Assessment: Based on available data, the classification criteria are not met.
Remarks: IUCLID

STOT - repeated exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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Components:

2-methylimidazole:

Assessment: Based on available data, the classification criteria are not met.
Remarks: IUCLID

Aspiration toxicity

Product:

No aspiration toxicity classification

Components:

2-methylimidazole:

No aspiration toxicity classification
Remarks: IUCLID

Further information

Product:

Remarks: No tests were performed with this mixture.
No additional toxicological data are available.

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-methylimidazole:

- | | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Leuciscus idus): 190 mg/l
Exposure time: 96 h
Method: DIN 38412 Teil 15
Remarks: IUCLID |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 225 mg/l
Exposure time: 48 h
Method: OECD 202
Remarks: IUCLID |
| Toxicity to algae | : | ErC50 (Desmodesmus subspicatus (green algae)): 256 mg/l
Exposure time: 72 h
Method: DIN 38412, T.9
Remarks: IUCLID |
| Toxicity to microorganisms | : | EC50 : 460 mg/l
End point: Growth inhibition
Exposure time: 17 h
Method: DEV, DIN 38412, T. 8
Remarks: IUCLID |

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12.2 Persistence and degradability

Components:

2-methylimidazole:

Biodegradability : Result: not biodegradable
Remarks: IUCLID

12.3 Bioaccumulative potential

Components:

2-methylimidazole:

Partition coefficient: n-octanol/water : log Pow: 0,24 (25 °C)

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6 Other adverse effects

Product:

Additional ecological information : No ecotoxicological studies with the product available. Properly treated effluents containing low concentrations of the product are not expected to inhibit the activated sludge in a sewage plant. Prevent penetration into soil, stretches of water and drainage systems.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations.

Contaminated packaging : Packaging, that can not be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

SECTION 14: Transport information

14.1 UN number

ADR : UN 3259

RID : UN 3259

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IMDG : UN 3259

IATA : UN 3259

14.2 UN proper shipping name

ADR : AMINES, SOLID, CORROSIVE, N.O.S.
(2-methylimidazole)

RID : AMINES, SOLID, CORROSIVE, N.O.S.
(2-methylimidazole)

IMDG : AMINES, SOLID, CORROSIVE, N.O.S.
(2-methylimidazole)

IATA : Amines, solid, corrosive, n.o.s.
(2-methylimidazole)

14.3 Transport hazard class(es)

ADR : 8

RID : 8

IMDG : 8

IATA : 8

14.4 Packing group

ADR
Packing group : III
Classification Code : C8
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

RID
Packing group : III
Classification Code : C8
Hazard Identification Number : 80
Labels : 8

IMDG
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Remarks : Keep separate from acids., IMDG Code segregation group 18
- Alkalis

IATA (Cargo)
Packing instruction (cargo aircraft) : 864
Packing instruction (LQ) : Y845
Packing group : III
Labels : Corrosives
Remarks : ERG-Code 8L

IATA (Passenger)
Packing instruction (passen- : 860

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ger aircraft)
Packing instruction (LQ) : Y845
Packing group : III
Labels : Corrosives
Remarks : ERG-Code 8L

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment

No substance safety assessment is required for this product.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H314 : Causes severe skin burns and eye damage.
H318 : Causes serious eye damage.
H351 : Suspected of causing cancer.
H360D : May damage the unborn child.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Carc. : Carcinogenicity
Eye Dam. : Serious eye damage
Repr. : Reproductive toxicity
Skin Corr. : Skin corrosion

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -

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Concentration associated with x% growth rate response; 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 Organisation 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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.

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