



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 5/30/2017

Version: 2

Language: en-US

Date of print: 12/13/2017

IH-Card ABD

Material number 186024

Page: 1 of 8

1. Product and company identification

Product identifier

Trade name: IH-Card ABD

This safety data sheet pertains to the following products:

813 181 100, 813 182 100, 813 180 100 IH-Card ABD(DVI-)-Conf
813 191 100, 813 192 100, 813 190 100 IH-Card ABD(DVI+)-Conf
813 421 100, 813 422 100, 813 420 100 IH-Card Anti-IgG
813 411 100, 813 412 100, 813 410 100 IH-Card Anti-IgG,-C3d
813 111 100, 813 112 100, 813 110 100 IH-Card ABO/D(DVI-)+RevA1,B
813 121 100, 813 122 100, 813 120 100 IH-Card ABO/D(DVI+)+RevA1,B
813 170 100 IH-Card Group ABO
813 201 100, 813 202 100, 813 200 100 IH-Card Rh-Phenotype+K
813 291 100, 813 292 100, 813 290 100 IH-Card RhD(DVI-)+Phenotype
813 211 100, 813 212 100, 813 210 100 IH-Card Anti-C
813 221 100, 813 222 100, 813 220 100 IH-Card Anti-E
813 231 100, 813 232 100, 813 230 100 IH-Card Anti-c
813 241 100, 813 242 100, 813 240 100 IH-Card Anti-e
813 251 100, 813 252 100, 813 250 100 IH-Card Anti-D(DVI+)
813 261 100, 813 262 100, 813 260 100 IH-Card Anti-D(DVI-)
813 271 100, 813 272 100, 813 270 100 IH-Card Anti-C-E-K
813 281 100, 813 282 100, 813 280 100 IH-Card Anti-K
813 131 100, 813 132 100, 813 130 100 IH-Card ABO/RhD(DVI+)
813 600 100 IH-Card Control

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

General use: Use as laboratory reagent.
Only for industrial users.

Details of the supplier of the safety data sheet

Company name: Bio-Rad Medical Diagnostics GmbH
Street/POB-No.: Industriestr. 1
Postal Code, city: 63303 Dreieich
Germany
WWW: www.medizinische-diagnostik-dreieich.de
E-mail: contact.bmd@bio-rad.com
Telephone: +49 (0)6103-3130-0
Telefax: +49 (0)6103-3130-646
Dept. responsible for information: Produktmanagement Transfusion
Telephone: 06103 3130-611
Telefax: 06103 3130-724

Emergency phone number

GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240



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2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid
Form: gel
Color: various colors
Odor: No data available
Classification: This material is classified as not hazardous.

Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Aqueous solution of anorganic salts and organic compounds.
Product contains bovine material.

Additional information: Contains sodium azide < 0,1%

4. First aid measures

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.
Following skin contact: Remove residues with water. Change contaminated clothing. In case of skin reactions, consult a physician.
After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
After swallowing: Rinse mouth and drink large quantities of water. Seek medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

In case of inhalation: May be harmful if inhaled.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range: No data available
Auto-ignition temperature: No data available
Suitable extinguishing media: Water fog, dry chemical powder, foam, carbon dioxide.
Extinguishing media which must not be used for safety reasons: Full water jet



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Specific hazards arising from the chemical

Fires in the immediate vicinity may cause the development of dangerous vapors. In case of fire may be liberated: Nitrogen oxides (NO_x), Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus. Wear appropriate protective equipment.

Additional information:

Do not allow fire water to penetrate into surface or ground water. Cool exposed containers with water spray.

6. Accidental release measures

Personal precautions: Avoid contact with the substance. Provide adequate ventilation. Wear personal protection equipment. Do not breathe vapor or spray.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.

Methods for clean-up:

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Final cleaning.

7. Handling and storage

Handling

Advices on safe handling: Avoid contact with skin, eyes, and clothing. Do not breathe vapors. Wear appropriate protective equipment.

Keep all containers, equipment and working place clean. Provide adequate ventilation, and local exhaust as needed. Change contaminated clothing.

Storage

Requirements for storerooms and containers:

Keep only in the original container. Protect against heat /sun rays.

Hints on joint storage:

Do not store together with acids/alkalies and oxidation agents. Do not store together with food.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

| CAS No. | Designation | Type | Limit value |
|------------|--------------|----------------|--|
| 26628-22-8 | Sodium azide | ACGIH: Ceiling | 0.11 ppm (as Hydrazoic acid vapour) |
| | | ACGIH: Ceiling | 0.29 mg/m ³ (as Sodium azide) |
| | | NIOSH: Ceiling | 0.1 ppm |
| | | NIOSH: Ceiling | (as HN ₃ ; may be absorbed through the skin) 0.3 mg/m ³ (as NaN ₃ ; may be absorbed through the skin) |



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Engineering controls

Provide good ventilation and/or an exhaust system in the work area.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

| | |
|---------------------------------|---|
| Eye/face protection | Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010. |
| Skin protection | Wear suitable protective clothing. Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Observe glove manufacturer's instructions concerning penetrability and breakthrough time. |
| Respiratory protection: | Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. |
| General hygiene considerations: | Avoid contact with skin and eyes. Provide adequate ventilation. Change contaminated clothing. After work, wash hands and face. When using do not eat, drink or smoke. |

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|--|---|
| Appearance: | Physical state at 68 °F and 101.3 kPa: liquid Form: gel Color: various colors |
| Odor: | No data available |
| Odor threshold: | No data available |
| pH value: | No data available |
| Melting point/freezing point: | No data available |
| Initial boiling point and boiling range: | No data available |
| Flash point/flash point range: | No data available |
| Evaporation rate: | No data available |
| Flammability: | No data available |
| Explosion limits: | No data available |
| Vapor pressure: | No data available |
| Vapor density: | No data available |
| Density: | No data available |
| Solubility: | No data available |
| Partition coefficient: n-octanol/water: | No data available |
| Auto-ignition temperature: | No data available |
| Thermal decomposition: | No data available |
| Additional information: | No data available |

10. Stability and reactivity

| | |
|---------------------|--|
| Reactivity: | No data available |
| Chemical stability: | Stable under recommended storage conditions. |



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Possibility of hazardous reactions

None known.

Conditions to avoid: Protect against heat /sun rays.

Incompatible materials: Strong oxidizing agents, strong acids and alkalis.

Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

Toxicological effects: Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
May be harmful if inhaled.
Skin corrosion/irritation: Lack of data.
Serious eye damage/irritation: Lack of data.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Based on available data, the classification criteria are not met. product:
not carcinogenic. (according to IARC, ACGIH, NTP or OSHA)
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

Symptoms

In case of inhalation: May be harmful if inhaled.

12. Ecological information

Ecotoxicity

Further details: No data available

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.



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13. Disposal considerations

Product

Recommendation: Special waste. Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.
Non-contaminated packages may be recycled.

14. Transport information

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.



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15. Regulatory information

National regulations - U.S. Federal Regulations

| | |
|--|--|
| Product: | Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)) Not regulated DEA Essential Chemical Code Number Not regulated Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) Not regulated DEA Exempt Chemical Mixtures Code Number Not regulated CERCLA (Superfund) reportable quantity None Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Section 302 extremely hazardous substance - No Section 311 hazardous chemical - No |
| tris-(Hydroxymethyl)-aminomethane: | TSCA Inventory: listed TSCA HPVC: not listed TSCA: listed |
| Ethylenediaminetetraacetic acid, dipotassium salt dihydrate: | TSCA Inventory: not listed |
| Sodium azide: | TSCA Inventory: listed TSCA HPVC: not listed Other Environmental Laws: CERCLA: RQ 1000 lbs. RCRA Hazardous Wastes: Code P105 SARA Title III Section 302, EHS: TPQ 500 lbs. / RQ 1000 lbs. SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Current Intelligence Bulletin: 78-127 Occupational Health Guideline: 0560 |

National regulations - U.S. State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

National regulations - Canada

DSL: All ingredients are listed or need not be listed.
NDSL: Not listed

National regulations - Great Britain

Hazchem-Code: -



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16. Other information

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

| | |
|-----------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| | X |

Reason of change: General revision

Date of first version: 3/27/2015

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.