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Safety Data Sheet

Printing date 22.06.2020 Reviewed on 19.06.2020

1 Identification

- · Product identifier
- · Trade name: MUC-1 Ag. MoAb, CC, HP (6A4)
- · Catalog or product number: 22508250
- · Application of the substance / the mixture Intermediate
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories (Canada) Ltd.

2403 Guenette

Montreal, Quebec H4R 2E9

Canada

phone: 514-334-4372 fax: 514-334-0872

- · Information department: CSD Techsupport@bio-rad.com
- · Emergency telephone number: 514-334-4372

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with non-hazardous additions.
- · Listing of dangerous and non-hazardous components:

26628-22-8 sodium azide Acute Toxicity (Oral) - Category 2, H300 0.025-≤0.1% w/w

- * Actual concentration ranges are withheld as a trade secret.
- · Additional information

Contains added constituents of animal origin.

For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Generally the product does not irritate the skin.
- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

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· Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required
- Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Keep contaminated washing water and dispose of appropriately.

· Methods and material for containment and cleaning up:

Clean the affected area carefully; suitable cleaners are:

Disinfectant

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Refer to package insert for additional information regarding storage conditions.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

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· Control parameters

· Components with limit values that require monitoring at the workplace:

26628-22-8 sodium azide

EL (Canada (LSG) English) Ceiling: 0.29* mg/m³, 0.11** ppm

*sodium azide;**hydrazoic acid vapour

EV (Canada (LSG) English) Ceiling: 0.26 mg/m³, 0.1 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Synthetic gloves

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Safety glasses

· Danger of explosion:

· Body protection: Protective work clothing.

9 Physical and chemical properties

| Information on basic physical and General Information Appearance: | chemical properties |
|---|-----------------------------------|
| Form: | Liquid |
| Color: | Colorless |
| · Odor: | Odorless |
| · Odor threshold: | Not determined. |
| · pH-value at 20 °C: | 7.4 |
| · Change in condition Melting point/Melting range: Boiling point/Boiling range: | undetermined undetermined |
| · Flash point: | Not applicable Not determined. |
| · Flammability (solid, gaseous) | Not applicable. |
| · Decomposition temperature: | Not determined. |
| · Auto igniting: | Product is not selfigniting. |

Not determined.

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| · Explosion limits: | | |
| Lower: | Not determined. | |
| Upper: | Not determined. | |
| · Vapor pressure: | Not determined. | |
| · Density: | Not determined | |
| · Relative density | Not determined. | |
| · Vapor density | Not determined. | |
| · Evaporation rate | Not determined. | |
| · Solubility in / Miscibility with | | |
| Water: | Fully miscible | |
| · Partition coefficient (n-octanol/v | vater): Not determined. | |
| · Viscosity: | | |
| dynamic: | Not determined. | |
| kinematic: | Not determined. | |
| Solvent content: | | |
| Water: | 94.7 % | |
| Solids content: | 5.3 % | |
| · Other information | No further relevant information available. | |

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values for hazardous components per OSHA criteria:

26628-22-8 sodium azide

Oral LD50 (static) 27 mg/kg (Rat) 27 mg/kg (mouse)

- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritant effect.
- · Sensitization: No sensitizing effects known.

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· Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Dispose of waste in accordance to applicable national, regional, or local regulations.

Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- · UN-Number
- · DOT/TDG, ADR, ADN, IMDG, IATA Not Regulated
- · UN proper shipping name
- DOT/TDG, ADN, IMDG, IATA Not Regulated

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|---|--------------------------------|--------------------|
| · ADR | Not Regulated Not Regulated | |
| · Transport hazard class(es) | | |
| · DOT, ADR, ADN, IMDG, IATA · Class | Not Regulated | |
| · Packing group · DOT/TDG, ADR, IMDG, IATA | Not Regulated | |
| · Environmental hazards: · Marine pollutant: | No | |
| · Special precautions for user | Not applicable. | |
| · Transport in bulk according to Annex II of and the IBC Code | MARPOL73/78 Not applicable. | |
| · UN "Model Regulation": | Not Regulated | |

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA (Superfund Amendents and Reauthorization Act of 1986 USA)
- Section 302/304 (40CFR355.30 / 40CFR355.40):

None of the ingredients is listed.

· Section 313 (40CFR372.65):

None of the ingredients is listed.

| · TSCA (Toxic Substances Control Act): | | | | |
|--|-------------------------------|--------|--|--|
| 7732-18-5 | water | ACTIVE | | |
| 7647-14-5 | sodium chloride | ACTIVE | | |
| | , , , | ACTIVE | | |
| 26628-22-8 | sodium azide | ACTIVE | | |
| 7447-40-7 | <u>'</u> | ACTIVE | | |
| 7778-77-0 | potassium dihydrogenphosphate | ACTIVE | | |
| MAK (Cormon Maximum Warkhloop Concentration) | | | | |

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

- · National regulations
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

- · Date of preparation / last revision 22.06.2020 / -
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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