

Material Safety Data Sheet

Printing date 04/02/2010

Reviewed on 04/02/2010

1 Identification of substance:

- **Product details:**
- **Trade name:** MMRV IgG Calibrator L03
- **Catalog or product number:** 663-2403
- **Application of the substance / the preparation** *In-vitro laboratory reagent or component*
- **Manufacturer/Supplier:**
Bio-Rad Laboratories, Diagnostic Group
4000 Alfred Nobel Drive
Hercules, California 94547 1(510)724-7000
- **Information department:** Technical services, customer support.
- **Emergency information:**
1(800) 424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION, or ACCIDENT.

2 Composition/Information on components:

- **Chemical characterization:**
- **Additional information:**
Contains human sourced and/or potentially infectious components.
For the wording of the listed risk phrases refer to section 15.

· Chemical characterization

· Listing of dangerous and non-hazardous components:

	ProClin 300	C, Xn, N; R 20/21/22-34-43-51/53	0.1-1.0%
26628-22-8	sodium azide	T+, N; R 28-32-50/53	0.01-0.1%
532-32-1	sodium benzoate		0.01-0.1%
	Comprehensive Negative Serum (Human)		50-100%
	Mumps IgG Positive Serum (human)		
	Measles IgG Positive Serum (human)		
	Rubella IgG Positive Serum (human)		
	Vzv IgG Positive Serum (human)		

3 Hazards identification

- **Emergency overview:**
Irritant to skin.
Sensitizer by dermal contact.
Irritant to respiratory system and skin.
Xi Irritant
- **Routes of exposure:** Skin
- **Information pertaining to particular dangers for man and environment**
R 43 May cause sensitization by skin contact.
- **Classification system**
The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.

Material Safety Data Sheet

Printing date 04/02/2010

Reviewed on 04/02/2010

Trade name: MMRV IgG Calibrator L03

(Contd. of page 1)

4 First aid measures

- **After inhalation**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **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**
- **The following symptoms may occur:**
Headache
Allergic reactions

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Handle as potentially infectious.
- **Measures for environmental protection:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Disinfectant effective against agent of concern.
Dispose of the collected material according to regulations.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Keep receptacles tightly sealed.
No special measures required.
No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** According to product specification
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** None.

8 Exposure controls and personal protection

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

(Contd. on page 3)

DUS

Material Safety Data Sheet

Printing date 04/02/2010

Reviewed on 04/02/2010

Trade name: MMRV IgG Calibrator L03

(Contd. of page 2)

· Components with limit values that require monitoring at the workplace:**26628-22-8 sodium azide**

REL (United States)	Short-term value: C 0.3** mg/m ³ , C 0.1* ppm *as HN3 vapor; **as NaN3; Skin
TLV (United States)	Short-term value: C 0.29** mg/m ³ , C 0.11* ppm *as HN3 vapor **as NaN3

· Additional information: The lists that were valid during the creation were used as basis.**· Personal protective equipment****· General protective and hygienic measures**

Follow the usual biosafety practices for handling potentially infectious materials.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

· Breathing equipment: Not required.**· Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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.

Nitrile rubber, NBR

Neoprene gloves

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**· Body protection:**

Protective work clothing.

Apron

9 Physical and chemical properties:**· General Information**

Form:	Liquid
Color:	Amber colored
Odor:	Odorless

· Change in condition**Melting point/Melting range:** undetermined**Boiling point/Boiling range:** undetermined**· Flash point:** Not applicable**· Danger of explosion:** Product does not present an explosion hazard.**· Density:** Not determined**· Solubility in / Miscibility with Water:** Fully miscible

(Contd. on page 4)

DUS

Material Safety Data Sheet

Printing date 04/02/2010

Reviewed on 04/02/2010

Trade name: MMRV IgG Calibrator L03

(Contd. of page 3)

- pH-value at 20°C: 7-8

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Materials to be avoided:**

- **Dangerous reactions**

This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds of lead azide and copper azide.

- **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritant effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Target organs:** Skin.

12 Ecological information:

- **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.

13 Disposal considerations

- **Product:**

- **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

- **DOT regulations:**

- **Hazard class:** -

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

(Contd. on page 5)

DUS

Material Safety Data Sheet

Printing date 04/02/2010

Reviewed on 04/02/2010

Trade name: MMRV IgG Calibrator L03

(Contd. of page 4)

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

· **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulations

· **SARA (Superfund Amendments and Reauthorization Act of 1986 - USA)**

· **Section 302/304 (40CFR355.30 / 40CFR355.40):**

26628-22-8	sodium azide
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· **Section 313 (40CFR372.65):**

26628-22-8	sodium azide
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· **TSCA (Toxic Substances Control Act):**

7647-14-5	sodium chloride
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532-32-1	sodium benzoate
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26628-22-8	sodium azide
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7447-40-7	potassium chloride
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7778-77-0	potassium dihydrogenorthophosphate
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7782-85-6	Sodium phosphate, dibasic, heptahydrate
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· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

Substance is not listed.

· **NTP (National Toxicology Program)**

Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

· **Markings according to EU guidelines:**

Observe the general safety regulations when handling chemicals

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· **Code letter and hazard designation of product:**

Xi Irritant

· **Risk phrases:**

43 May cause sensitization by skin contact.

· **Safety phrases:**

24 Avoid contact with skin.

37 Wear suitable gloves.

56 Dispose of this material and its container at hazardous or special waste collection point

(Contd. on page 6)

DUS

Material Safety Data Sheet

Printing date 04/02/2010

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Trade name: MMRV IgG Calibrator L03

(Contd. of page 5)

· National regulations**· Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**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.

· Department issuing MSDS: 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

· * Data compared to the previous version altered.

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