



MATERIAL SAFETY DATA SHEET

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

- 1.1 Product identifier:
- Product name: **Antigen-Down Assay Diluent**
- Product no./Catalog #(s): 523, 629, 630, 631, 674
- Internal ID: AD4
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
- Identified uses: For research use only.
- 1.3 Details of the supplier of the safety data sheet:
- Supplier: ImmunoChemistry Technologies, LLC
9401 James Avenue South, Suite #155
Bloomington, MN 55431-2500 USA
www.immunochemistry.com
1-800-829-3194 and 952-888-8788
Fax 952-888-8988
help@immunochemistry.com
- Contact person: Sally Hed
- 1.4 Emergency telephone number:
1-800-829-3194 / 952-888-8788 (Hours: 9 am-5 pm central standard time, Monday-Friday)

Section 2: Hazards identification

- 2.1 Classification of the substance or mixture:
- Classification (EC 1272/2008)
- Physical and chemical hazards: Not classified.
- Human health: Skin sens. 1-H317.
- Environment: Not classified.
- Classification (1999/45/EEC): R43.
- Human health: The product contains a sensitizing substance that may provoke an allergic reaction among sensitive individuals.
- 2.2 Label elements:
- Contains: Methyl-2H or Methyl-4 (3:1) mixture of EC #220-239-6.
- Label in accordance with (EC) No. 1272/2008:
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- Signal word: Warning
- Hazard statements: H317
- Precautionary statements: P261
- P280
- P302+352
- P333+313
- P321a
- P501
- Supplementary precautionary statements: P272
- P363
- 2.3 Other hazards: No information available.
- May cause an allergic skin reaction.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If on skin, wash with plenty of soap and water.
- If skin irritation or rash occurs, get medical advice/attention.
- Specific treatment (see first aid advice on this label).
- Dispose of contents/containers in accordance with local regulations.
- Contaminated work clothing should not be allowed out of the workplace.
- Wash contaminated clothing before reuse.

Section 3: Composition/information on ingredients

3.2 Mixtures:

Methyl-2H or Methyl-4 (3:1) mixture of EC #220-239-6	0.006%
CAS-No.:	55965-84-9
EC No.:	
<u>Classification (EC 1272/2008):</u>	<u>Classification (67/548/EEC):</u>
Acute Tox. 3 – H301	T; R23/24/25
Acute Tox. 3 – H311	C; R34
Acute Tox. 3 – H331	R43
Skin Corr. 1B – H314	N; R50/53
Skin Sens. 1 – H317	
Aquatic Acute 1 – H400	
Aquatic Chronic 1 – H410	

The full text for all R-phrases and hazard statements is displayed in Section 16.

Section 4: First aid measures

- 4.1 Description of first aid measures:
- Inhalation: In case of inhalation of spray mist: move person into fresh air and keep at rest. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
- Ingestion: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.
- Skin contact: Promptly wash contaminated skin with water. Promptly remove clothing if soaked through and wash the skin with water. Get medical attention promptly if symptoms occur after washing.
- Eye contact: Promptly wash eyes with plenty of water while lifting the eyelids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.
- 4.2 Most important symptoms and effects, both acute and delayed:
- Inhalation: Irritation of nose, throat, and airway.
- Ingestion: May cause discomfort if swallowed.
- Skin contact: Skin irritation. Risk of sensitization or allergic reactions among sensitive individuals.
- Eye contact: May cause severe irritation to eyes.
- 4.3 Indication of any immediate medical attention and special treatment needed: No recommendation given, but first aid may still be required in case of accidental exposure, inhalation, or ingestion of this chemical. If in doubt, get medical attention promptly!

Section 5: Firefighting measures

- 5.1 Extinguishing media: Water spray, foam, dry powder, or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture:
- Hazardous combustion products: None under normal conditions.
- Unusual fire & explosion hazards: No unusual fire or explosion hazards noted.
- 5.3 Advice for firefighters:
- Special firefighting procedures: No specific firefighting procedure given.
- Protective measures in fire: Use protective equipment appropriate for surrounding materials.

Section 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures: Use protective gloves, goggles, and suitable protective clothing.
- 6.2 Environmental precautions: Do not allow to enter drains, sewers, or watercourses.
- 6.3 Methods and material for containment and clean up: When dealing with a spillage, please consult the section relating to suitable protective measures. Absorb spillage with suitable absorbent material. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.
- 6.4 Reference to other sections: Wear protective clothing as described in Section 8 of this safety data sheet.

Section 7: Handling and storage

- 7.1 Precautions for safe handling: Avoid inhalation of vapors/spray and contact with skin and eyes. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.
- 7.2 Conditions for safe storage, including any incompatibilities: Keep in original container. Store at specified temperature. Refer to product label.
- 7.3 Specific end use(s): The identified uses for this product are detailed in Section 1.2.

Section 8: Exposure controls/personal protection

- 8.1 Control parameters:
- 8.2 Exposure controls:
- Protective equipment:



- Process conditions: Provide eyewash station.
- Engineering measures: Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.

Respiratory equipment:	No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.
Hand protection:	Use suitable protective gloves if risk of skin contact.
Eye protection:	If risk of splashing, wear safety goggles or face shield.
Other protection:	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures:	Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using, do not eat, drink or smoke.
Skin protection:	Wear apron or protective clothing in case of contact.

Section 9: Physical and chemical properties

9.1	Information on basic physical and chemical properties:	
	Appearance:	Liquid.
	Color:	Clear light (or pale) yellow.
	Odor:	Characteristic.
	Solubility:	Soluble in water.
	Initial boiling point and boiling range:	<100 @ 760 mm Hg.
	Melting point (°C):	Not determined.
	Relative density:	Not determined.
	Vapor density (Air =1):	Not determined.
	Vapor pressure:	Not determined.
	Evaporation rate:	Not determined.
	pH-Value, Conc. Solution:	7.2-7.6
	Viscosity:	Not determined.
	Decomposition temperature (°C):	Not determined.
	Flash point (°C):	Not applicable.
	Auto ignition temperature (°C):	Not determined.
	Flammability limit – lower (%):	Not applicable.
	Partition coefficient (N-octanol/water):	Not determined.
	Explosive properties:	No unusual fire or explosion hazards noted.
	Oxidizing properties:	Not determined.
9.2	Other information:	None.

Section 10: Stability and reactivity

10.1	Reactivity:	No data available.
10.2	Chemical stability:	Stable under normal temperature conditions.
10.3	Possibility of hazardous reactions:	Hazardous polymerization: will not polymerize.
10.4	Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
10.5	Incompatible materials:	Materials to avoid: Strong oxidizing substances. Strong reducing agents. Amines. Mercaptans (thiols).
10.6	Hazardous decomposition products:	None under normal conditions.

Section 11: Toxicological information

11.1	Information on toxicological effects:	
	Acute toxicity (oral LD50):	862 mg/kg rat.
	Acute toxicity (dermal LD50):	2800 mg/kg rabbit.
	Acute toxicity (inhalation LC50):	Not determined.
	Skin corrosion/irritation – human skin model test:	Not determined.
	Serious eye damage/irritation:	Not determined.
	Respiratory sensitization:	Not determined.
	Skin sensitization:	No information available.
	Germ cell mutagenicity (in vitro):	Not determined.
	Germ cell mutagenicity (in vivo):	Not determined.
	Carcinogenicity:	Not determined.
	Reproductive toxicity:	Not determined.
	STOT-single exposure:	Not determined.
	STOT-repeated exposure:	Not determined.
	Aspiration hazard:	Not determined.
	General information:	Knowledge about health hazard is incomplete.
	Inhalation:	Moderately irritating.
	Ingestion:	May cause discomfort if swallowed.
	Skin contact:	Liquid may irritate skin. Risk of sensitization or allergic reactions among sensitive individuals.
	Eye contact:	Irritation of eyes and mucous membranes.
	Health warnings:	May cause sensitization by skin contact.
	Route of entry:	Ingestion. Skin and/or eye contact.
	Name:	Methyl-2H or Methyl-4 (3:1) mixture of EC #220-239-6.

Section 12: Ecological information

Ecotoxicity: There are no data on the ecotoxicity of this product.

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| 12.1 | Toxicity: acute toxicity – fish: | Not determined. |
| 12.2 | Persistence and degradability: | There are no data on the degradability of this product. |
| 12.3 | Bioaccumulative potential: | No data available on bioaccumulation. |
| 12.4 | Mobility in soil: | The product is soluble in water. |
| 12.5 | Results of PBT and vPvB assessment: | No information available. |
| 12.6 | Other adverse effects: | The product contains a substance that may cause long term adverse effects in the aquatic environment. However, at the concentrations present, this product does not need to be classified as hazardous for the environment, and the effects are not expected to be significant. |
| Name: | | Methyl-2H or Methyl-4 (3:1) mixture of EC #220-239-6. |

Section 13: Disposal considerations

General information: Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local waste disposal authority.

- 13.1 Waste treatment methods: Dispose of waste and residues in accordance with local authority requirements.

Section 14: Transport information

General: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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| | Road transport notes: | Not classified. |
| | Rail transport notes: | Not classified. |
| | Sea transport notes: | Not classified. |
| | Air transport notes: | Not classified. |
| 14.1 | UN number: | Not applicable. |
| 14.2 | UN proper shipping name: | Not applicable. |
| 14.3 | Transport hazard class(es): | Not applicable. |
| 14.4 | Packing group: | Not applicable. |
| 14.5 | Environmental hazards: Environmentally hazardous substance/marine pollutant: | No. |
| 14.6 | Special precautions for user: | Not applicable. |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: | Not applicable. |

Section 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
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|----------------------------|---|
| Approved code of practice: | Classification and labeling of substances and preparations dangerous for supply. |
| Guidance notes: | Safety data sheets for substances and preparations. |
| EU Legislation: | Workplace exposure limits EH40. |
| | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. |
- 15.2 Chemical safety assessment: No chemical safety assessment has been carried out.

Section 16: Other information

General information: Only trained personnel should use this material.

SDS No: F17-523-2-B
Date: May 29, 2014

Risk phrases in full:

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| R34 | Causes burns. |
| R43 | May cause sensitization by skin contact. |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Hazard statements in full:

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|------|---|
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H331 | Toxic if inhaled. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H400 | Very toxic to aquatic life. |

DISCLAIMER: This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.