

Material Safety Data Sheet

1. Product and company identification

Product name : Antibodies (in PBS buffer with BSA and Sodium Azide)

Supplier : Thermo Fisher Scientific
Pierce Biotechnology
P.O. Box 117
Rockford, IL 61105
United States
815.968.0747 or
800.874.3723

Manufacturer : Thermo Fisher Scientific
Pierce Biotechnology
P.O. Box 117
Rockford, IL 61105
United States
815.968.0747
800.874.3723

Product No. : 0062204 0082315 0089910 0089911 0089912 0089913 1860324 1860325 1860326 1860327 1860582 1860583 1860626 1860627 1860843 1860844 1860858 1860937 1860938 1860941 1860942 1860959 1860960 1860975 1860976 1860988 1860989 1860990 1860991 1861301 1861302 1861303 1861751 1861753 1861755 1861757 1861785 1892112 1892113 1892114 1892117 1892120 1892121 1892123 1892124 1892127 1892128 1892288 1892295 1892298 1892300 1892304 1892314 1892348 1892349 1892402 1892441 1892548 1892549 1892555 1892564 1892568 1892569 1892573 1892578 1892622 1892624 1892631 1892641 1892682 1892683 1892938 1892940 1892966 OPA103891 MA1082 MA1846 MA119466 MA119557 MA137000 MA137003 MA137005 MA137008 MA137016 MA137018 MA137021 MA137027 MA137033 MA137035 MA137036 MA137038 MA137039 MA137064 MA137065 MA137081 MA137117 MA137118 MA137134 MA137145 MA137149 MA137154 MA137159 MA137163 MA137166 MA137172 MA137189 MA137191 MA137193 MA137198 MA137201 MA137216 MA137219 MA137228 MA137236 MA137275 MA137302 MA137308 MA137309 MA137320 MA137324 MA137329 MA137337 MA137341 MA137342 MA137345 MA137350 MA137352 MA137354 MA137357 MA137359 MA137366 MA137387 MA137389 MA137394 MA137400 MA137401 MA137403 MA137405 MA137407 MA137411 MA137419 MA137423 MA137428 MA137431 MA137447 MA137463 MA137466 MA137486 MA137488 MA137490 MA137493 MA137495 MA137531 MA137533 MA137542 MA137564 MA137568 MA137576 MA137589 MA137592 MA137598 MA137605 MA137619 MA137636 MA137642 MA137643 MA137645 MA137663 MA137665 MA137673 MA137678 MA137691 MA137698 MA137700 MA137721 MA137723 MA137739 MA137741 MA137755 MA137758 MA137760 MA137761 MA137772 MA137783 MA137790 MA137797 MA137801 MA137802 MA137817 MA137825 MA137831 MA137832 MA137833 MA137835 MA137837 MA137841 MA137846 MA137852 MA137866 MA137867 MA137869 MA137877 MA137881 MA137889 MA137900 MA137910 MA137911 MA137912 MA137913 MA137915 MA137916 MA137917 MA137918 MA137919 MA137920 MA137921 MA137923 MA137927 MA137929 MA137937 MA137938 MA137941 MA137953 MA137960 MA137981 MA137989 MA137993 MA138003 MA138005 MA138007 MA138009 MA138011 MA138016 MA138018 MA138020 MA138024 MA138027 MA138035 MA138037 MA138038 MA138040 MA138046 MA138048 MA138050 MA138052 MA138054 MA138058 MA138060 MA138061 MA138063 MA138069 MA138074 MA138081 MA138084 MA138086 MA138088 MA138092 MA138094 MA138098 MA138102 MA138126 MA138128 MA138133 MA138136 MA138139 MA138140 MA138144 MA138147 MA138150 MA138151 MA138152 MA138153 MA138154 MA138155 MA138156 MA138157 MA138159 MA138164 MA138173 MA138177 MA138179 MA138183 MA138187 MA138189 MA138191 MA138203 MA138204 MA138209 MA138211 MA138214 MA138215 MA138218 MA138220 MA138221 MA138223 MA138225 MA138243 MA138245 MA138249 MA138253 MA138271 MA138273 MA138296 MA138320 MA138336 MA138344 MA138349 MA138353 MA138354 MA138361 MA138373 MA138378

7/14/2009.

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 MA180533 MA180536 MA180538 MA180549 MA180552 MA180555 MA180556
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 MA182068 MA182072 MA182074 MA182078 MA182083 MA182087 MA182093
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PA185256 PA185258 PA185292 PA185306 PA185343 PA185396 PA185408 PA185454
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PA186335 PA186344 PA186353 PA186360 PA186401 PA186405 PA186406 PA186430
PA186557 PA186813 PA186832 PA186860 PA186863 PA187752 PA1941 RP86948
RP87202 SA137891 SA137893 SA137902 SA137904 SA137971 SA137972 SA138042

MSDS # : 7539
Validation date : 7/14/2009.
Print date : 7/14/2009.
Responsible name : MSDS Specialist
In case of emergency : CHEMTREC: Use of
800.424.9300 Substance/Preparation
OUTSIDE US: Refer to the instruction booklet for
202.483.7616 Otherwise, contact supplier for
specific applications.

2. Hazards identification

Physical state : Liquid.
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview : WARNING !
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.
Irritating to eyes, respiratory system and skin. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that can cause target organ damage. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects
Inhalation : Irritating to respiratory system.
Ingestion : No known significant effects or critical hazards.
Skin : Irritating to skin.
Eyes : Irritating to eyes.

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2. Hazards identification

Potential chronic health effects

Chronic effects : Contains material that can cause target organ damage.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.
Target organs : Contains material which causes damage to the following organs: mucous membranes, skin.
Contains material which may cause damage to the following organs: eyes.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
Ingestion : No specific data.
Skin : Adverse symptoms may include the following:
irritation
redness
Eyes : Adverse symptoms may include the following:
pain or irritation
watering
redness
Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See toxicological information (section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
Sodium Phosphate, Dibasic	7558-79-4	0.1 - 1

Substance/preparation : Preparation

There are no ingredients or additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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4. First aid measures

- Inhalation** : Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Flammability of the product** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous combustion products** : Decomposition products may include the following materials:
phosphorus oxides
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

- Europe**
No exposure limit value known.
- Consult local authorities for acceptable exposure limits.**
- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Antibodies (in PBS buffer with BSA and Sodium Azide)

8 . Exposure controls/personal protection

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

Physical state : Liquid.

pH : 7.4 to 7.6

Dispersibility properties : Easily dispersible in the following materials: cold water and hot water.

Solubility : Easily soluble in the following materials: cold water and hot water.

10 . Stability and reactivity

Chemical stability : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions : Will not occur.

Antibodies (in PBS buffer with BSA and Sodium Azide)

11 . Toxicological information

United States

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sodium phosphate, dibasic	LD50 Oral	Rat	17000 mg/kg	-
	LDLo	Rat	1 g/kg	-
	Intraperitoneal			
	LDLo	Rat	1 g/kg	-
	Intramuscular			
	LDLo	Rat	1 g/kg	-
	Subcutaneous			

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
sodium phosphate, dibasic	-	-	-	None.	-	None.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Europe

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

United States

Aquatic ecotoxicity

Conclusion/Summary : Not available.

Other adverse effects

: No known significant effects or critical hazards.

Antibodies (in PBS buffer with BSA and Sodium Azide)

13 . Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*
DOT Classification	Not regulated.	-	-	-
IATA-DGR Class	Not regulated.	-	-	-

PG* : Packing group

15 . Regulatory information

United States

HCS Classification : Irritating material
Target organ effects

U.S. Federal regulations : **United States inventory (TSCA 8b)**: Not determined.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: sodium phosphate, dibasic

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: sodium phosphate, dibasic: Immediate (acute) health hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: sodium phosphate, dibasic

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

Canada

WHMIS (Canada) : Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists : **CEPA Toxic substances**: None of the components are listed.

Canadian ARET: None of the components are listed.

Canadian NPRI: None of the components are listed.

Alberta Designated Substances: None of the components are listed.

Ontario Designated Substances: None of the components are listed.

Quebec Designated Substances: None of the components are listed.

Canada inventory : **Canada inventory**: Not determined.

7/14/2009.

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Antibodies (in PBS buffer with BSA and Sodium Azide)

15 . Regulatory information

EU regulations

Risk phrases : This product is not classified according to EU legislation.
:

International regulations

International lists : **Australia inventory (AICS)**: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Korea inventory (KECI): Not determined.
Philippines inventory (PICCS): All components are listed or exempted.
Japan inventory (ENCS): Not determined.

16 . Other information

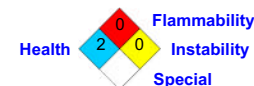
Label requirements : CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Hazardous Material Information System (U.S.A.) :

Health	2
Flammability	0
Physical hazards	0

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) :



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Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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