



Material Safety Data Sheet

MSDS/SDS Number: 00000215MSDS
Latest Revision Date: March 2, 2011
Revision: A

SECTION 1 IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Sodium Azide with Polypeptide.
Catalogue Number(s): See Section 16
Chemical Name: Aqueous solution of Sodium Azide and Polypeptides.
Synonyms: None.
Intended Product Use: Intended for cellular research.
Manufacturer/Distributor: Millipore Corporation (Corporate Headquarters) Millipore S.A.S. (European Headquarters)
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SECTION 2 HAZARDS IDENTIFICATION

Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

Symbol: **Hazard Category:** 5: Acute Toxicity
Signal Word: Warning
None Applicable **Hazard Statement:** H303+H313+H333: May be harmful if swallowed, in contact with skin or if inhaled.

GHS Precautionary Statements:

Prevention: P281: Use personal protective equipment as required.
Response: P312: Call a POISON CENTER/doctor/physician if you feel unwell.
P308+P313: If exposed or concerned: Get medical advice/attention.
Storage: P403+P233: Store in a well ventilated place. Keep container tightly closed.
Disposal: P501: Dispose of content/container in accordance with local regulations.

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH):

Symbol: **Symbol Letter:** *None Applicable.*
Hazard: *None Applicable.*
None Applicable **Risk Phrase:** *None Applicable.*

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Identification of Dangerous Components: This product contains the substances listed below, which are defined as dangerous substances or hazardous chemicals as defined in European Community Directives 67/548/EEC or 1999/45/EC, and Hazard Communication Standard 29 CFR 1910.1200.

Dangerous Component	EINECS or ELINCS No.	CAS No.	Content (weight percent)	EU Hazard Symbol Letters*†	R Phrases** †
Sodium Azide:	247-852-1	26628-22-8	< 1 %	T+ N	R28 R32 R50/53

Identification of Components Not Classified as Dangerous: This product contains the substances listed below, which are not defined as dangerous substances or hazardous chemicals as defined in European Community Directives 67/548/EEC or 1999/45/EC, and Hazard Communication Standard 29 CFR 1910.1200.

Non-Dangerous Component	EINECS or ELINCS No.	CAS No.	Content (weight percent)	EU Hazard Symbol Letters *	R Phrases**
Polypeptides:	N/A	N/A	Proprietary	N/A	N/A
Water:	231-791-2	7732-18-5	< 99 %	N/A	N/A

* Symbol letters and categories of danger: **T+** = Very toxic, **T** = Toxic, **C** = Corrosive, **Xn** = Harmful, **Xi** = Irritant, **E** = Explosive, **F+** = Extremely flammable, **F** = Very flammable, **N** = Dangerous for the environment, **O** = Oxidising.

** The full text of each R phrase is listed in Section 15.

† Symbols letters and R Phrases are assigned to each dangerous component for the highest concentration range as defined in 67/548/EEC and 1999/45/EC.

SECTION 4 FIRST AID MEASURES

	Treatment Measures:	Symptoms of Exposure:
Contact with Eyes:	If the product contacts the eyes, promptly wash (irrigate) the eyes with large amounts of tepid water for at least 15 minutes, occasionally lifting the lower and upper lids. Seek medical attention immediately.	Possible eye irritation
Ingestion:	Seek medical attention immediately. Never give an unconscious person anything by mouth.	Possible gastrointestinal irritation causing nausea and vomiting.

- Inhalation:** If a person inhales large amounts of the product move the exposed person to fresh air at once. If breathing is difficult or stops seek immediate medical attention. Possible respiratory tract and mucous membrane irritation. Exposure to hydrazoic acid vapors evolved from sodium azide can cause irritation of the mucous membranes of the respiratory tract with possible bronchitis or pulmonary edema as well as systemic effects such as hypotension.
- Skin Contact:** If the product contacts the skin, immediately flush the contaminated skin with mild soap and water. If this chemical penetrates clothing immediately remove the clothing and flush the skin with water. Seek medical attention immediately. Possible skin irritation.
- Mild Exposure:** The most commonly reported health effect is hypotension, which can occur independent of route of exposure. Mild to moderate exposures can cause headache, mild hypotension, syncope, nausea, vomiting, diarrhea, abdominal pain, and a general feeling of apprehension and unwellness.
- Acute Exposure:** More serious poisoning can cause central nervous system depression, coma, chest discomfort, hyperthermia or hypothermia, pulmonary edema, lactic acidosis, bradycardia or tachycardia, severe hypotension (sometimes preceded by hypertension), atrial and ventricular dysrhythmias, electrocardiographic changes, shortness of breath, diaphoresis, blurred vision, and seizures.

SECTION 5 FIRE FIGHTING MEASURES

- Suitable Extinguishing Media:** Use extinguishing media appropriate for the surrounding fire. This product is compatible with commercially available extinguishing media.
- Special Protective Equipment for Firefighters:** This product does not require the use of any additional fire fighting equipment beyond what is appropriate to the surrounding fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Wear chemical resistant boots, clothing, eye protection, and gloves to prevent skin contact (See Section 8).
- Small Spills:** Identify the spilled material(s). Barricade the spill area and notify others in the surrounding areas. Control all sources of ignition if the substance is flammable. Don the appropriate personal protective equipment (See section 8). Control the movement of the spilled product (into drains, soil, across floors etc.) with absorbent spill materials. Collect contaminated spill material and place in container meeting appropriate U.N. packaging requirements. Decontaminate used equipment and affected spill area appropriately.
- Large Spills:** In addition to small spill precautions, determine personnel evacuation distances. Notify appropriate authorities if necessary.

Environmental Precautions: Collect and dispose of contaminated materials according to international, federal, state and local regulations. Keep away from surface and ground water, drains, and soil.

SECTION 7 HANDLING AND STORAGE

Handling: Seek appropriate training to safely handle this product under normal conditions. Use the recommended personal protective equipment (See Section 8) to prevent chemical exposures. Wash hands with soap and water before eating, drinking, or touching common items (phone, computer, etc.) to prevent cross contamination. Use this product with adequate ventilation. See product technical data sheet for details.

Storage: See product technical data sheet for details.

Specific Use: See product technical data sheet for details.

SECTION 8 EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limit Values:	OSHA PEL	NIOSH REL	ACGIH TLV	Other
Sodium Azide:	Not Listed	0.1 ppm skin as HN ₃ , 0.3 mg/m ³ skin as NaN ₃ (Ceiling)	0.11 ppm as HN ₃ , 0.29 mg/m ³ as NaN ₃ (Ceiling), A4 Not classifiable as a human carcinogen.	See Below
Australia:		Ceiling 0.11 ppm (0.3 mg/m ³), JUL2008		
Belgium:		TWA 0.1 mg/m ³ , STEL 0.3 mg/m ³ , Skin, MAR2002		
Denmark:		TWA 0.1 mg/m ³ , OCT 2002		
E.C.:		TWA 0.1 mg/m ³ ; STEL 0.3 mg/m ³ (skin), FEB 2006		
Finland:		TWA 0.1 ppm (0.3 mg/m ³), STEL 0.3 ppm (0.9 mg/m ³), JAN1999		
France:		VME 0.1 mg/m ³ , VLE 0.3 mg/m ³ , Skin, FEB2006		
Germany:		MAK 0.2 mg/m ³ (inhalable), 2005		
Hungary:		TWA 0.1 mg/m ³ , STEL 0.3 mg/m ³ , SEP2000		
Korea:		Ceiling 0.1 ppm (0.3 mg/m ³), 2006		
The Netherlands:		MAC-TGG 0.1 mg/m ³ , Skin, 2003		
New Zealand:		Ceiling 0.11 ppm (0.29 mg/m ³), JAN2002		
Sweden:		TWA 0.1 mg/m ³ ; STEL 0.3 mg/m ³ , Skin, JUN2005		
Switzerland:		MAK- week 0.2 mg/m ³ ,KZG- week 0.4e mg/m ³ , DEC2006		
United Kingdom:		TWA 0.1 mg/m ³ ; STEL 0.3 mg/m ³ (skin), 2005		

Normal Handling Conditions

Emergency Response Conditions

Engineering Controls: General room ventilation is adequate for the use of this product.

Provide negative pressure ventilation.

Respiratory Protection Use appropriate respiratory protection.

Use appropriate respiratory protection.

Eye Protection:	Safety glasses with side shields.	Chemical splash goggles or other face protection as appropriate.
Skin Protection:	Laboratory coat, adequate chemical-resistant gloves.	Chemically resistant boots, clothes, and impermeable gloves as appropriate.
Environmental Exposure Controls:	Not Available.	Not Available.
Other Equipment:	Safety shower, eyewash stations, and hand washing equipment should be available close to the work area as needed.	

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Colorless Liquid	
Odor:	None	
Odor Threshold:	Not Available	
pH:	6.5 – 7.5	
Melting Point/Freezing Point:	Essentially that of water	
Initial Boiling Point and Boiling Range:	Essentially that of water	
Flash Point:	Not Available	
Evaporation Rate, 20 °C:	Essentially that of water	
Flammability (Solid/Gas):	Not Available	
Explosive Limits:	LEL: Not Available	UEL: Not Available
Vapor Pressure:	Not Available	
Vapor Density, 20 °C:	<1 mm Hg	
Relative Density (Water = 1.0):	1.0 – 1.2	
Solubility:	Soluble	
Partition Coefficient (n-octanol/water):	Not Available	
Auto Ignition Temperature (ASTM D1929):	Not Available	
Decomposition Temperature:	Not Available	
Oxidizing Properties:	None	
Viscosity, Centipoise:	Not Available	

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal operating conditions and use as described in the product technical data sheet.
Conditions to Avoid:	Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the

highly explosive compounds of lead azide & copper azide.

Incompatible Materials to Avoid: Strong acids or bases, metals (lead, silver, mercury, and copper), strong oxidizers, and extreme temperatures. Mixing sodium azide with chromyl chloride, benzoyl chloride, barium carbonate, or trifluoroacryloyl fluoride causes violent explosive reactions.

Hazardous Decomposition Products: Heating to decomposition temperature may produce carbon monoxide, carbon dioxide, nitrogen oxides.

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicology Data: Toxicological information for this product as a whole does not exist, below is data for the individual components.

Sodium Azide: RTECS #VY8050000

	Toxicity Test	Exposure Route	Dose	Observed Effect
Acute Toxicity:				
Sodium Azide:	LC ₅₀ (Rat)	Inhalation	37 mg/m ³	Eye: Other eye effects Behavioral: Convulsions or effect on seizure threshold Lung, Thorax, or Respiration: Structural or functional change in trachea or bronchi ¹
	Lowest Published Lethal Dose (Human)	Oral	29 mg/kg	Brain and Coverings: Increased intracranial pressure Cardiac: Pulse rate decreased with fall in BP Lung, Thorax, or Respiration: Acute pulmonary edema ¹
	LD ₅₀ (Rat)	Oral	27 mg/kg	N/A ¹
	LD ₅₀ (Rat)	Subcutaneous	23 mg/kg	N/A ¹
	LD ₅₀ (Rabbit)	Skin	20 mg/kg	N/A ¹

Skin Corrosion/Irritation: Not Available

Serious Eye Damage/Eye Irritation: Not Available

Respiratory or Skin Sensitization: Not Available

Germ Cell Mutagenicity: Not Available

Reproductive Toxicity: Not Available

STOST-Single Exposure: Not Available

STOST-Repeated Exposure: Not Available

Aspiration Hazard: Not Available

Carcinogenicity: Carcinogenetic information for this product as a whole does not exist, below is data for the individual components.

Research Agency:	OSHA:	NTP:	IARC:
Sodium Azide:	Not Listed	Not Listed	Not Listed

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Ecotoxicity information for this product as a whole does not exist, below is data for the individual components.

Sodium Azide: LC₅₀ Lepomis Macrochirus 24 Hours 1,800 ug/L²
LC₅₀ Lepomis Macrochirus 48 Hours 800.0 ug/L²
LC₅₀ Lepomis Macrochirus 96 Hours 680.0 ug/L³

Mobility:

Sodium Azide: Aquatic Fate: Sodium azide is stable in water in the absence of light but appears to be susceptible to photo-decomposition by solar radiation. Photolysis of sodium azide may result in metal nitrides initially, with the eventual formation of the free metal and nitrogen gas.⁴

Persistence and Degradation:

Sodium Azide: The dissipation of azides in soil is not by microbial action but is strictly a chemical process accelerated by increasing acidity and elevated temperature. Sodium azide dissipates rapidly in soils by oxidation or by reaction of hydrazoic acid with soil organic acids to form azides of these acids which decomposes by the Curtius rearrangement.⁵

Bio Accumulative Potential: Not Available.

Results of PBT Assessment: Not Available.

Other Adverse Effects: None Known.

SECTION 13 DISPOSAL INFORMATION

Substance: Dispose of unused contents in accordance with international, federal, state, and local regulations.

Contaminated Packaging: Dispose of container in accordance with international, federal, state and local requirements.

SECTION 14 TRANSPORTATION INFORMATION

UN Number: Not Listed.

Class: Not Listed.

Proper Shipping Name: Not Listed.

Packing Group: Not Listed.

Marine Pollutant: Not Listed.

Other Applicable Information: None.

SECTION 15 REGULATORY INFORMATION

Australia: Hazchem Code: Not Listed.

Poisons Schedule Number: Not Listed.

California:	Proposition 65 Listed:	Not Listed.
Canada:	WHMIS:	Not Listed.
European Union:	REACH:	Chemical Safety Assessment for the substance or substances in the preparation not required.
	Substances of Very High Concern (SVHC) – January 13, 2010:	This product does not contain SVHC's in concentrations above 0.1% weight/weight.
	Category of Danger:	T+: Very Toxic N: Dangerous for the Environment
	Risk Phrases:	R28: Very toxic if swallowed. R32: Contact with acids liberates very toxic gas. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	Safety Phrases:	S7/9: Keep container tightly closed and in a well-ventilated place. S20/21: When using do not eat, drink or smoke. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27/28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and tepid water. S29/35: Do not empty into drains; dispose of this material and its container in a safe way. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately.
	OECD/High Production Volume (HPV) Chemicals:	Water.
	RoHS:	This product does not contain RoHS listed substances in concentrations above the established thresholds.
Japan:	Poisonous and Deleterious Substances Control Law:	Sodium Azide: Poisonous Substance.

SECTION 16 ADDITIONAL INFORMATION

Product Number:	Product Name:
AB10080	RABBIT ANTI- CYP450 2E1 POLYCLONAL ANTIBODY
AB10081	RABBIT ANTI-CYP2D6 POLYCLONAL ANTIBODY
AB10088	RABBIT ANTI- CYP450 1A1 POLYCLONAL ANTIBODY
AB10093	RABBIT ANTI- GST THETA 1 POLYCLONAL ANTIBODY
AB10300	RABBIT ANTI-CYP2A6 POLYCLONAL ANTIBODY
AB10301	RABBIT ANTI-POR POLYCLONAL ANTIBODY

AB10302 RABBIT ANTI-PXR POLYCLONAL ANTIBODY
AB10303 RABBIT ANTI-CAR POLYCLONAL ANTIBODY
AB10304 RABBIT ANTI-FXR-A POLYCLONAL ANTIBODY
AB10305 RABBIT ANTI-FXR-B POLYCLONAL ANTIBODY
AB10324 RABBIT ANTI-CYP450 Pan 2C POLYCLONAL ANTIBODY
AB122S RABBIT ANTI-DOPAMINE POLYCLONAL ANTIBODY
AB131 RABBIT ANTI-GABA POLYCLONAL ANTIBODY
AB1620 GOAT ANTI-HUMAN VIMENTIN POLYCLONAL ANTIBODY
AB1762 RABBIT ANTI-SNAP-25 POLYCLONAL ANTIBODY
AB1764 RABBIT ANTI-N-ETHYLMALEIMIDE-SENSITIVE FUSION PROTEIN (NSF)
POLYCLONAL ANTIBODY
AB1838 RABBIT ANTI-OVINE IL-1b POLYCLONAL ANTIBODY
AB1839 RABBIT ANTI-OVINE IL-6 POLYCLONAL ANTIBODY
AB1840 RABBIT ANTI-OVINE IL-8 POLYCLONAL ANTIBODY
AB1842 RABBIT ANTI-OVINE TNF-a POLYCLONAL ANTIBODY
AB201-100ML DONKEY ANTI-RABBIT IgG (Heavy and Light Chain) POLYCLONAL
ANTIBODY
AB201-20ML DONKEY ANTI-RABBIT IgG (Heavy and Light Chain) POLYCLONAL
ANTIBODY
AB212-K GOAT ANTI-CHICKEN IGG POLYCLONAL ANTIBODY
AB21-KDL GOAT ANTI RABBIT IgG(Heavy and Light Chain) POLYCLONAL ANTIBODY
AB22-2ML GOAT ANTI-HUMAN IGG (H & L) POLYCLONAL ANTIBODY
AB26 GOAT ANTI MOUSE IgG (Heavy and Light Chain) POLYCLONAL
ANTIBODY
AB302-K RABBIT ANTI-CYCLIC GMP RAW BLEED
AB3802 RABBIT ANTI-JAK1 POLYCLONAL ANTIBODY
AB3804 RABBIT ANTI-JAK2 POLYCLONAL ANTIBODY
AB3806 RABBIT ANTI-MOUSE JAK3 POLYCLONAL ANTIBODY
AB3807 RABBIT ANTI-MOUSE JAK3 POLYCLONAL ANTIBODY
AB5024 RABBIT ANTI-LEU-ENKEPHALIN POLYCLONAL ANTIBODY
AB5026 RABBIT ANTI-MET-ENKEPHALIN POLYCLONAL ANTIBODY
AB5076 RABBIT ANTI-HUMAN BETA-AMYLOID 1-40/42 POLYCLONAL ANTIBODY
AB5366 RABBIT ANTI-AMYLOID-BETA PROTEIN 17-42 POLYCLONAL ANTIBODY
AB5368 RABBIT ANTI-AMYLOID PRECURSOR PROTEIN [KPI DOMAIN]
POLYCLONAL ANTIBODY
AB5454 RABBIT ANTI-TUC-4 PROTEIN (Ulip-1/CRMP-4) POLYCLONAL ANTIBODY
AB5454-50UL RABBIT ANTI-TUC-4 PROTEIN (Ulip-1/CRMP-4) POLYCLONAL ANTIBODY
AB5456 RABBIT ANTI-MYELIN PROTEOLIPID PROTEIN POLYCLONAL ANTIBODY
AB5490 RABBIT ANTI-ATRIAL NATRIURETIC Antibody AFFINITY PURIFIED
POLYCLONAL ANTIBODY
AB5496 RABBIT ANTI-NEUROTENSIN POLYCLONAL ANTIBODY
AB5498 RABBIT ANTI-ACTH POLYCLONAL ANTIBODY
AB565 RABBIT ANTI-p53 ONCOPROTEIN POLYCLONAL ANTIBODY
AB5731 RABBIT ANTI-NANOG. MOUSE AFFINITY PURIFIED POLYCLONAL
ANTIBODY

AB5875 RAT ANTI-HOMER (ALL ISOFORMS) POLYCLONAL ANTIBODY
AB5885 RABBIT ANTI-HISTAMINE POLYCLONAL ANTIBODY
AB5920 RABBIT ANTI-CALCITONIN GENE RELATED Antibody (CGRP)
POLYCLONAL ANTIBODY
AB631L1-K Goat anti-Alpha HCG (Affinity Purified)
AB7100 SHEEP ANTI-HUMAN IgA (ALPHA CHAIN SPECIFIC, STABILIZED
ANTISERUM)
AB7104 SHEEP ANTI-HUMAN IgG (GAMMA CHAIN SPECIFIC)STABILIZED
ANTISERUM
AB7108 SHEEP ANTI-HUMAN IMMUNOGLOBULIN (GAMMA AND LIGHT CHAIN
SPECIFIC) STABILIZED ANTISERUM
AB7124 SHEEP ANTI-HUMAN IgM (MU CHAIN SPECIFIC) STABILIZED
ANTISERUM
AB7136 SHEEP ANTI-MOUSE IMMUNOGLOBULIN (GAMMA AND LIGHT
CHAINS)STABILIZED ANTISERUM
AB7142 SHEEP ANTI-HUMAN TRANSFERRIN STABILIZED ANTISERUM
AB714-K GOAT ANTI HUMAN KAPPA LIGHT CHAIN (Free and Bound)
AB7281-K GOAT ANTI HUMAN IgG (Gamma Fraction) (Fc Fragment specific)
AB7283-K GOAT ANTI HUMAN IgG (Fc Fragment specific)
AB7284K GOAT ANTI HUMAN IgG (Fc Fragment specific)
AB728K GOAT ANTI HUMAN IgG (Fc Fragment specific)
AB728T-K GOAT ANTI-HUMAN IgG
AB8123 RABBIT ANTI-PHOSPHO INTEGRIN B1 (Thr788/789) POLYCLONAL
ANTIBODY
AB8124 RABBIT ANTI-PHOSPHO INTEGRIN B1 (Ser785) POLYCLONAL
ANTIBODY
AB8125 RABBIT ANTI-PHOSPHO INTEGRIN B1 (Tyr783) POLYCLONAL
ANTIBODY
AB8126 RABBIT ANTI-PHOSPHO INTEGRIN B1 (Tyr795) POLYCLONAL
ANTIBODY
AB8200 RABBIT ANTI-PHOSPHO INTEGRIN B1 (Ser785) POLYCLONAL
ANTIBODY
AB902 RABBIT ANTI-ADRENOCORTICOTROPIC HORMONE (ACTH)
POLYCLONAL ANTIBODY
AB095 RABBIT ANTI-BOMBESIN POLYCLONAL ANTIBODY
AB9218 RABBIT ANTI- COLLAPSIN RESPONSE MEDIATOR PROTEIN-2 (CRMP-2)
AFFINITY PURIFIED POLYCLONAL ANTIBODY
AB9248 SHEEP ANTI- NONSELENIUM GLUTATHIONE PEROXIDASE (CLARA
CELL PROTEIN 26 KD, NSGP, 1-Cys PEROXIREDOXIN) POLYCLONAL
ANTIBODY
AB9556 RABBIT ANTI-GODZ AFFINITY PURIFIED POLYCLONAL ANTIBODY
MAB1044 MOUSE ANTI-OVINE IL-8 MONOCLONAL ANTIBODY
MAB1261 MOUSE ANTI-HUMAN ALPHA-1-ANTITRYPSIN
MONOCLONAL ANTIBODY
MAB1282 MOUSE ANTI-c-erbB-2 PROTEIN MONOCLONAL ANTIBODY
MAB1283 MOUSE ANTI-c-FOS ONCOPROTEIN MONOCLONAL ANTIBODY
MAB1407 MOUSE ANTI-RAT SIRP [Expressed on Macrophage, Granulocyte and
Dendritic Cells] MONOCLONAL ANTIBODY

MAB1435-K MOUSE ANTI-RAT MONOCYTES/MACROPHAGES MONOCLONAL ANTIBODY

MAB1452 MOUSE ANTI-EXP ALLERGIC ENCEPHALITOGENIS Antibody (EAE) MONOCLONAL ANTIBODY

MAB1462 MOUSE ANTI-TRANSMISSIBLE GASTROENTERITIS VIRUS (TGEV) MONOCLONAL ANTIBODY

MAB1467 MOUSE ANTI-BROMODEOXYURIDINE (BRDU) MONOCLONAL ANTIBODY

MAB1469 MOUSE ANTI-HUMAN ALPHA-1-ACID GLYCOPROTEIN MONOCLONAL ANTIBODY

MAB1472 MOUSE ANTI-CK-M MONOCLONAL ANTIBODY

MAB1492 MOUSE ANTI-MOUSE CD44 (HCAM, Ly24A.2) MONOCLONAL ANTIBODY

MAB1520 RAT ANTI-ZO-1 TIGHT JUNCTION-ASSOCIATED Antibody MONOCLONAL ANTIBODY

MAB1552 MOUSE ANTI-MYOSIN, VENTRICULAR HEAVY CHAIN a/b MONOCLONAL ANTIBODY

MAB1572 MOUSE ANTI-PARVALBUMIN MONOCLONAL ANTIBODY

MAB1580 MOUSE ANTI-OLIGODENDROCYTES MONOCLONAL ANTIBODY

MAB1580-50UL MOUSE ANTI-OLIGODENDROCYTES MONOCLONAL ANTIBODY

MAB1581 MOUSE ANTI-CHONDROITIN SULFATE PROTEOGLYCAN (CSPG) PROTEIN CORE EPI TOPE MONOCLONAL ANTIBODY

MAB1582 MOUSE ANTI-CHONDROITIN SULFATE PROTEOGLYCAN (CSPG) CARBOHYDRATE EPI TOPE MONOCLONAL ANTIBODY

MAB1678 MOUSE ANTI-HUMAN FILAMIN A MONOCLONAL ANTIBODY

MAB1740 MOUSE ANTI-LFA-1 (CD11a) MONOCLONAL ANTIBODY

MAB1745 MOUSE ANTI-LEUKOCYTE (CD18) MONOCLONAL ANTIBODY

MAB1902 MOUSE ANTI HUMAN TENASCIN MONOCLONAL ANTIBODY

MAB1952 MOUSE ANTI-HUMAN INTEGRIN a3 MONOCLONAL ANTIBODY

MAB1967 MOUSE ANTI-HUMAN INTEGRIN ALPHA 2 BETA 1 MONOCLONAL ANTIBODY

MAB1978 MOUSE ANTI-HUMAN INTEGRIN a-V MONOCLONAL ANTIBODY

MAB1981 MOUSE ANTI-HUMAN INTEGRIN BETA 1 MONOCLONAL ANTIBODY

MAB2016 ** INACTIVE SEE MAB2017** MOUSE ANTI- HUMAN CARTILAGE PROTEOGLYCAN MONOCLONAL ANTIBODY

MAB2117 MOUSE ANTI-HUMAN CD11b (CR3bi Receptor) MONOCLONAL ANTIBODY

MAB2118 RAT ANTI-HUMAN T & B LYMPHOCYTES (Cdw52) AND MONOCYTES MONOCLONAL ANTIBODY

MAB2512 MOUSE ANTI-HUMAN KU MONOCLONAL ANTIBODY

MAB3034 MOUSE ANTI-HUMAN SINGLE STRANDED DNA MONOCLONAL ANTIBODY

MAB3034-K MOUSE ANTI-HUMAN SINGLE STRANDED DNA MONOCLONAL ANTIBODY

MAB3053 MOUSE ANTI-PAN 14-3-3 PROTEINS MONOCLONAL ANTIBODY

MAB3074 MOUSE ANTI-PROTEIN KINASE C alpha MONOCLONAL ANTIBODY

MAB308 MOUSE ANTI-DOPAMINE BETA HYDROXYLASE (DBH) MONOCLONAL ANTIBODY

MAB308-K MOUSE ANTI-DOPAMINE BETA HYDROXYLASE (DBH) MONOCLONAL ANTIBODY

MAB3200	MOUSE ANTI-PI 3 KINASE (p85 GAMMA SUBUNIT) MONOCLONAL ANTIBODY
MAB3217	MOUSE ANTI- POLY ADP RIBOSE POLYMERASE [PARP] MONOCLONAL ANTIBODY
MAB323	MOUSE ANTI-MYELIN BASIC PROTEIN (aa131-136) MONOCLONAL ANTIBODY
MAB325	MOUSE ANTI-SYNTAXIN MONOCLONAL ANTIBODY
MAB333	MOUSE ANTI-SYNAPTOBREVIN [VAMP] MONOCLONAL ANTIBODY
MAB336	MOUSE ANTI-SYNTAXIN MONOCLONAL ANTIBODY
MAB3466	MOUSE ANTI-PLASMA MEMBRANE Ca ⁺⁺ -ATPase (PMCA) / Ca ⁺⁺ -Pump MONOCLONAL ANTIBODY
MAB360	MOUSE ANTI-GLIAL FIBRILLARY ACIDIC PROTEIN (GFAP) MONOCLONAL ANTIBODY
MAB362	MOUSE ANTI-MAP1 MONOCLONAL ANTIBODY
MAB364	MOUSE ANTI-MAP2 MONOCLONAL ANTIBODY
MAB366	MOUSE ANTI-MAP1B [MAP5] MONOCLONAL ANTIBODY
MAB366P-K	MOUSE ANTI MAP5 Monoclonal Antibody
MAB368	RAT ANTI-DOPAMINE TRANSPORTER MONOCLONAL ANTIBODY
MAB373	MOUSE ANTI-CRANIN (DYSTROGLYCAN) MONOCLONAL ANTIBODY
MAB378	MOUSE ANTI-MAP2 a & b MONOCLONAL ANTIBODY
MAB380	MOUSE ANTI-BETA TUBULIN MONOCLONAL ANTIBODY
MAB3822	MOUSE ANTI-EZRIN MONOCLONAL ANTIBODY
MAB382-K	MOUSE ANTI-MYELIN BASIC PROTEIN (MBP) (129-138) MONOCLONAL ANTIBODY
MAB384-1ML	MOUSE ANTI-MYELIN BASIC PROTEIN (MBP) (67-74) MONOCLONAL ANTIBODY
MAB384-K	MOUSE ANTI-MYELIN BASIC PROTEIN (MBP) (67-74) MONOCLONAL ANTIBODY
MAB3856	MOUSE ANTI-POLYPYRIMIDINE TRACK BINDING PROTEIN MONOCLONAL ANTIBODY
MAB386-K	RAT ANTI-MYELIN BASIC PROTEIN (MBP) (82-87 Region) MONOCLONAL ANTIBODY
MAB387-K	MOUSE ANTI-MYELIN BASIC PROTEIN (MBP) (84-89) MONOCLONAL ANTIBODY
MAB388	MOUSE ANTI-MYELIN PROTEOLIPID PROTEIN (PLP) MONOCLONAL ANTIBODY
MAB389	MOUSE ANTI-MYELIN BASIC PROTEIN (MBP) (82-91) MONOCLONAL ANTIBODY
MAB389-K	MOUSE ANTI-MYELIN BASIC PROTEIN (MBP) (80-91) MONOCLONAL ANTIBODY
MAB395	RAT ANTI-MYELIN BASIC PROTEIN (MBP) (36-50) MONOCLONAL ANTIBODY
MAB400-45/6	MOUSE ANTI-HUMAN GAMMA INTERFERON MONOCLONAL ANTIBODY
MAB4074	MOUSE ANTI-EMA (Epithelial Mucin Antigen) (Mc5) MONOCLONAL ANTIBODY
MAB4078	MOUSE ANTI-PCNA (Proliferating Cell Nuclear Antigen) MONOCLONAL ANTIBODY
MAB422	MOUSE ANTI-HUMAN CATHEPSIN-D MONOCLONAL ANTIBODY
MAB429	MOUSE ANTI-PROGESTERONE RECEPTOR MONOCLONAL ANTIBODY

MAB433 MOUSE ANTI-ESTROGEN RECEPTOR MONOCLONAL ANTIBODY
MAB439 MOUSE ANTI-RETINOBLASTOMA GENE PROTEIN (Rb) MONOCLONAL ANTIBODY
MAB448 MOUSE ANTI- P-GLYCOPROTEIN MONOCLONAL ANTIBODY
MAB458P-K MOUSE ANTI-HEPARAN SULFATE PROTEOGLYCAN (HSPG) MONOCLONAL ANTIBODY
MAB515 MOUSE ANTI-DIGOXIN MONOCLONAL ANTIBODY
MAB524 MOUSE ANTI-LIDOCAINE MONOCLONAL ANTIBODY
MAB5432 MOUSE ANTI-CREB MONOCLONAL ANTIBODY
MAB5436 MOUSE ANTI-OCT-2 MONOCLONAL ANTIBODY
MAB5454 MOUSE ANTI-MERLIN MONOCLONAL ANTIBODY
MAB5504 MOUSE ANTI-VGLUT2 MONOCLONAL ANTIBODY
MAB5518 MOUSE ANTI- OLIGOPHRENIN MONOCLONAL ANTIBODY
MAB560-96/11 MOUSE ANTI-VALPROATE MONOCLONAL ANTIBODY
MAB6021 MOUSE ANTI-RAT CYTOCHROME P450 ALDOSTERONE SYNTHASE (CYP11B2) MONOCLONAL ANTIBODY
MAB8052-K MOUSE ANTI-ADENOVIRUS MONOCLONAL ANTIBODY
MAB8121-K MOUSE ANTI-CYTOMEGALOVIRUS (Blend) MONOCLONAL ANTIBODY
MAB8251-K MOUSE ANTI-INFLUENZA A MONOCLONAL ANTIBODY
MAB834-3-K MOUSE ANTI-PARAINFLUENZA I MONOCLONAL ANTIBODY
MAB836-2 MOUSE ANTI-FELINE LEUKEMIA VIRUS (FELV) MONOCLONAL ANTIBODY
MAB844-3-K MOUSE ANTI-PARAINFLUENZA 2 (Blend) MONOCLONAL ANTIBODY
MAB855-3-K MOUSE ANTI-PARAINFLUENZA III MONOCLONAL ANTIBODY
MAB858-1 MOUSE ANTI-RESPIRATORY SYNCYTIAL VIRUS (RSV) MONOCLONAL ANTIBODY
MAB8614 MOUSE ANTI-VARICELLA ZOSTER MONOCLONAL ANTIBODY
MAB8740 MOUSE ANTI-HUMAN PAPILLOMA VIRUS 11 MONOCLONAL ANTIBODY
MAB8780 MOUSE ANTI PARAINFLUENZA 4 MONOCLONAL ANTIBODY
MAB8781 MOUSE ANTI PARAINFLUENZA 4 MONOCLONAL ANTIBODY
MAB8782 MOUSE ANTI-PARAINFLUENZA 4 MONOCLONAL ANTIBODY
MAB896 MOUSE ANTI-FELINE LEUKEMIA VIRUS MONOCLONAL ANTIBODY
MAB952 MOUSE ANTI-BORRELIA BURGDORFERI MONOCLONAL ANTIBODY
MAB4036 MOUSE ANTI-p53 ONCOPROTEIN MONOCLONAL ANTIBODY
MAB030 MOUSE ANTI-DOUBLE STRANDED DNA MONOCLONAL ANTIBODY
MAB1343 MOUSE ANTI-HUMAN COLLAGEN TYPE III MONOCLONAL ANTIBODY
MAB1360 RAT ANTI-VITAMIN D RECEPTOR MONOCLONAL ANTIBODY
MAB1401 MOUSE ANTI-RAT INTERLEUKIN II RECEPTOR MONOCLONAL ANTIBODY
MAB1402 MOUSE ANTI-RAT CD2 (LFA-2) (THYMOCYTES AND T LYMPHOCYTES) MONOCLONAL ANTIBODY
MAB1420 MOUSE ANTI-RAT THYMOCYTE AND T CELLS (CD5) MONOCLONAL ANTIBODY
MAB1441 MOUSE ANTI-RAT MHC I MONOCLONAL ANTIBODY
MAB1451 MOUSE ANTI-RAT TRANSFERRIN RECEPTOR MONOCLONAL ANTIBODY

MAB1463 MOUSE ANTI-TRYPSIN/TRYPsinOGEN MONOCLONAL ANTIBODY
MAB1488 MOUSE ANTI-RAT INTEGRIN α 6 β 1 MONOCLONAL ANTIBODY
MAB1535 MOUSE ANTI-TYPE III HEXOKINASE MONOCLONAL ANTIBODY
MAB1541 MOUSE ANTI-DYSTROPHIN, SKELETAL MUSCLE MONOCLONAL ANTIBODY
MAB1549 MOUSE ANTI- MYOSIN, SKELETAL MUSCLE HEAVY CHAIN MONOCLONAL ANTIBODY
MAB1553 MOUSE ANTI-TITIN MONOCLONAL ANTIBODY
MAB1563-K RAT ANTI-PRESENILIN-1 MONOCLONAL ANTIBODY
MAB1605 MOUSE ANTI-KERATIN 10 MONOCLONAL ANTIBODY
MAB1831 MOUSE ANTI RAT DENDRITIC CELLS MONOCLONAL ANTIBODY
MAB1843 MOUSE ANTI HUMAN TROPHOBLAST PROTEIN MONOCLONAL ANTIBODY
MAB1856 RAT ANTI MOUSE CD4 MONOCLONAL ANTIBODY
MAB1903 RAT ANTI-MOUSE LAMININ A CHAIN MONOCLONAL ANTIBODY
MAB1919 MOUSE ANTI-FIBRILLIN MONOCLONAL ANTIBODY
MAB1955 MOUSE ANTI-HUMAN INTEGRIN α 4 MONOCLONAL ANTIBODY
MAB1987 MOUSE ANTI-HUMAN INTEGRIN β 1 MONOCLONAL ANTIBODY
MAB2064 MOUSE ANTI HUMAN CD11c MONOCLONAL ANTIBODY
MAB2085 MOUSE ANTI- α -CATENIN (hmp-1 protein) MONOCLONAL ANTIBODY
MAB2130 MOUSE ANTI-HUMAN CD54 (ICAM-1) MONOCLONAL ANTIBODY
MAB2243 MOUSE ANTI HUMAN CD106 MONOCLONAL ANTIBODY
MAB2257 MOUSE ANTI HUMAN CD49c MONOCLONAL ANTIBODY
MAB2515 MOUSE ANTI TYPE III COLLAGEN MONOCLONAL ANTIBODY
MAB3071 MOUSE ANTI-Goa MONOCLONAL ANTIBODY
MAB3075 MOUSE ANTI-Gia-1 MONOCLONAL ANTIBODY
MAB3192 MOUSE ANTI-POLY (ADP-RIBOSE) MONOCLONAL ANTIBODY
MAB3202 MOUSE ANTI-PI 3 KINASE (p85 ALPHA SUBUNIT) MONOCLONAL ANTIBODY
MAB3212 MOUSE ANTI-HUMAN LAMIN A MONOCLONAL ANTIBODY
MAB3232 MOUSE ANTI-CYTOKERATIN 14 MONOCLONAL ANTIBODY
MAB3757 MOUSE ANTI-VEGF RECEPTOR-3 MONOCLONAL ANTIBODY
MAB3820 MOUSE ANTI-EZRIN MONOCLONAL ANTIBODY
MAB3834 MOUSE ANTI-POLYHISTIDINE TAG MONOCLONAL ANTIBODY
MAB4032 MOUSE ANTI-p53 ONCOPROTEIN MONOCLONAL ANTIBODY
MAB4751-K MOUSE ANTI-PROSTATIC ACID PHOSPHATASE (PAP) MONOCLONAL ANTIBODY
MAB4752-K MOUSE ANTI-PROSTATIC ACID PHOSPHATASE (PAP) MONOCLONAL ANTIBODY
MAB5400 MOUSE ANTI-STEP MONOCLONAL ANTIBODY
MAB5402 MOUSE ANTI-DYNAMIN 1 MONOCLONAL ANTIBODY
MAB5404 MOUSE ANTI-NITROTYROSINE MONOCLONAL ANTIBODY
MAB5406 MOUSE ANTI-GAD67 MONOCLONAL ANTIBODY
MAB5406-50UG MOUSE ANTI-GAD67 MONOCLONAL ANTIBODY

MAB5420	MOUSE ANTI-HIGH AFFINITY CHOLINE TRANSPORTER MONOCLONAL ANTIBODY
MAB6020	MOUSE ANTI-RAT P450 11b-HYDROXYLASE MONOCLONAL ANTIBODY
MAB6022	MOUSE ANTI-RAT CYTOCHROME P450 21-HYDROXYLASE MONOCLONAL ANTIBODY
MAB8562	MOUSE ANTI-POLIOVIRUS 2 MONOCLONAL ANTIBODY
MAB8661	MOUSE ANTI-INFLUENZA B MONOCLONAL ANTIBODY
AB10080	RABBIT ANTI- CYP450 2E1 POLYCLONAL ANTIBODY
06-497	ANTIP13 KINASE, P85 POLYCLONAL ANTIBODY
MAB5406	GAD 67, MSX-100UG
MAB8251-KC	Influ A, MS x, Glend - (KC) - ML
MAB8661-K	INFLU B, MS X, BLEND mL
MAB8661-KC	Influ B, MS X, Blend (KC) ML
MAB855-1P-K	PARA 3, MSX
MAB855-2-K	PARA 3, MOUSE
MAB855-2-KC	Para 3, Mouse
MAB855-2P-KC	PARA 3, MSX PURIFIED

Training Advice: Seek effective chemical handling training to reduce the hazards associated with this product prior to use.

Technical Contact: <http://www.millipore.com/support>

Abbreviations Used

ACGIH	American Conference of Government Industrial Hygienists
ADR	European agreement on the international carriage of dangerous goods on road
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EPA	United States Environmental Protection Agency
IARC	International Agency for Research in Cancer.
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	Regulations regarding the transportation of dangerous goods on ocean-going vessels issued by the International Maritime Organization.
LC ₅₀	Lethal Concentration 50% is the concentration of a chemical which kills 50% of a sample population
LD ₅₀	Lethal Dose 50% is the dose of a chemical which kills 50% of a sample population.
LDLo	Lowest observed lethal dose
LEL	Lower Explosive Limit
MSFU	Manufacture, Formulation, Supply and Use (Section 13)
NIOSH	National Institute of Occupational Safety and Health (US)
NTP	National Toxicology Program (US)
OSHA	United States Occupational Safety and Health Administration
RID	International regulations concerning the international carriage of dangerous goods by rail.
RTECS	Registry of Toxic Effects of Chemical Substances (US)
STOST	Specific Target Organ Systemic Toxicity
UEL	Upper Explosive Limit

WHMIS Workplace Hazardous Materials Information System (Canada)

This safety data sheet has been prepared to comply with the requirements of the European Union regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) 1906/2006 and ANSI standard Z400.1-1998.

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¹ Centers for Disease Control and Prevention, 1600 Clifton Rd, Atlanta, GA 30333, USA, National Institute for Occupational Health and Safety (NIOSH), Registry of Toxic Effects of Chemical Substances (RTECS) File # VY8050000, 2009.

² Hughes, J.S., Use of the Red Crawfish, *Procambarus clarki* (Girard), for Herbicidal Assays, Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm. 20:437-439, 1967.

³ Mayer, F.L.Jr., and M.R. Ellersieck, Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals, Resour. Publ. No. 160, U.S. Dep. Interior, Fish Wildl. Serv., Washington, DC :505 p. (USGS Data File), 1986.

⁴ USEPA; Chemical Hazard Information Profile: Sodium Azide p.242 (1977) EPA-560/11-80-011.

⁵ Weed Science Society of America. Herbicide Handbook. 5th ed. Champaign, Illinois: Weed Science Society of America, 1983., p. 440.