



## Material Safety Data Sheet


**MSDS/SDS Number:** 00000011MSDS  
**Latest Revision Date:** January 17, 2011  
**Revision:** A

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

**Product Name:** Precipitating Reagent.  
**Catalogue Number(s):** See Section 16.  
**Chemical Name:** Aqueous solution containing [Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated], Ethylenediaminetetraacetic Acid Tetrasodium Salt Hydrate, Sodium Phosphate Dibasic Heptahydrate, Potassium Dihydrogenorthophosphate, Sodium Chloride, Sodium Azide, Proprietary Ingredients and Goat anti-Rabbit IgG Serum.  
**Synonyms:** None.  
**Intended Product Use:** Intended for research use only.  
**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:** 2A: Serious Eye Damage/irritation  
2: Skin Corrosion/Irritation

**Signal Word:** Warning


**Hazard Statement:** H315+H320: Causes skin and eye irritation.

#### GHS Precautionary Statements:

**Prevention:** P264: Wash hands thoroughly after handling.  
P281: Use personal protective equipment as required.

- Response:** P308+P313: If exposed or concerned: Get medical advice/attention.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
 P362: Take off contaminated clothing and wash before reuse.
- 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:** Xi  
**Hazard:** Irritant  
**Risk Phrase:** R36/38: Irritating to eyes and skin.

## 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*** †
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated:	500-038-2	25322-68-3	< 3 %	N/A	N/A
Ethylenediaminetetraacetic Acid Tetrasodium Salt Hydrate:	200-573-9	13235-36-4	1 %	Xn	R22 R41
Sodium Phosphate Dibasic Heptahydrate:	Not Listed	7782-85-6	< 1 %	N/A	N/A
Potassium Dihydrogenorthophosphate:	231-913-4	7778-77-0	< 1 %	N/A	N/A
Sodium Chloride:	231-598-3	7647-14-5	< 1 %	N/A	N/A
Sodium Azide:	247-852-1	26628-22-8	< 0.1 %	T+ N	R28 R32 R50/51

**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
Proprietary Ingredients:	Mixture	Mixture	Proprietary	N/A	N/A
Goat anti-Rabbit IgG Serum:	Not Listed	Not Listed	Proprietary	N/A	N/A

Water: 231-791-2 7732-18-5 < 95 % 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** = Highly 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

	<b>Treatment Measures:</b>	<b>Symptoms of Exposure:</b>
<b>Contact with Eyes:</b>	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, burning sensation, redness and lacrimation.
<b>Ingestion:</b>	Seek medical attention immediately. Never give an unconscious person anything by mouth.	Possible gastrointestinal irritation causing nausea and vomiting.
<b>Inhalation:</b>	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.
<b>Skin Contact:</b>	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 and dermatitis after repeated exposure.

## SECTION 5 FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Use extinguishing media appropriate for the surrounding fire. This product is compatible with commercially available extinguishing media.
<b>Special Protective Equipment for Firefighters:</b>	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

<b>Personal Precautions:</b>	Wear chemical resistant boots, clothing, eye protection, and gloves to prevent skin contact (See Section 8).
<b>Small Spills:</b>	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

<b>Exposure Limit Values:</b>	OSHA PEL	NIOSH REL	ACGIH TLV	Other
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated:	Not Listed	Not Listed	Not Listed	None
Ethylenediaminetetraacetic Acid Tetrasodium Salt Hydrate:	Not Listed	Not Listed	Not Listed	None
Sodium Phosphate Dibasic Heptahydrate:	Not Listed	Not Listed	Not Listed	None
Potassium Dihydrogenorthophosphate:	Not Listed	Not Listed	Not Listed	See Below
Russia:	STEL 10 mg/m <sup>3</sup> , JUN2003			
Sodium Chloride:	Not Listed	Not Listed	Not Listed	See Below
Russia:	OEL-STEL 5 mg/m <sup>3</sup> , JUN2003			
Sodium Azide:	Not Listed	Ceiling 0.3 mg/m <sup>3</sup> [Skin]	Ceiling 0.29 mg/m <sup>3</sup> [Skin]; A4 Not classifiable as a human carcinogen.	See Below
Australia:	Ceiling 0.11 ppm (0.3 mg/m <sup>3</sup> ), JUL2008			
Belgium:	TWA 0.1 mg/m <sup>3</sup> , STEL 0.3 mg/m <sup>3</sup> , Skin, MAR2002			
Denmark:	TWA 0.1 mg/m <sup>3</sup> , OCT 2002			
E.C.:	TWA 0.1 mg/m <sup>3</sup> ; STEL 0.3 mg/m <sup>3</sup> (skin), FEB 2006			
Finland:	TWA 0.1 ppm (0.3 mg/m <sup>3</sup> ), STEL 0.3 ppm (0.9 mg/m <sup>3</sup> ), JAN1999			
France:	VME 0.1 mg/m <sup>3</sup> , VLE 0.3 mg/m <sup>3</sup> , Skin, FEB2006			
Germany:	MAK 0.2 mg/m <sup>3</sup> (inhalable), 2005			
Hungry:	TWA 0.1 mg/m <sup>3</sup> , STEL 0.3 mg/m <sup>3</sup> , SEP2000			

Korea:	Ceiling 0.1 ppm (0.3 mg/m <sup>3</sup> ), 2006
The Netherlands:	MAC-TGG 0.1 mg/m <sup>3</sup> , Skin, 2003
New Zealand:	Ceiling 0.11 ppm (0.29 mg/m <sup>3</sup> ), JAN2002
Sweden:	TWA 0.1 mg/m <sup>3</sup> ; STEL 0.3 mg/m <sup>3</sup> , Skin, JUN2005
Switzerland:	MAK- week 0.2 mg/m <sup>3</sup> ,KZG- week 0.4e mg/m <sup>3</sup> , DEC2006
United Kingdom:	TWA 0.1 mg/m <sup>3</sup> ; STEL 0.3 mg/m <sup>3</sup> (skin), 2005

	<b>Normal Handling Conditions</b>	<b>Emergency Response Conditions</b>
<b>Engineering Controls:</b>	General room ventilation is adequate for the use of this product.	Provide negative pressure ventilation.
<b>Respiratory Protection</b>	Use appropriate respiratory protection.	Use appropriate respiratory protection.
<b>Eye Protection:</b>	Safety glasses with side shields.	Chemical splash goggles or other face protection as appropriate.
<b>Skin Protection:</b>	Laboratory coat, adequate chemical-resistant gloves.	Chemically resistant boots, clothes, and impermeable gloves as appropriate.
<b>Environmental Exposure Controls:</b>	Not Available.	Not Available.
<b>Other Equipment:</b>	Safety shower, eyewash stations, and hand washing equipment should be available close to the work area as needed.	

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear Colorless Liquid	
<b>Odor:</b>	Not Available	
<b>Odor Threshold:</b>	Not Available	
<b>pH:</b>	Not Available	
<b>Melting Point/Freezing Point:</b>	Essentially that of Water	
<b>Initial Boiling Point and Boiling Range:</b>	Essentially that of Water	
<b>Flash Point:</b>	Not Available	
<b>Evaporation Rate, 20 °C:</b>	Not Available	
<b>Flammability (Solid/Gas):</b>	Not Available	
<b>Explosive Limits:</b>	LEL: Not Available	UEL: Not Available
<b>Vapor Pressure:</b>	Not Available	
<b>Vapor Density, 20 °C:</b>	Not Available	
<b>Relative Density (Water = 1.0):</b>	Essentially that of Water	
<b>Solubility:</b>	Soluble	
<b>Partition Coefficient (n-octanol/water):</b>	Not Available	

<b>Auto Ignition Temperature (ASTM D1929):</b>	Not Available
<b>Decomposition Temperature:</b>	Not Available
<b>Oxidizing Properties:</b>	None
<b>Viscosity, Centipoise:</b>	Not Available

## SECTION 10 STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Product is stable under normal operating conditions and use as described in the product technical data sheet.
<b>Conditions to Avoid:</b>	See product technical data sheet for details.
<b>Incompatible Materials to Avoid:</b>	Strong acids or bases, strong oxidizers, and extreme temperatures.
<b>Hazardous Decomposition Products:</b>	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.

Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, Ethoxylated: RTECS #TQ3500000; TQ3520000; TQ3560000; TQ3580000; TQ3600000; TQ3610000; TQ3620000; TQ3630000; TQ3650000; TQ3675000; TQ3700000; TQ3800000; TQ3850000; TQ4025000; TQ4026000; TQ4027000; TQ4028000; TQ4030000; TQ4040000; TQ4041000; TQ4050000; TQ4070000; TQ4100000; TQ4105000; TQ4110000; TQ4950000; TQ5090000; TR1579850; ZD2465300  
 Ethylenediaminetetraacetic Acid Tetrasodium Salt Hydrate: RTECS AH5075000  
 Sodium Phosphate Dibasic Heptahydrate: RTECS #WC4600000  
 Potassium Dihydrogenorthophosphate: RTECS #TC6615500  
 Sodium Chloride: #VZ4725000  
 Sodium Azide: #VY8050000

	<b>Toxicity Test</b>	<b>Exposure Route</b>	<b>Dose</b>	<b>Observed Effect</b>
<b>Acute Toxicity:</b>				
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, Ethoxylated:	LD <sub>50</sub> (Rat)	Oral	600 mg/kg	N/A <sup>1</sup>
	LD <sub>50</sub> (Rat)	Oral	1,054 mg/kg	N/A <sup>2</sup>
	LD <sub>50</sub> (Rat)	Oral	27,000 mg/kg	N/A <sup>3</sup>
	LD <sub>50</sub> (Rat)	Intravenous	7,130 mg/kg	N/A <sup>3</sup>
	LD <sub>50</sub> (Rat)	Subcutaneous	16,000 mg/kg	N/A <sup>3</sup>

Ethylenediaminetetraacetic Acid Tetrasodium Salt Hydrate:	LD <sub>50</sub> (Rat)	Oral	630 mg/kg	N/A <sup>4</sup>
	LD <sub>50</sub> (Rat)	Oral	1,260 mg/kg	N/A <sup>4</sup>
Sodium Phosphate Dibasic Heptahydrate:	LD <sub>50</sub> (Rat)	Oral	12,930 mg/kg	N/A <sup>5</sup>
Potassium Dihydrogenorthophosphate:	Lowest Published Lethal Dose (Rat)	Oral	4,640 mg/kg	N/A <sup>6</sup>
	LD <sub>50</sub> (Rabbit)	Skin	>4,640 mg/kg	N/A <sup>6</sup>
Sodium Chloride:	LD <sub>50</sub> (Rat)	Oral	3,000 mg/kg	N/A <sup>7</sup>
Sodium Azide:	LC <sub>50</sub> (Rat)	Inhalation	37 mg/m <sup>3</sup>	Eye: Other eye effects Behavioral: Convulsions or effect on seizure threshold Lung, Thorax, or Respiration: Structural or functional change in trachea or bronchi <sup>8</sup>
	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 <sup>8</sup>
	LD <sub>50</sub> (Rat)	Oral	27 mg/kg	N/A <sup>8</sup>
	LD <sub>50</sub> (Rat)	Subcutaneous	23 mg/kg	N/A <sup>8</sup>
	LD <sub>50</sub> (Rabbit)	Skin	20 mg/kg	N/A <sup>8</sup>
<b>Skin Corrosion/Irritation:</b>				
Ethylenediaminetetraacetic Acid Tetrasodium Salt Hydrate:	Skin Irritation (Rabbit)	Skin	500 mg/24 hour	Moderate <sup>4</sup>
Sodium Chloride:	Skin Irritation (Rabbit)	Skin	500 mg/24H	Mild <sup>7</sup>
<b>Serious Eye Damage/Eye Irritation:</b>				
Ethylenediaminetetraacetic Acid Tetrasodium Salt Hydrate:	Eye Irritation (Rabbit)	Eye	100 mg/24 hour	Moderate <sup>4</sup>
Sodium Chloride:	Eye Irritation (Rabbit)	Eye	100 mg/24H	Moderate <sup>7</sup>
<b>Respiratory or Skin Sensitization:</b>	Not Available			
<b>Germ Cell Mutagenicity:</b>	Not Available			
<b>Reproductive Toxicity:</b>	Not Available			
<b>STOST-Single Exposure:</b>	Not Available			

<b>STOST-Repeated Exposure:</b>	Not Available		
<b>Aspiration Hazard:</b>	Not Available		
<b>Carcinogenicity:</b>	Carcinogenetic information for this product as a whole does not exist, below is data for the individual components.		
<b>Research Agency:</b>	OSHA:	NTP:	IARC:
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, Ethoxylated:	Not Listed	Not Listed	Not Listed
Ethylenediaminetetraacetic Acid Tetrasodium Salt Hydrate:	Not Listed	Not Listed	Not Listed
Sodium Phosphate Dibasic Heptahydrate:	Not Listed	Not Listed	Not Listed
Potassium Dihydrogenorthophosphate:	Not Listed	Not Listed	Not Listed
Sodium Chloride:	Not Listed	Not Listed	Not Listed
Sodium Azide:	Not Listed	Not Listed	Not Listed

## SECTION 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Ecotoxicity information for this product as a whole does not exist, below is data for the individual components.		
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, Ethoxylated:	LC <sub>50</sub> Salmo Salar 24 Hours 1,000,000 ug/L <sup>9</sup>		
	LC <sub>50</sub> Salmo Salar 24 Hours 1,000,000 ug/L <sup>9</sup>		
	LC <sub>50</sub> Salmo Salar 24 Hours 1,000,000 ug/L <sup>9</sup>		
Ethylenediaminetetraacetic Acid Tetrasodium Salt Hydrate:	Not Available.		
Sodium Phosphate Dibasic Heptahydrate:	Not Available.		
Potassium Dihydrogenorthophosphate:	LC <sub>50</sub> Dreissena Polymorpha 24 Hours 92,000 ug/L <sup>10</sup>		
	LC <sub>50</sub> Dreissena Polymorpha 24 Hours 137,000 ug/L <sup>10</sup>		
	LC <sub>50</sub> Dreissena Polymorpha 24 Hours 169,000 ug/L <sup>10</sup>		
Sodium Chloride:	LC <sub>50</sub> Carassius Auratus 24 Hours 9,800,000 ug/L <sup>11</sup>		
	LC <sub>50</sub> Carassius Auratus 48 Hours 7,200,000 ug/L <sup>11</sup>		
	LC <sub>50</sub> Carassius Auratus 96 Hours 7,050,000 ug/L <sup>11</sup>		
Sodium Azide:	LC <sub>50</sub> Lepomis Macrochirus 24 Hours 1,800 ug/L <sup>12</sup>		
	LC <sub>50</sub> Lepomis Macrochirus 48 Hours 800.0 ug/L <sup>12</sup>		
	LC <sub>50</sub> Lepomis Macrochirus 96 Hours 680.0 ug/L <sup>13</sup>		
<b>Mobility:</b>			
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. <sup>14</sup>		

**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.<sup>15</sup>

**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: D2B.

**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.  
Xi: Irritant.  
Xn: Harmful.

Risk Phrases: R22: Harmful if swallowed.  
R28: Very toxic if swallowed.  
R32: Contact with acids liberates very

toxic gas.

R36/38: Irritating to eyes and skin.

R41: Risk of serious damage to eyes.

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:** [Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated], Potassium Dihydrogenorthophosphate, Sodium Chloride and 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:**

PR-81HK Precipitating Reagent, 120 mL.

PR-UVHK Precipitating Reagent, 130 mL.

PR-UV Precipitating Reagent, 260 mL.

PR-81 Precipitating Reagent, 260 mL.

**Component of Kit Number: Product Name:**

HL-81HK Human Leptin RIA

GHRT-89HK Human Ghrelin (TOTAL) RIA

GLP1T-36HK Glucagon Like Peptide-1 (Total) RIA

HADP-61HK Human Adiponectin RIA

MADP-60HK Mouse Adiponectin RIA

RMPYY-68HK Rat/Mouse PYY RIA

HI-11K Ultra Sensitive Human Insulin RIA

HI-14K Human Insulin-Specific RIA

GL-32K Glucagon RIA

HCP-20K	Human C-Peptide RIA
SRI-13K	Sensitive Rat Insulin RIA
XL-85K	Multi-Species Leptin RIA
RL-83K	Rat Leptin RIA
RCP-21K	Rat C-Peptide RIA
RI-13K	Rat Insulin RIA
PCP-22K	Porcine C-Peptide RIA
PI-12K	Porcine Insulin RIA
LPI-16K	LisPro Insulin RIA
GHRA-88HK	Human Ghrelin (ACTIVE) RIA
GLP1A-35HK	Glucagon Like Peptide-1 (Active) RIA
CCP-24HK	Canine C-Peptide RIA
PYY-67HK	Human PYY (3-36) Specific RIA
PYYT-66HK	Human PYY (Total) RIA
MRLMB-97HK	Mouse RELM-beta RIA 125 Tube Kit <1.5uCi
RVFTN52HK	Rat Visfatin RIA 125 Tube Kit < 1.5 uCi
HL-81HK	Human Leptin RIA
HL-81FK	Human Leptin RIA 250 Tube Kit (French) < 3uCi
HL-81FHK	Human Leptin RIA 125 Tube Kit (French) <1.5 uCi
ML-82K	Mouse Leptin RIA
HCP-20K	Human C-Peptide RIA
SRI-13K	Sensitive Rat Insulin RIA
GL-32K	Glucagon RIA
HI-14K	Ultra Sensitive Human Insulin RIA
HADP-61HK	Human Adiponectin RIA
RGH-45HK	Rat Growth Hormone RIA
GLP1A-35HK	Glucagon Like Peptide-1 (Active) RIA

**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 <sub>50</sub>	Lethal Concentration 50% is the concentration of a chemical which kills 50% of a sample population
LD <sub>50</sub>	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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<sup>1</sup> Dow Chemical Company Reports. Vol. MSD-94, U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894, 2010.

<sup>2</sup> Dow Chemical Company Reports. Vol. MSD-95, U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894, 2010.

<sup>3</sup> <http://toxnet.nlm.nih.gov/cgi-bin/sis/search/r?dbs+hsdb:@term+@rn+@rel+25322-68-3>, U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894, 2010.

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<sup>5</sup> 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 #WC4600000, 2009.

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<sup>15</sup> Weed Science Society of America. *Herbicide Handbook*. 5th ed. Champaign, Illinois: Weed Science Society of America, 1983., p. 440.