

10/12/2015

KIT COMPONENTS

| Product code | Product name |
|---------------------|----------------------------|
| 414321F 414322F | N-Histofine MOUSESTAIN KIT |

| SDS-ID | Component name |
|---------------|--|
| F-1008 | Blocking reagent A in MOUSESTAIN KIT |
| F-1007 | Blocking reagent B in MOUSESTAIN KIT |
| F-1005 | Labeled polymer (Simple Stain Mouse MAX PO (M)) |

Safety Data Sheet

Material Name: Blocking reagent A in MOUSESTAIN KIT

SDS ID: F-1008
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Section 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier:

Product Identifier: Blocking reagent A

(**N**-Histofine MOUSESTAIN KIT)

Product code: 414321F, 414322F Substance Registration Number(s)

This product and its components are not subject to REACH.

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Identified Uses

immunohistochemical use

Reagent type: Bottle

414321F: **N**-Histofine MOUSESTAIN KIT; Vial 1 blocking reagent A; 6 ml x 1

414322F: **N**-Histofine MOUSESTAIN KIT; Vial 1 blocking reagent A; 17 ml x 3

Uses Advised Against

Use in accordance with supplier's recommendations.

1.3 Details of the supplier of the safety data sheet

Nichirei Biosciences Inc.
6-19-20, Tsukiji, Chuo-Ku
Tokyo, Japan

Telephone number: +81-3-3248-2207
Email: yasudakzh@nichirei.co.jp

1.4 Emergency Telephone Number

+81-3-3248-2207 (9:00-17:00 Japan time)

Section 2 - HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008

No classification is assigned, based on classification criteria. Review the entire data sheet for any additional information which did not result in a GHS classification.

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008:

Symbol(s)

None needed according to classification criteria.

Signal Word

None needed according to classification criteria.

Hazard Statement(s)

None needed according to classification criteria.

Precautionary Statement(s)

Prevention

None needed according to classification criteria.

Response

None needed according to classification criteria.

Safety Data Sheet

Material Name: Blocking reagent A in MOUSESTAIN KIT

SDS ID: F-1008
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Storage

None needed according to classification criteria.

Disposal

Dispose in accordance with all applicable regulations.

2.3 Other Hazards

No additional information is available.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| CAS EC No Registration No | Component Synonyms | 1272/2008 (CLP) | Percent |
|---------------------------------|-------------------------------------|---|---------|
| Not Available -- -- | Aqueous protein containing solution | -- | >99.9 |
| 26628-22-8 247-852-1 -- | Sodium azide | Acute Tox. 2 (Oral) H300 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 EU Acid VTox EUH032 | <0.1 |

Section 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation

If adverse effects occur, remove to uncontaminated area. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention.

Skin

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Ingestion

If swallowed, get medical attention.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

Acute

No information on significant adverse effects.

Delayed

No information on significant adverse effects.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

Safety Data Sheet

Material Name: Blocking reagent A in MOUSESTAIN KIT

SDS ID: F-1008
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

5.1 Extinguishing Media

Use extinguishing agents appropriate for surrounding fire.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

5.2 Special Hazards Arising from the Substance or Mixture

Negligible fire hazard.

Thermal Decomposition Products

Combustion: miscellaneous decomposition products

5.3 Advice for Firefighters

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out.

Protective Equipment and Precautions for Firefighters

Wear personal protective clothing and equipment such as self-contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

6.2 Environmental Precautions

Avoid release to the environment.

6.3 Methods and Material for Containment and Cleaning up

Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Keep unnecessary people away, isolate hazard area and deny entry.

6.4 Reference to Other Sections

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

Section 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Avoid breathing vapor or mist. Avoid contact with skin and eyes. Wash thoroughly after handling.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Store and handle in accordance with all current regulations and standards.

7.3 Specific End Use(s)

immunohistochemical use

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Component Exposure Limits

Sodium azide (26628-22-8)

EU (IOELV): 0.1 mg/m³ TWA
0.3 mg/m³ STEL
Possibility of significant uptake through the skin

Austria: 0.1 mg/m³ TWA [TMW]
0.3 mg/m³ STEL [KZW] (4 X 15 min)
skin notation

Safety Data Sheet

Material Name: Blocking reagent A in MOUSESTAIN KIT

SDS ID: F-1008
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

| | |
|------------------------|--|
| Belgium: | Skin |
| Bulgaria: | 0.1 mg/m3 TWA 0.3 mg/m3 STEL Skin notation |
| Croatia: | 0.1 mg/m3 TWA [GVI] 0.3 mg/m3 STEL [KGVII] Skin Notation |
| Denmark: | 0.1 mg/m3 TWA Potential for cutaneous absorption |
| Estonia: | 0.1 mg/m3 TWA 0.3 mg/m3 STEL Skin notation |
| Finland: | 0.1 mg/m3 TWA 0.3 mg/m3 STEL Potential for cutaneous absorption |
| France: | 0.1 mg/m3 TWA [VME] (restrictive limit) 0.3 mg/m3 STEL [VLCT] (restrictive limit) Risk of cutaneous absorption |
| Germany (TRGS): | 0.2 mg/m3 TWA AGW (exposure factor 2) |
| Gibraltar: | Skin notation 0.3 mg/m3 STEL 0.1 mg/m3 TWA |
| Germany (DFG): | 0.2 mg/m3 TWA MAK (inhalable fraction) 0.4 mg/m3 Peak (inhalable fraction) |
| Greece: | 0.1 ppm TWA; 0.3 mg/m3 TWA 0.1 ppm STEL; 0.3 mg/m3 STEL |
| Hungary: | 0.1 mg/m3 TWA [AK] 0.3 mg/m3 STEL [CK] |
| Ireland: | 0.1 mg/m3 TWA (as NaN ₃) 0.3 mg/m3 STEL Potential for cutaneous absorption |
| Italy: | 0.1 mg/m3 TWA Media Ponderata nel Tempo 0.3 mg/m3 STEL Breve termine skin - potential for cutaneous absorption |
| Latvia: | 0.1 mg/m3 TWA 0.3 mg/m3 STEL skin - potential for cutaneous exposure |
| Lithuania: | 0.1 mg/m3 TWA [IPRD] 0.3 mg/m3 STEL [TPRD] Skin notation |
| Malta: | 0.1 mg/m3 TWA 0.3 mg/m3 STEL possibility of significant uptake through the skin |
| Netherlands: | 0.1 mg/m3 TWA 0.3 mg/m3 STEL skin notation |
| Poland: | 0.1 mg/m3 TWA [NDS] 0.3 mg/m3 STEL [NDSch] |
| Portugal: | 0.1 mg/m3 TWA [VLE-MP] (indicative limit value) |

Safety Data Sheet

Material Name: Blocking reagent A in MOUSESTAIN KIT

SDS ID: F-1008
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

| | |
|-------------------------|--|
| | 0.3 mg/m3 STEL [VLE-CD] (indicative limit value) |
| | 0.29 mg/m3 Ceiling [VLE-CM] (as NaN ₃); 0.11 ppm Ceiling [VLE-CM] (as Hydrazoic acid, vapor) |
| | skin - potential for cutaneous exposure (indicative limit value) |
| Romania: | 0.1 mg/m3 TWA |
| | 0.3 mg/m3 STEL |
| | Skin notation |
| Slovak Republic: | 0.1 mg/m3 TWA |
| | 0.3 mg/m3 Ceiling |
| | Potential for cutaneous absorption |
| Slovenia: | 0.1 mg/m3 TWA |
| | 0.3 mg/m3 STEL |
| | Potential for cutaneous absorption |
| Spain: | 0.1 mg/m3 TWA [VLA-ED] (indicative limit value) |
| | 0.3 mg/m3 STEL [VLA-EC] |
| | skin - potential for cutaneous exposure |
| Sweden: | 0.1 mg/m3 LLV |
| | 0.3 mg/m3 STV |
| | Skin notation |
| United Kingdom: | 0.1 mg/m3 TWA (as NaN ₃) |
| | 0.3 mg/m3 STEL (as NaN ₃) |
| | Potential for cutaneous absorption |

Component Biological Limit Values

There are no biological limit values for the component(s) of this product.

Derived No Effect Levels (DNELs)

No DNELs available.

Predicted No Effect Concentrations (PNECs)

No PNECs available.

8.2 Exposure Controls

Appropriate Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Personal Protective Equipment

Eye / Face Protection

Wear splash resistant safety glasses. (EN 166) Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing. (EN 340)

Glove Recommendations

Wear appropriate chemical resistant gloves. (EN 374)

Respiratory Protection

If airborne contaminant levels exceed recommended exposure limits, use CEN/EN Standard applicable respiratory protection appropriate for employee exposure levels.

Consult with a health and safety professional for specific respirators appropriate for your use.

Environmental Exposure Controls

Avoid release to the environment.

Safety Data Sheet

Material Name: Blocking reagent A in MOUSESTAIN KIT

SDS ID: F-1008
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

| | | | |
|-----------------------------------|---------------|--------------------------------------|------------------|
| Physical State: | Liquid | Appearance: | colorless liquid |
| Color: | colorless | Physical Form: | liquid |
| Odor: | odorless | Odor Threshold: | Not available |
| pH: | Not available | Melting Point: | Not available |
| Boiling Point: | Not available | Flash Point: | Not available |
| Decomposition Temperature: | Not available | Evaporation Rate: | Not available |
| LEL: | Not available | UEL: | Not available |
| Vapor Pressure: | Not available | Vapor Density (air = 1): | Not available |
| Density: | Not available | Specific Gravity (water = 1): | Not available |
| Water Solubility: | Not available | Log KOW: | Not available |
| Coeff. Water/Oil Dist: | Not available | Auto Ignition Temperature: | Not available |
| Viscosity: | Not available | Oxidizing Properties: | Not available |
| Explosive Properties: | Not available | Flammability (solid, gas): | Not applicable |

9.2 Other Information

No additional information is available.

Section 10 - STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity hazard is expected.

10.2 Chemical Stability

Stable at standard temperatures and pressure.

10.3 Possibility of Hazardous Reactions

Will not polymerize.

10.4 Conditions to Avoid

None known.

10.5 Incompatible Materials

None known.

10.6 Hazardous Decomposition Products

Thermal Decomposition Products

Combustion: miscellaneous decomposition products

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

Sodium azide (26628-22-8)

Oral LD50 Rat 27 mg/kg

Safety Data Sheet

Material Name: Blocking reagent A in MOUSESTAIN KIT

SDS ID: F-1008
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Irritation / Corrosivity

May cause irritation.

Respiratory Sensitisation

No information available for the product.

Skin Sensitisation

No information available for the product.

Germ Cell Mutagenicity

No information available for the product.

Carcinogenicity

Component Carcinogenicity

No information available for the product.

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration Hazard

No information available for the product.

Section 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Component Analysis - Aquatic Toxicity

Sodium azide (26628-22-8)

Fish: 96 Hr LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 Hr LC50 Lepomis macrochirus: 0.7 mg/L; 96 Hr LC50 Pimephales promelas: 5.46 mg/L [flow-through]

12.2 Persistence and Degradability

No information available for the product.

12.3 Bioaccumulative Potential

No information available for the product.

12.4 Mobility in Soil

No information available for the product.

12.5 Results of PBT and vPvB Assessment

No information available.

EU - Interim Strategy for Management of PBT and vPvB Substances (PBT Assessments)

No components of this material are listed.

12.6 Other Adverse Effects

No additional information is available.

Section 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

13.1.1 Product/Packaging Disposal

For disposal within the EC, use the appropriate code according to European Waste Catalogue (EWC).

13.1.2 Waste Treatment Relevant Information

Safety Data Sheet

Material Name: Blocking reagent A in MOUSESTAIN KIT

SDS ID: F-1008
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Dispose in accordance with all applicable regulations.

13.1.3 Sewage Disposal Relevant Information

Prevent entry into sewers, drains, ditches, underground or confined spaces and waterways.

13.1.4 Other Disposal Recommendations

Dispose in accordance with all applicable regulations.

Section 14 - TRANSPORT INFORMATION

Transportation

Not regulated as dangerous goods

International Bulk Chemical Code

This material contains no chemical required by the IBC Code to be identified as dangerous chemicals in bulk

Section 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture

EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorisation

No components of this material are listed.

EU - REACH (1907/2006) - Article 59(1) Candidate List of Substances for Eventual Inclusion in Annex XIV

No components of this material are listed.

EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles

No components of this material are listed.

Germany Regulations

Germany Water Classification

Sodium azide (26628-22-8)

ID Number 636, hazard class 2 - hazard to waters

Denmark Regulations

Environmental Protection Agency List of Undesirable Substances

No components of this material are listed.

Threshold of Exposure Concentrations of VOCs

No components of this material are listed.

France Water Pollution

No components of this material are listed.

Inventory

Substance Analysis - Inventory

| Component | CAS | EEC |
|--------------|------------|-----|
| Sodium azide | 26628-22-8 | EIN |

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the substance/mixture.

Section 16 - OTHER INFORMATION

16.1 Indication of changes

New SDS: 10 December 2015

16.2 Key / Legend to abbreviations and acronyms used in the safety data sheet

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AIHA - American Industrial Hygiene Association; CAS - Chemical Abstracts Service; CERCLA - Comprehensive

Safety Data Sheet

Material Name: Blocking reagent A in MOUSESTAIN KIT

SDS ID: F-1008
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling and Packaging; DNEL - Derived No Effect Level; DOT - Department of Transportation; DSD - Dangerous Substances Directive (67/548/EEC); DSL - Domestic Substances List; EC50 - Effective Concentration, 50%; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; EPA - Environmental Protection Agency; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC Code - International Bulk Chemical Code; IMDG - International Maritime Dangerous Goods; Kow - Octanol/water partition coefficient; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; LEL - Lower Explosive Limit; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; PNEC - Predicted No Effect Concentration; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; WHMIS - Workplace Hazardous Materials Information System

16.3 Key literature references and sources for data

Available upon request

16.4 Methods used for classification of mixture according to Regulation (EC) No 1272/2008

Available upon request

16.5 Full text of H- phrases in Section 3

There is no text of H-phrase.

16.6 Training Advice

Read the Safety Data Sheet before handling product.

16.7 Other Information

Disclaimer: Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

End of Sheet F-1008

Safety Data Sheet

Material Name: Blocking reagent B in MOUSESTAIN KIT

SDS ID: F-1007
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Section 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier:

Product Identifier: Blocking reagent B
(**N**-Histofine MOUSESTAIN KIT)

Product code: 414321F, 414322F

Substance Registration Number(s)

This product and its components are not subject to REACH.

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Identified Uses

immunohistochemical use

Reagent type : Bottle

414321F: **N**-Histofine MOUSESTAIN KIT; Vial 2 blocking reagent B; 6 ml x 1

414322F: **N**-Histofine MOUSESTAIN KIT; Vial 2 blocking reagent B; 17 ml x 3

Uses Advised Against

Use in accordance with supplier's recommendations.

1.3 Details of the supplier of the safety data sheet

Nichirei Biosciences Inc.
6-19-20, Tsukiji, Chuo-Ku
Tokyo, Japan

Telephone number: +81-3-3248-2207
Email: yasudakzh@nichirei.co.jp

1.4 Emergency Telephone Number

+81-3-3248-2207 (9:00-17:00 Japan time)

Section 2 - HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008

Respiratory sensitizer, Category 1

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008:

Symbol(s)



Signal Word

DANGER

Hazard Statement(s)

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled

Precautionary Statement(s)

Prevention

Safety Data Sheet

Material Name: Blocking reagent B in MOUSESTAIN KIT

SDS ID: F-1007
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. **P285** In case of inadequate ventilation wear respiratory protection.

Response

P304+P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. **P342+P311** If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Storage

None needed according to classification criteria.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards

No additional information is available.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| CAS EC No Registration No | Component Synonyms | 1272/2008 (CLP) | Percent |
|---------------------------------|-----------------------|---|---------|
| 7732-18-5 231-791-2 -- | Water | -- | >99.5 |
| 111-30-8 203-856-5 -- | Glutaraldehyde | Acute Tox. 3 (Oral) H301 Acute Inh. Tox. 3 H331 Skin Corr. 1B H314 Resp. Sens. 1 H334 Skin Sens. 1 H317 Aquatic Acute 1 H400 | <0.4 |
| 26628-22-8 247-852-1 -- | Sodium azide | Acute Tox. 2 (Oral) H300 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 EU Acid VTox EUH032 | <0.1 |

Section 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation

If adverse effects occur, remove to uncontaminated area. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention.

Safety Data Sheet

Material Name: Blocking reagent B in MOUSESTAIN KIT

SDS ID: F-1007
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Skin

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Ingestion

If swallowed, get medical attention.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

Acute

asthma, allergic reactions

Delayed

asthma, allergic reactions

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Use extinguishing agents appropriate for surrounding fire.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

5.2 Special Hazards Arising from the Substance or Mixture

Negligible fire hazard.

Thermal Decomposition Products

Combustion: miscellaneous decomposition products

5.3 Advice for Firefighters

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out.

Protective Equipment and Precautions for Firefighters

Wear personal protective clothing and equipment such as self-contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

6.2 Environmental Precautions

Avoid release to the environment.

6.3 Methods and Material for Containment and Cleaning up

Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Keep unnecessary people away, isolate hazard area and deny entry.

6.4 Reference to Other Sections

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

Section 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Safety Data Sheet

Material Name: Blocking reagent B in MOUSESTAIN KIT

SDS ID: F-1007
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Avoid breathing vapor or mist. In case of inadequate ventilation wear respiratory protection. Avoid contact with skin and eyes. Wash thoroughly after handling.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Store and handle in accordance with all current regulations and standards.

7.3 Specific End Use(s)

immunohistochemical use

* * *Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

8.1 Control Parameters

Component Exposure Limits

Glutaraldehyde (111-30-8)

- Austria:** 0.05 ppm TWA [TMW]; 0.2 mg/m³ TWA [TMW]
0.05 ppm STEL [KZW]; 0.2 mg/m³ STEL [KZW]
0.05 ppm Ceiling; 0.2 mg/m³ Ceiling
Respiratory sensitizer
Skin sensitizer
- Croatia:** 0.05 ppm TWA [GVI]; 0.2 mg/m³ TWA [GVI]
0.05 ppm STEL [KGVI]; 0.2 mg/m³ STEL [KGVI]
- Denmark:** 0.2 ppm Ceiling; 0.8 mg/m³ Ceiling
- Estonia:** 0.2 ppm Ceiling; 0.8 mg/m³ Ceiling
- Finland:** 0.1 ppm STEL; 0.42 mg/m³ STEL
0.1 ppm Ceiling; 0.42 mg/m³ Ceiling
- France:** 0.1 ppm TWA [VME]; 0.4 mg/m³ TWA [VME]
0.2 ppm STEL [VLCT]; 0.8 mg/m³ STEL [VLCT]
- Germany (TRGS):** 0.05 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 0.2 mg/m³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)
skin notation
- Germany (DFG):** 0.05 ppm TWA MAK (can occur as vapor and aerosol at the same time); 0.21 mg/m³ TWA MAK (can occur as vapor and aerosol at the same time)
0.1 ppm Peak; 0.42 mg/m³ Peak
respiratory and skin sensitizer
- Greece:** 0.2 ppm TWA; 0.8 mg/m³ TWA
0.2 ppm STEL; 0.8 mg/m³ STEL
- Ireland:** 0.05 ppm STEL; 0.2 mg/m³ STEL
Sensitizer
- Latvia:** 5 mg/m³ TWA
- Lithuania:** 0.2 ppm Ceiling [NRD]; 0.8 mg/m³ Ceiling [NRD]
- Poland:** 0.4 mg/m³ TWA [NDS]
0.6 mg/m³ STEL [NDSch]
- Portugal:** 0.05 ppm Ceiling [VLE-CM] (activated and inactivated)
Sensitizer (activated and inactivated)
- Slovak Republic:** 0.05 ppm TWA; 0.21 mg/m³ TWA
0.2 mg/m³ Ceiling
- Slovenia:** 0.1 ppm TWA; 0.42 mg/m³ TWA
0.1 ppm STEL; 0.42 mg/m³ STEL

Safety Data Sheet

Material Name: Blocking reagent B in MOUSESTAIN KIT

SDS ID: F-1007
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

- Spain:** 0.05 ppm STEL [VLA-EC]; 0.2 mg/m³ STEL [VLA-EC]
sensitizer
- Sweden:** 0.1 ppm CLV; 0.4 mg/m³ CLV
Sensitizer
- United Kingdom:** 0.05 ppm TWA; 0.2 mg/m³ TWA
0.05 ppm STEL; 0.2 mg/m³ STEL
Capable of causing occupational asthma
- Sodium azide (26628-22-8)**
- EU (IOELV):** 0.1 mg/m³ TWA
0.3 mg/m³ STEL
Possibility of significant uptake through the skin
- Austria:** 0.1 mg/m³ TWA [TMW]
0.3 mg/m³ STEL [KZW] (4 X 15 min)
skin notation
- Belgium:** Skin
- Bulgaria:** 0.1 mg/m³ TWA
0.3 mg/m³ STEL
Skin notation
- Croatia:** 0.1 mg/m³ TWA [GVI]
0.3 mg/m³ STEL [KGVII]
Skin Notation
- Denmark:** 0.1 mg/m³ TWA
Potential for cutaneous absorption
- Estonia:** 0.1 mg/m³ TWA
0.3 mg/m³ STEL
Skin notation
- Finland:** 0.1 mg/m³ TWA
0.3 mg/m³ STEL
Potential for cutaneous absorption
- France:** 0.1 mg/m³ TWA [VME] (restrictive limit)
0.3 mg/m³ STEL [VLCT] (restrictive limit)
Risk of cutaneous absorption
- Germany (TRGS):** 0.2 mg/m³ TWA AGW (exposure factor 2)
- Gibraltar:** Skin notation
0.3 mg/m³ STEL
0.1 mg/m³ TWA
- Germany (DFG):** 0.2 mg/m³ TWA MAK (inhalable fraction)
0.4 mg/m³ Peak (inhalable fraction)
- Greece:** 0.1 ppm TWA; 0.3 mg/m³ TWA
0.1 ppm STEL; 0.3 mg/m³ STEL
- Hungary:** 0.1 mg/m³ TWA [AK]
0.3 mg/m³ STEL [CK]
- Ireland:** 0.1 mg/m³ TWA (as NaN₃)
0.3 mg/m³ STEL
Potential for cutaneous absorption
- Italy:** 0.1 mg/m³ TWA Media Ponderata nel Tempo
0.3 mg/m³ STEL Breve termine
skin - potential for cutaneous absorption
- Latvia:** 0.1 mg/m³ TWA

Safety Data Sheet

Material Name: Blocking reagent B in MOUSESTAIN KIT

SDS ID: F-1007
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

| | |
|-------------------------|--|
| | 0.3 mg/m3 STEL |
| | skin - potential for cutaneous exposure |
| Lithuania: | 0.1 mg/m3 TWA [IPRD] |
| | 0.3 mg/m3 STEL [TPRD] |
| | Skin notation |
| Malta: | 0.1 mg/m3 TWA |
| | 0.3 mg/m3 STEL |
| | possibility of significant uptake through the skin |
| Netherlands: | 0.1 mg/m3 TWA |
| | 0.3 mg/m3 STEL |
| | skin notation |
| Poland: | 0.1 mg/m3 TWA [NDS] |
| | 0.3 mg/m3 STEL [NDSch] |
| Portugal: | 0.1 mg/m3 TWA [VLE-MP] (indicative limit value) |
| | 0.3 mg/m3 STEL [VLE-CD] (indicative limit value) |
| | 0.29 mg/m3 Ceiling [VLE-CM] (as NaN ₃); 0.11 ppm Ceiling [VLE-CM] (as Hydrazoic acid, vapor) |
| | skin - potential for cutaneous exposure (indicative limit value) |
| Romania: | 0.1 mg/m3 TWA |
| | 0.3 mg/m3 STEL |
| | Skin notation |
| Slovak Republic: | 0.1 mg/m3 TWA |
| | 0.3 mg/m3 Ceiling |
| | Potential for cutaneous absorption |
| Slovenia: | 0.1 mg/m3 TWA |
| | 0.3 mg/m3 STEL |
| | Potential for cutaneous absorption |
| Spain: | 0.1 mg/m3 TWA [VLA-ED] (indicative limit value) |
| | 0.3 mg/m3 STEL [VLA-EC] |
| | skin - potential for cutaneous exposure |
| Sweden: | 0.1 mg/m3 LLV |
| | 0.3 mg/m3 STV |
| | Skin notation |
| United Kingdom: | 0.1 mg/m3 TWA (as NaN ₃) |
| | 0.3 mg/m3 STEL (as NaN ₃) |
| | Potential for cutaneous absorption |

Component Biological Limit Values

There are no biological limit values for the component(s) of this product.

Derived No Effect Levels (DNELs)

No DNELs available.

Predicted No Effect Concentrations (PNECs)

No PNECs available.

8.2 Exposure Controls

Appropriate Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Personal Protective Equipment

Eye / Face Protection

Wear splash resistant safety glasses. (EN 166) Provide an emergency eye wash fountain and quick drench

Safety Data Sheet

Material Name: Blocking reagent B in MOUSESTAIN KIT

SDS ID: F-1007
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing. (EN 340)

Glove Recommendations

Wear appropriate chemical resistant gloves. (EN 374)

Respiratory Protection

If airborne contaminant levels exceed recommended exposure limits, use CEN/EN Standard applicable respiratory protection appropriate for employee exposure levels.

Consult with a health and safety professional for specific respirators appropriate for your use.

Environmental Exposure Controls

Avoid release to the environment.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

| | | | |
|-----------------------------------|---------------|--------------------------------------|------------------|
| Physical State: | Liquid | Appearance: | colorless liquid |
| Color: | colorless | Physical Form: | liquid |
| Odor: | odorless | Odor Threshold: | Not available |
| pH: | Not available | Melting Point: | Not available |
| Boiling Point: | Not available | Flash Point: | Not available |
| Decomposition Temperature: | Not available | Evaporation Rate: | Not available |
| LEL: | Not available | UEL: | Not available |
| Vapor Pressure: | Not available | Vapor Density (air = 1): | Not available |
| Density: | Not available | Specific Gravity (water = 1): | Not available |
| Water Solubility: | Not available | Log KOW: | Not available |
| Coeff. Water/Oil Dist: | Not available | Auto Ignition Temperature: | Not available |
| Viscosity: | Not available | Oxidizing Properties: | Not available |
| Explosive Properties: | Not available | Flammability (solid, gas): | Not applicable |

9.2 Other Information

No additional information is available.

Section 10 - STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity hazard is expected.

10.2 Chemical Stability

Stable at standard temperatures and pressure.

10.3 Possibility of Hazardous Reactions

Will not polymerize.

10.4 Conditions to Avoid

None known.

10.5 Incompatible Materials

None known.

10.6 Hazardous Decomposition Products

Thermal Decomposition Products

Safety Data Sheet

Material Name: Blocking reagent B in MOUSESTAIN KIT

SDS ID: F-1007
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Combustion: miscellaneous decomposition products

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The component(s) of this material have been reviewed in various sources and the following selected endpoints are published:

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Glutaraldehyde (111-30-8)

Dermal LD50 Rabbit 560 µL/kg; Inhalation LC50 Rat 0.1 mg/L 4 h; Oral LD50 Rat 252 mg/kg

Sodium azide (26628-22-8)

Oral LD50 Rat 27 mg/kg

Irritation / Corrosivity

May cause irritation.

Respiratory Sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Skin Sensitisation

No information available for the product.

Germ Cell Mutagenicity

No information available for the product.

Carcinogenicity

Component Carcinogenicity

Glutaraldehyde (111-30-8)

DFG: Category 4 (no significant contribution to human cancer)

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration Hazard

No information available for the product.

Section 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Component Analysis - Aquatic Toxicity

Glutaraldehyde (111-30-8)

Fish: 96 Hr LC50 *Lepomis macrochirus*: 7.8 - 22 mg/L [static]; 96 Hr LC50 *Oncorhynchus mykiss*: 2.6 - 4.8 mg/L [flow-through]; 96 Hr LC50 *Oncorhynchus mykiss*: 7.8 - 13 mg/L [static]; 96 Hr LC50 *Pimephales promelas*: 5.4 mg/L [static]

Algae: 72 Hr EC50 *Desmodesmus subspicatus*: 0.61 mg/L; 96 Hr EC50 *Desmodesmus subspicatus*: 0.84 mg/L

Invertebrate: 48 Hr EC50 *Daphnia magna*: 14 mg/L; 48 Hr EC50 *Daphnia magna*: 0.56 - 1.0 mg/L [Static]

Safety Data Sheet

Material Name: Blocking reagent B in MOUSESTAIN KIT

SDS ID: F-1007
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Sodium azide (26628-22-8)

Fish: 96 Hr LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 Hr LC50 Lepomis macrochirus: 0.7 mg/L; 96 Hr LC50 Pimephales promelas: 5.46 mg/L [flow-through]

12.2 Persistence and Degradability

No information available for the product.

12.3 Bioaccumulative Potential

No information available for the product.

12.4 Mobility in Soil

No information available for the product.

12.5 Results of PBT and vPvB Assessment

No information available.

EU - Interim Strategy for Management of PBT and vPvB Substances (PBT Assessments)

No components of this material are listed.

12.6 Other Adverse Effects

No additional information is available.

Section 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

13.1.1 Product/Packaging Disposal

For disposal within the EC, use the appropriate code according to European Waste Catalogue (EWC). EWC-code: 18 02 05*

13.1.2 Waste Treatment Relevant Information

Dispose in accordance with all applicable regulations.

13.1.3 Sewage Disposal Relevant Information

This product contains Sodium azide. Prevent entry into sewers, drains, ditches, underground or confined spaces and waterways.

13.1.4 Other Disposal Recommendations

Dispose in accordance with all applicable regulations.

Section 14 - TRANSPORT INFORMATION

Transportation

Not regulated as dangerous goods

International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Glutaraldehyde (111-30-8)

IBC Code: Category Y (solutions, <=50%)

Section 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture

EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorisation

No components of this material are listed.

EU - REACH (1907/2006) - Article 59(1) Candidate List of Substances for Eventual Inclusion in Annex XIV

No components of this material are listed.

Safety Data Sheet

Material Name: Blocking reagent B in MOUSESTAIN KIT

SDS ID: F-1007
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles

No components of this material are listed.

Germany Regulations

Germany Water Classification

Glutaraldehyde (111-30-8)

ID Number 712, hazard class 3 - severe hazard to waters

Sodium azide (26628-22-8)

ID Number 636, hazard class 2 - hazard to waters

Denmark Regulations

Environmental Protection Agency List of Undesirable Substances

Glutaraldehyde (111-30-8)

Present

Threshold of Exposure Concentrations of VOCs

No components of this material are listed.

France Water Pollution

No components of this material are listed.

Inventory

Substance Analysis - Inventory

| Component | CAS | EEC |
|----------------|------------|-----|
| Water | 7732-18-5 | EIN |
| Glutaraldehyde | 111-30-8 | EIN |
| Sodium azide | 26628-22-8 | EIN |

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the substance/mixture.

* * *Section 16 - OTHER INFORMATION* * *

16.1 Indication of changes

New SDS: 09 December 2015

16.2 Key / Legend to abbreviations and acronyms used in the safety data sheet

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AIHA - American Industrial Hygiene Association; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling and Packaging; DNEL - Derived No Effect Level; DOT - Department of Transportation; DSD - Dangerous Substances Directive (67/548/EEC); DSL - Domestic Substances List; EC50 - Effective Concentration, 50%; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; EPA - Environmental Protection Agency; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC Code - International Bulk Chemical Code; IMDG - International Maritime Dangerous Goods; Kow - Octanol/water partition coefficient; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; LEL - Lower Explosive Limit; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; PNEC - Predicted No Effect Concentration; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL

Safety Data Sheet

Material Name: Blocking reagent B in MOUSESTAIN KIT

SDS ID: F-1007
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

- Upper Explosive Limit; WHMIS - Workplace Hazardous Materials Information System

16.3 Key literature references and sources for data

Available upon request

16.4 Methods used for classification of mixture according to Regulation (EC) No 1272/2008

Available upon request

16.5 Full text of H- phrases in Section 3

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH032 Contact with acids liberates very toxic gas.

16.6 Training Advice

Read the Safety Data Sheet before handling product.

16.7 Other Information

Disclaimer: Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

End of Sheet F1007

Safety Data Sheet

Material Name: Labeled Polymer

SDS ID: F-1005
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Section 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier:

Product Identifier: Labeled polymer

(**N**-Histofine Simple Stain MAX PO, **N**-Histofine Simple Stain MAX AP, **N**-Histofine Simple Stain Rat MAX PO, **N**-Histofine MOUSESTAIN KIT; Vial 3 Simple Stain Mouse MAX PO (M))

Product code: 414131F, 414132F, 414134F, 414141F, 414142F, 414144F, 414151F, 414152F, 414154F, 414161F, 414162F, 414241F, 414242F, 414251F, 414252F, 414261F, 414262F, 414171F, 414181F, 414191F, 414331F, 414311F, 414351F, 414341F, 414321F, 414322F

Other means of identification:

Aqueous, protein containing solution preserved with methylisothiazolone (<0.1%) and bromonitrodioxane (<0.1%).

Substance Registration Number(s)

This product and its components are not subject to REACH.

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Identified Uses

immunohistochemical use

Reagent type: Bottle

414131F: **N**-Histofine Simple Stain MAX PO (M); 17 ml x 1

414132F: **N**-Histofine Simple Stain MAX PO (M); 17 ml x 3

414133F: **N**-Histofine Simple Stain MAX PO (M); 17 ml x 9

414141F: **N**-Histofine Simple Stain MAX PO (R); 17 ml x 1

414142F: **N**-Histofine Simple Stain MAX PO (R); 17 ml x 3

414143F: **N**-Histofine Simple Stain MAX PO (R); 17 ml x 9

414151F: **N**-Histofine Simple Stain MAX PO (MULTI); 17 ml x 1

414152F: **N**-Histofine Simple Stain MAX PO (MULTI); 17 ml x 3

414153F: **N**-Histofine Simple Stain MAX PO (MULTI); 17 ml x 9

414161F: **N**-Histofine Simple Stain MAX PO (G); 17 ml x 1

414162F: **N**-Histofine Simple Stain MAX PO (G); 17 ml x 3

414241F: **N**-Histofine Simple Stain MAX AP (M); 17 ml x 1

414242F: **N**-Histofine Simple Stain MAX AP (M); 17 ml x 3

414251F: **N**-Histofine Simple Stain MAX AP (R); 17 ml x 1

414252F: **N**-Histofine Simple Stain MAX AP (R); 17 ml x 3

414261F: **N**-Histofine Simple Stain MAX AP (MULTI); 17 ml x 1

414262F: **N**-Histofine Simple Stain MAX AP (MULTI); 17 ml x 3

414171F: **N**-Histofine Simple Stain Rat MAX PO (M); 17 ml x 1

414181F: **N**-Histofine Simple Stain Rat MAX PO (R); 17 ml x 1

414191F: **N**-Histofine Simple Stain Rat MAX PO (MULTI); 17 ml x 1

414331F: **N**-Histofine Simple Stain Rat MAX PO (G); 17 ml x 1

414311F: **N**-Histofine Simple Stain Mouse MAX PO (Rat); 17 ml x 1

Safety Data Sheet

Material Name: Labeled Polymer

SDS ID: F-1005
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

414351F: **N**-Histofine Simple Stain Mouse MAX PO (G); 17 ml x 1
414341F: **N**-Histofine Simple Stain Mouse MAX PO (R); 17 ml x 1
414321F: **N**-Histofine MOUSESTAIN KIT; Vial 3 Simple Stain Mouse MAX PO (M); 17 ml x 1
414322F: **N**-Histofine MOUSESTAIN KIT; Vial 3 Simple Stain Mouse MAX PO (M); 17 ml x 3

Uses Advised Against

Use in accordance with supplier's recommendations.

1.3 Details of the supplier of the safety data sheet

Nichirei Biosciences Inc.
6-19-20, Tsukiji, Chuo-Ku
Tokyo, Japan

Telephone number: +81-3-3248-2207
Email: yasudakzh@nichirei.co.jp

1.4 Emergency Telephone Number

+81-3-3248-2207 (9:00-17:00 Japan time)

* * *Section 2 - HAZARDS IDENTIFICATION* * *

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008

No classification is assigned, based on classification criteria. Review the entire data sheet for any additional information which did not result in a GHS classification.

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008:

Symbol(s)

None needed according to classification criteria.

Signal Word

None needed according to classification criteria.

Hazard Statement(s)

None needed according to classification criteria.

Precautionary Statement(s)

Prevention

None needed according to classification criteria.

Response

None needed according to classification criteria.

Storage

None needed according to classification criteria.

Disposal

Dispose in accordance with all applicable regulations.

2.3 Other Hazards

No additional information is available.

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

Safety Data Sheet

Material Name: Labeled Polymer

SDS ID: F-1005
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

| CAS EC No Registration No | Component Synonyms | 1272/2008 (CLP) | Percent |
|---------------------------------|-------------------------------------|--------------------|---------|
| Not Available -- -- | Aqueous protein containing solution | -- | 100% |

Section 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation

If adverse effects occur, remove to uncontaminated area. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention.

Skin

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Ingestion

If swallowed, get medical attention.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

Acute

No information on significant adverse effects.

Delayed

No information on significant adverse effects.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Use extinguishing agents appropriate for surrounding fire.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

5.2 Special Hazards Arising from the Substance or Mixture

Negligible fire hazard.

Thermal Decomposition Products

Combustion: miscellaneous decomposition products

5.3 Advice for Firefighters

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out.

Protective Equipment and Precautions for Firefighters

Wear personal protective clothing and equipment such as self-contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Safety Data Sheet

Material Name: Labeled Polymer

SDS ID: F-1005
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

6.2 Environmental Precautions

Avoid release to the environment.

6.3 Methods and Material for Containment and Cleaning up

Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Keep unnecessary people away, isolate hazard area and deny entry.

6.4 Reference to Other Sections

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

* * *Section 7 - HANDLING AND STORAGE* * *

7.1 Precautions for Safe Handling

Avoid breathing vapor or mist. Avoid contact with skin and eyes. Wash thoroughly after handling.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Store and handle in accordance with all current regulations and standards.

7.3 Specific End Use(s)

immunohistochemical use

* * *Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

8.1 Control Parameters

Component Exposure Limits

There are no exposure limits for the component(s) of this product.

Component Biological Limit Values

There are no biological limit values for the component(s) of this product.

Derived No Effect Levels (DNELs)

No DNELs available.

Predicted No Effect Concentrations (PNECs)

No PNECs available.

8.2 Exposure Controls

Appropriate Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Personal Protective Equipment

Eye / Face Protection

Wear splash resistant safety glasses. (EN 166) Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing. (EN 340)

Glove Recommendations

Wear appropriate chemical resistant gloves. (EN 374)

Respiratory Protection

If airborne contaminant levels exceed recommended exposure limits, use CEN/EN Standard applicable respiratory protection appropriate for employee exposure levels.

Consult with a health and safety professional for specific respirators appropriate for your use.

Environmental Exposure Controls

Safety Data Sheet

Material Name: Labeled Polymer

SDS ID: F-1005
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Avoid release to the environment.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

| | | | |
|-----------------------------------|--|--------------------------------------|------------------|
| Physical State: | Liquid | Appearance: | colorless liquid |
| Color: | Light yellow (PO conjugates) Light orange (AP conjugates) | Physical Form: | liquid |
| Odor: | odorless | Odor Threshold: | Not available |
| pH: | Not available | Melting Point: | Not available |
| Boiling Point: | Not available | Flash Point: | Not available |
| Decomposition Temperature: | Not available | Evaporation Rate: | Not available |
| LEL: | Not available | UEL: | Not available |
| Vapor Pressure: | Not available | Vapor Density (air = 1): | Not available |
| Density: | Not available | Specific Gravity (water = 1): | Not available |
| Water Solubility: | Not available | Log KOW: | Not available |
| Coeff. Water/Oil Dist: | Not available | Auto Ignition Temperature: | Not available |
| Viscosity: | Not available | Oxidizing Properties: | Not available |
| Explosive Properties: | Not available | Flammability (solid, gas): | Not applicable |

9.2 Other Information

No additional information is available.

Section 10 - STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity hazard is expected.

10.2 Chemical Stability

Stable at standard temperatures and pressure.

10.3 Possibility of Hazardous Reactions

Will not polymerize.

10.4 Conditions to Avoid

None known.

10.5 Incompatible Materials

None known.

10.6 Hazardous Decomposition Products

Thermal Decomposition Products

Combustion: miscellaneous decomposition products

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

No information available for the product.

Irritation / Corrosivity

Safety Data Sheet

Material Name: Labeled Polymer

SDS ID: F-1005
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

May cause irritation.

Respiratory Sensitisation

No information available for the product.

Skin Sensitisation

No information available for the product.

Germ Cell Mutagenicity

No information available for the product.

Carcinogenicity

Component Carcinogenicity

No information available for the product.

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration Hazard

No information available for the product.

Section 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Component Analysis - Aquatic Toxicity

No information available for the product.

12.2 Persistence and Degradability

No information available for the product.

12.3 Bioaccumulative Potential

No information available for the product.

12.4 Mobility in Soil

No information available for the product.

12.5 Results of PBT and vPvB Assessment

No information available.

EU - Interim Strategy for Management of PBT and vPvB Substances (PBT Assessments)

No components of this material are listed.

12.6 Other Adverse Effects

No additional information is available.

Section 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

13.1.1 Product/Packaging Disposal

For disposal within the EC, use the appropriate code according to European Waste Catalogue (EWC).

13.1.2 Waste Treatment Relevant Information

Dispose in accordance with all applicable regulations.

13.1.3 Sewage Disposal Relevant Information

Prevent entry into sewers, drains, ditches, underground or confined spaces and waterways.

13.1.4 Other Disposal Recommendations

Safety Data Sheet

Material Name: Labeled Polymer

SDS ID: F-1005
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Dispose in accordance with all applicable regulations.

Section 14 - TRANSPORT INFORMATION

Transportation

Not regulated as dangerous goods

International Bulk Chemical Code

This material contains no chemical required by the IBC Code to be identified as dangerous chemicals in bulk

Section 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture

EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorisation

No components of this material are listed.

EU - REACH (1907/2006) - Article 59(1) Candidate List of Substances for Eventual Inclusion in Annex XIV

No components of this material are listed.

EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles

No components of this material are listed.

Germany Regulations

Germany Water Classification

No components of this material are listed.

Denmark Regulations

Environmental Protection Agency List of Undesirable Substances

No components of this material are listed.

Threshold of Exposure Concentrations of VOCs

No components of this material are listed.

France Water Pollution

No components of this material are listed.

Inventory

Substance Analysis - Inventory

No components of this material are listed.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the substance/mixture.

Section 16 - OTHER INFORMATION

16.1 Indication of changes

New SDS: 09 December 2015

16.2 Key / Legend to abbreviations and acronyms used in the safety data sheet

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AIHA - American Industrial Hygiene Association; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling and Packaging; DNEL - Derived No Effect Level; DOT - Department of Transportation; DSD - Dangerous Substances Directive (67/548/EEC); DSL - Domestic Substances List; EC50 - Effective Concentration, 50%; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; EPA - Environmental Protection Agency; IARC - International

Safety Data Sheet

Material Name: Labeled Polymer

SDS ID: F-1005
In compliance with Regulation
(EC) 1907/2006 (REACH) as
amended

Agency for Research on Cancer; IATA - International Air Transport Association; IBC Code - International Bulk Chemical Code; IMDG - International Maritime Dangerous Goods; Kow - Octanol/water partition coefficient; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; LEL - Lower Explosive Limit; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; PNEC - Predicted No Effect Concentration; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; WHMIS - Workplace Hazardous Materials Information System

16.3 Key literature references and sources for data

Available upon request

16.4 Methods used for classification of mixture according to Regulation (EC) No 1272/2008

Available upon request

16.5 Full text of H- phrases in Section 3

There is no text of H-phrase.

16.6 Training Advice

Read the Safety Data Sheet before handling product.

16.7 Other Information

Disclaimer: Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

End of Sheet F-1005