


## SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

|                               |  |   |
|-------------------------------|--|---|
| Product name                  | <b>Anti-phosphotyrosine-HRP conjugate; part of<br/>'ECL™ Phosphorylation Module, 25 blots'</b> |   |
| Catalogue Number              | RPN2220  | <br>9 0 R P N 2 2 2 0 |
| Component Number              | NIF2055  |   |
| Product description           | Not available.   |   |
| Product type                  | Liquid.  |   |
| Other means of identification | Not available.   |   |

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Not available.

#### 1.3 Details of the supplier of the safety data sheet

##### Supplier

GE Healthcare UK Ltd  
Amersham Place  
Little Chalfont  
Buckinghamshire HP7 9NA  
England  
+44 0870 606 1921

##### **Hours of operation**

08.30 - 17.00

**Person who prepared the MSDS:** msdslifesciences@ge.com

##### **1.4 Emergency telephone number**

##### **Europe**

GE Healthcare Bio-Sciences GmbH  
Munzinger Strasse 5  
D-79111 Freiburg  
Germany / Deutschland

+49 0761 4543 0

#### National advisory body/Poison Centre

##### **Europe**

<http://www.who.int/ipcs/poisons/centre/directory/euro/en/>

Mixture

Classification according to Directive 1999/45/EC [DPD]

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** Mixture

##### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** Xi; R36/37/38

**Human health hazards** Irritating to eyes, respiratory system and skin.

See Section 16 for the full text of the R phrases or H statements declared above.

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



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## 2.2 Label elements

### Hazard symbol or symbols



### Indication of danger

Irritant

### Risk phrases

R36/37/38- Irritating to eyes, respiratory system and skin.

### Safety phrases

Not applicable.

### Hazardous ingredients

### Supplemental label elements

Not applicable.

### Special packaging requirements

#### Containers to be fitted with child-resistant fastenings

Not applicable.

#### Tactile warning of danger

Not applicable.

## 2.3 Other hazards

Other hazards which do not result in classification Not available.

## SECTION 3: Composition/information on ingredients

### Substance/mixture

Mixture

| Product/ingredient name | Identifiers                   | %     | Classification |                                     | Type    |
|-------------------------|-------------------------------|-------|----------------|-------------------------------------|---------|
|                         |                               |       | 67/548/EEC     | Regulation (EC) No. 1272/2008 [CLP] |         |
| glycerol                | EC: 200-289-5<br>CAS: 56-81-5 | 50-75 | Xi; R36/37/38  | Not classified.                     | [1] [2] |

See Section 16 for the full text of the R-phrases declared above.

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

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.



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|                                   |   |
|-----------------------------------|---|
| <b>Ingestion</b>                  | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| <b>Protection of first-aiders</b> | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.  |

## 4.2 Most important symptoms and effects, both acute and delayed

### Potential acute health effects

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | Irritating to eyes.                      |
| <b>Inhalation</b>   | Irritating to respiratory system.        |
| <b>Skin contact</b> | Irritating to skin.                      |
| <b>Ingestion</b>    | Irritating to mouth, throat and stomach. |

### Over-exposure signs/symptoms

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Adverse symptoms may include the following:<br>irritation<br>watering<br>redness        |
| <b>Inhalation</b>   | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing |
| <b>Skin contact</b> | Adverse symptoms may include the following:<br>irritation<br>redness                    |
| <b>Ingestion</b>    | No specific data.   |

## 4.3 Indication of any immediate medical attention and special treatment needed

|                            |   |
|----------------------------|---|
| <b>Notes to physician</b>  | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b> | No specific treatment.  |

# SECTION 5: Firefighting measures

## 5.1 Extinguishing media

|                                       |   |
|---------------------------------------|---|
| <b>Suitable extinguishing media</b>   | Use an extinguishing agent suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | None known.   |

## 5.2 Special hazards arising from the substance or mixture

|  |  |
|--|--|
| <b>Hazards from the substance or mixture</b> | In a fire or if heated, a pressure increase will occur and the container may burst.  |
| <b>Hazardous combustion products</b>         | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>phosphorus oxides<br>halogenated compounds<br>metal oxide/oxides |

## 5.3 Advice for firefighters

|   |   |
|---|---|
| <b>Special precautions for fire-fighters</b>          | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.   |
| <b>Special protective equipment for fire-fighters</b> | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |



## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

**6.2 Environmental precautions** Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

**Small spill** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

**6.4 Reference to other sections** See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

**Recommendations** Not available.

**Industrial sector specific solutions** Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values   |
|-------------------------|---|
| glycerol                | <p>ACGIH TLV (United States, 2/2010). Notes: Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract.</p> <p>TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract.</p> |



|   |  |
|---|--|
| <b>Recommended monitoring procedures</b>      | If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances. |
| <b><u>Derived effect levels</u></b>           |  |
| No DELs available.                            |  |
| <b><u>Predicted effect concentrations</u></b> |  |
| No PECs available.                            |  |
| <b>8.2 Exposure controls</b>                  |  |
| <b>Appropriate engineering controls</b>       | Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.  |
| <b><u>Individual protection measures</u></b>  |  |
| <b>Hygiene measures</b>                       | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.  |
| <b>Eye/face protection</b>                    | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.   |
| <b><u>Skin protection</u></b>                 |  |
| <b>Hand protection</b>                        | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.  |
| <b>Body protection</b>                        | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Other skin protection</b>                  | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Respiratory protection</b>                 | Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.  |
| <b>Environmental exposure controls</b>        | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.   |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |  |
|---|--|
| <b><u>Appearance</u></b>                            |  |
| <b>Physical state</b>                               | Liquid.  |
| <b>Colour</b>                                       | Colourless.  |
| <b>Odour</b>  | Not available.   |
| <b>Odour threshold</b>                              | Not available.   |
| <b>pH</b>   | Not available.   |
| <b>Melting point/freezing point</b>                 | Not available.   |
| <b>Initial boiling point and boiling range</b>      | Not available.   |
| <b>Flash point</b>                                  | [Product does not sustain combustion.]                               |
| <b>Evaporation rate</b>                             | Not available.   |
| <b>Flammability (solid, gas)</b>                    | Not available.   |
| <b>Burning time</b>                                 | Not applicable.  |
| <b>Burning rate</b>                                 | Not applicable.  |
| <b>Upper/lower flammability or explosive limits</b> | Not available.   |
| <b>Vapour pressure</b>                              | Not available.   |
| <b>Vapour density</b>                               | Not available.   |
| <b>Relative density</b>                             | Not available.   |
| <b>Solubility(ies)</b>                              | Easily soluble in the following materials: cold water and hot water. |



|   |  |
|---|--|
| <b>Partition coefficient: n-octanol/water</b> | Not available.   |
| <b>Auto-ignition temperature</b>              | Not available.   |
| <b>Decomposition temperature</b>              | Not available.   |
| <b>Viscosity</b>                              | Not available.   |
| <b>Explosive properties</b>                   | Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture. |
| <b>Oxidising properties</b>                   | Not available.   |

## 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

|  |  |
|--|--|
| <b>10.1 Reactivity</b>                         | No specific test data related to reactivity available for this product or its ingredients.           |
| <b>10.2 Chemical stability</b>                 | The product is stable.   |
| <b>10.3 Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>10.4 Conditions to avoid</b>                | No specific data.  |
| <b>10.5 Incompatible materials</b>             | No specific data.  |
| <b>10.6 Hazardous decomposition products</b>   | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result    | Species | Dose        | Exposure |
|-------------------------|-----------|---------|-------------|----------|
| glycerol                | LD50 Oral | Rat     | 12600 mg/kg | -        |

**Conclusion/Summary** Not available.

#### Irritation/Corrosion

**Conclusion/Summary** Not available.

#### Sensitiser

**Conclusion/Summary** Not available.

#### Mutagenicity

**Conclusion/Summary** Not available.

#### Carcinogenicity

**Conclusion/Summary** Not available.

#### Reproductive toxicity

**Conclusion/Summary** Not available.

#### Teratogenicity

**Conclusion/Summary** Not available.

**Information on the likely routes of exposure** Not available.

#### Potential acute health effects

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Irritating to respiratory system.        |
| <b>Ingestion</b>    | Irritating to mouth, throat and stomach. |
| <b>Skin contact</b> | Irritating to skin.                      |
| <b>Eye contact</b>  | Irritating to eyes.                      |

#### Symptoms related to the physical, chemical and toxicological characteristics

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing |
| <b>Ingestion</b>  | No specific data.   |



|                     |  |
|---------------------|--|
| <b>Skin contact</b> | Adverse symptoms may include the following:<br>irritation<br>redness             |
| <b>Eye contact</b>  | Adverse symptoms may include the following:<br>irritation<br>watering<br>redness |

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

**Long term exposure**

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

**Potential chronic health effects**

Not available.

**Conclusion/Summary** Not available.

**General** No known significant effects or critical hazards.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

**Teratogenicity** No known significant effects or critical hazards.

**Developmental effects** No known significant effects or critical hazards.

**Fertility effects** No known significant effects or critical hazards.

**Other information** Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result                               | Species                            | Exposure |
|-------------------------|--------------------------------------|------------------------------------|----------|
| glycerol                | Acute LC50 54 to 57 ml/L Fresh water | Fish - Oncorhynchus mykiss - 0.9 g | 96 hours |

**Conclusion/Summary** Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** Not available.

| Product/ingredient name | Aquatic half-life | Photolysis      | Biodegradability |
|-------------------------|-------------------|-----------------|------------------|
| glycerol                | -                 | >60%; 28 day(s) | Readily          |

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** Not available.

**Mobility** Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** Not applicable.

**vPvB** Not applicable.

**12.6 Other adverse effects** No known significant effects or critical hazards.



## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

##### Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

##### Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

##### Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

##### Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                                   | ADR/RID        | ADN/ADNR       | IMDG           | IATA           |
|-----------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number                    | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name      | -              | -              | -              | -              |
| 14.3 Transport hazard class(es)   | -              | -              | -              | -              |
| 14.4 Packing group                | -              | -              | -              | -              |
| 14.5 Environmental hazards        | No.            | No.            | No.            | No.            |
| 14.6 Special precautions for user | Not available. | Not available. | Not available. | Not available. |
| Additional information            | -              | -              | -              | -              |

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

#### Substances of very high concern

None of the components are listed.

#### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.



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#### Other EU regulations

|   |  |
|---|--|
| Europe inventory  | All components are listed or exempted. |
| Black List Chemicals  | Not listed                             |
| Priority List Chemicals   | Not listed                             |
| Integrated pollution prevention and control list (IPPC) - Air   | Not listed                             |
| Integrated pollution prevention and control list (IPPC) - Water | Not listed                             |

#### International regulations

|   |            |
|---|------------|
| Chemical Weapons Convention List Schedule I Chemicals   | Not listed |
| Chemical Weapons Convention List Schedule II Chemicals  | Not listed |
| Chemical Weapons Convention List Schedule III Chemicals | Not listed |

#### **15.2 Chemical Safety Assessment**

This product contains substances for which Chemical Safety Assessments are still required.

### SECTION 16: Other information

Indicates information that has changed from previously issued version.

#### **Abbreviations and acronyms**

ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

|  |   |
|--|---|
| Full text of abbreviated H statements  | Not applicable.   |
| Full text of classifications [CLP/GHS] | Not applicable.   |
| Full text of abbreviated R phrases     | R36/37/38- Irritating to eyes, respiratory system and skin. |
| Full text of classifications [DSD/DPD] | Xi - Irritant   |
| Date of printing                       | 22 December 2011  |
| Date of issue/ Date of revision        | 22 December 2011  |
| Date of previous issue                 | No previous validation                                      |
| Version                                | 5   |

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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