Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Dako

Fluorochrome conjugated antibodies for flow cytometry

Section 1. Identification

Product identifier : Fluorochrome conjugated antibodies for flow cytometry

Part no. : C0222, C1001, C7066, C7067, C7099, C7224, C7225, C7226, C7227, C7230, C7238, C7242, C7244, C7246, C7252, C7256, C7278, C7280, C7281, FR044, FR048, FR481, FR700, FR729, FR866, FR867, FR868, FR875, FR881, FR882, FR883, FR894, IF001, IF002, PR701, PR702, PR703, PR704, PR706, PR707, PR710, PR711, PR712, PR713, R0436, R0437, R0439, R0480, R0715, R0745, R0805, R0806, R0807, R0808, R0810, R0811, R0841, R0842, R0843, R0848, R0864, R5111, R5112, R7000, R7012, R7013, R7014, R7058, R7061, R7078, R7086, R7087, R7108, R7125, R7127, R7144, R7145, R7159, R7164, R7188, R7189, R7209, R7219, R7229, R7251, R7267, R7272, R7277, TC051, TC641, TC660, TC661, TC663, TC664, TC665, TC666, TC667, TC668, TC669, TC670, TC671, TC674, TC675, TC677, TC683, TC685, TC686, TC687, TC689, TC690, X0928, X0929, X0930, X0932, X0935, X0949, X0950, X0955, X0956, X0957, X0968, X0978, X0979, X0998

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

Identified uses : Laboratory use
Container type: Bottle
C0222 // Polyclonal Rabbit Anti-Human Kappa Light Chains/APC, Rabbit F(ab')2 // 0.2-100mL
C1001 //Monoclonal Mouse Anti-Human Terminal Deoxynucleotidyl Transferase/ APC Clone DAK-TDT // 0.5 mL
C7066 // Monoclonal Mouse Anti-Human CD19/RPE-Cy5, Clone HD37 // 0.2-100mL
C7067 // Monoclonal Mouse Anti-Human CD3/RPE-Cy5, Clone UCHT1 // 0.2-100mL
C7099 // Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/RPE-Cy5, Clone T29/33 // 0.2-100mL
C7224 // Monoclonal Mouse Anti-Human CD19/APC, Clone HD37 // 0.2-100mL
C7225 // Monoclonal Mouse Anti-Human CD3/APC, Clone UCHT1 // 0.2-100mL
C7226 // Monoclonal Mouse Anti-Human CD4/APC, Clone MT310 // 0.2-100mL
C7227 // Monoclonal Mouse Anti-Human CD8/APC, Clone DK25 // 0.2-100mL
C7230 // Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/APC, Clone T29/33 // 0.2-100mL
C7238 // Monoclonal Mouse Anti-Human CD34 Class III/APC, Clone BIRMA-K3 // 0.2-100mL
C7242 // Monoclonal Mouse Anti-Human CD5/APC, Clone DK23 // 0.2-100mL
C7244 // Monoclonal Mouse Anti-Human CD117, c-kit/APC, Clone 104D2 // 0.2-100mL
C7246 // Monoclonal Mouse Anti-Human Myeloperoxidase/APC, Clone MPO-7 // 0.2-100mL
C7252 // Monoclonal Mouse Anti-Human CD79αcy/APC, Clone HM57 // 0.2-100mL
C7256 // Monoclonal Mouse Anti-Human CD138/APC, Clone MI15 // 0.2-100mL
C7278 // Monoclonal Mouse Anti-Human CD64, Fc Gamma Receptor I/APC, Clone 10.1 // 0.2-100mL
C7280 // Monoclonal Mouse Anti-Human CD61, Platelet Glycoprotein IIIa/APC, Clone Y2/51 // 0.2-100mL
C7281 // Monoclonal Mouse Anti-Human CD22/APC, Clone 4KB128 // 0.2-100mL
FR044 // MultiMix Dual-Colour Reagent, Anti-Human Lambda Light Chains/FITC + Anti-Human CD19/RPE // 0.2-100mL
FR048 // MultiMix Dual-Colour Reagent, Anti-Human Kappa Light Chains/FITC + Anti-Human CD19/RPE // 0.2-100mL
FR481 // MultiMix Dual-Colour Reagent, Anti-Human Kappa Light Chains/FITC + Anti-Human Lambda Light Chains/RPE // 0.2-100mL
FR700 // MultiMix Dual-Colour Reagent, Anti-Human CD45/FITC + Anti-Human CD14/RPE // 0.2-100mL
FR729 // MultiMix Dual-Colour Reagent, Anti-Human CD5/FITC + Anti-Human CD20/RPE // 0.2-100mL

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FR866 // MultiMix Dual-Colour Reagent, Anti-Human CD3/FITC + Anti-Human CD19/RPE // 0.2-100mL
FR867 // MultiMix Dual-Colour Reagent, Anti-Human HLA-DP, DQ, DR Antigen/ FITC + Anti-Human CD3/RPE // 0.2-100mL
FR868 // MultiMix Dual-Colour Reagent, Anti-Human CD4/FITC + Anti-Human CD8/RPE // 0.2-100mL
FR875 // MultiMix Dual-Colour Reagent, Anti-Human CD3/FITC + Anti-Human CD4/RPE // 0.2-100mL
FR881 // MultiMix Dual-Colour Reagent, Anti-Human CD3/FITC + Anti-Human CD8/RPE // 0.2-100mL
FR882 // MultiMix Dual-Colour Reagent, Anti-Human CD5/FITC + Anti-Human CD19/RPE // 0.2-100mL
FR883 // MultiMix Dual-Colour Reagent, Anti-Human CD10/FITC + Anti-Human CD19/RPE // 0.2-100mL
FR894 // MultiMix Dual-Colour Reagent, Anti-Human CD2/FITC + Anti-Human CD19/RPE // 0.2-100mL
IF001//Monoclonal Mouse Anti-Human Terminal Deoxynucleotidyl Transferase/ iFluor 488 Clone DAK-TDT // 0.5 mL
IF002//Monoclonal Mouse Anti-Human Terminal Deoxynucleotidyl Transferase/ iFluor 700 Clone DAK-TDT // 0.5 mL
PR701 // Monoclonal Mouse Anti-Human CD45, Leucotyte Common Antigen/PerCP, Clone 2D1 // 0,2-100mL
PR702 // Monoclonal Mouse Anti-Human CD3/PerCP, Clone UCHT1 // 0,2-100mL
PR703 // Monoclonal Mouse anti-Human CD19/PerCP-Cy5.5, clone HD37 // 0,2-100mL
PR704 // Monoclonal Mouse anti-Human Myeloperoxidase/PerCP-Cy5.5, clone MPO-7 // 0,2-100mL
PR706 // Monoclonal Mouse anti-Human CD34/PerCP-Cy5.5, clone BIRMA-K3 // 0,2-100mL
PR707// Monoclonal Mouse Anti-Human CD22/PerCP-Cy5.5 Clone 4KB128 // 0.5 mL
PR710 // Monoclonal Mouse Anti-Human CD1a/PerCP-Cy5.5 Clone NA1/34 // 0.5 mL
PR711 // Monoclonal Mouse Anti-Human CD7/PerCP-Cy5.5 Clone CBC.37 // 0.5 mL
PR712 // Polyclonal Rabbit Anti-Human Lambda Light Chains/PerCP-Cy5.5 // 0.5 mL
PR713 // Monoclonal Mouse Anti-Human Plasma Cell/PerCP-Cy5.5 Clone VS38c // 0.5 mL
R0436 // Polyclonal Rabbit Anti-Human Kappa Light Chains/RPE, Rabbit F(ab')2 // 0.2-100mL
R0437 // Polyclonal Rabbit Anti-Human Lambda Light Chains/RPE, Rabbit F(ab')2 // 0.2-100mL
R0439 // Polyclonal Rabbit Anti-Mouse Immunoglobulins/RPE, Rabbit F(ab')2 // 0.2-100mL
R0480 // Polyclonal Goat Anti-Mouse Immunoglobulins/RPE, Goat F(ab')2 // 0.2-100mL
R0715 // Monoclonal Mouse Anti-Human CD13/RPE, Clone WM-47 // 0.2-100mL
R0745 // Monoclonal Mouse Anti-Human CD33/RPE, Clone WM-54 // 0.2-100mL
R0805 // Monoclonal Mouse Anti-Human CD4/RPE, Clone MT310 // 0.2-100mL
R0806 // Monoclonal Mouse Anti-Human CD8/RPE, Clone DK25 // 0.2-100mL
R0807 // Monoclonal Mouse Anti-Human CD2/RPE, Clone MT910 // 0.2-100mL
R0808 // Monoclonal Mouse Anti-Human CD19/RPE, Clone HD37 // 0.2-100mL
R0810 // Monoclonal Mouse Anti-Human CD3/RPE, Clone UCHT1 // 0.2-100mL
R0811 // Monoclonal Mouse Anti-Human CD25, Interleukin-2 Receptor/RPE, Clone ACT-1 // 0.2-100mL
R0841 // Monoclonal Mouse Anti-Human CD11b, C3bi Receptor/RPE, Clone 2LPM19c // 0.2-100mL
R0842 // Monoclonal Mouse Anti-Human CD5/RPE, Clone DK23 // 0.2-100mL
R0843 // Monoclonal Mouse Anti-Human CD45R0/RPE, Clone UCHL1 // 0.2-100mL
R0848 // Monoclonal Mouse Anti-Human CD10/RPE, Clone SS2/36 // 0.2-100mL
R0864 // Monoclonal Mouse Anti-Human CD14/RPE, Clone TÜK4 // 0.2-100mL
R5111 // Polyclonal Rabbit Anti-Human IgM/RPE, Rabbit F(ab')2 // 0.2-100mL
R5112 // Polyclonal Rabbit Anti-Human IgD/RPE, Rabbit F(ab')2 // 0.2-100mL
R7000 // Monoclonal Mouse Anti-Human HLA-ABC Antigen/RPE, Clone W6/32 //

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0.2-100mL
R7012 // Monoclonal Mouse Anti-Human CD16, Fc Gamma Receptor III/RPE, Clone DJ130c // 0.2-100mL
R7013 // Monoclonal Mouse Anti-Human CD20/RPE, Clone B-Ly1 // 0.2-100mL
R7014 // Monoclonal Mouse Anti-Human CD42b, Platelet Glycoprotein Ib/RPE, Clone AN51 // 0.2-100mL
R7058 // Monoclonal Mouse Anti-Human CD41, Platelet Glycoprotein IIb/RPE, Clone 5B12 // 0.2-100mL
R7061 // Monoclonal Mouse Anti-Human CD22/RPE, Clone 4KB128 // 0.2-100mL
R7078 // Monoclonal Mouse Anti-Human CD235a, Glycophorin A/RPE, Clone JC159 // 0.2-100mL
R7086 // Monoclonal Mouse Anti-Human CD45RA/RPE, Clone 4KB5 // 0.2-100mL
R7087 // Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/RPE, Clone T29/33 // 0.2-100mL
R7108 // Monoclonal Mouse Anti-Human CD23/RPE, Clone MHM6 // 0.2-100mL
R7125 // Monoclonal Mouse Anti-Human CD34 Class III/RPE, Clone BIRMA-K3 // 0.2-100mL
R7127 // Monoclonal Mouse Anti-Human CD56/RPE, Clone MOC-1 // 0.2-100mL
R7144 // Monoclonal Mouse Anti-Human CD38/RPE, Clone AT13/5 // 0.2-100mL
R7145 // Monoclonal Mouse Anti-Human CD117, c-kit/RPE, Clone 104D2 // 0.2-100mL
R7159 // Monoclonal Mouse Anti-Human CD79αcy/RPE, Clone HM57 // 0.2-100mL
R7164 // Monoclonal Mouse Anti-Human CD28/RPE, Clone CD28.1 // 0.2-100mL
R7188 // Monoclonal Mouse Anti-Human CD103, Mucosa Lymphocyte Antigen/RPE, Clone Ber-ACT8 // 0.2-100mL
R7189 // Monoclonal Mouse Anti-Human CD1a/RPE, Clone NA1/34 // 0.2-100mL
R7209 // Monoclonal Mouse Anti-Human Myeloperoxidase/RPE, Clone MPO-7 // 0.2-100mL
R7219 // Monoclonal Mouse Anti-Human CD64, Fc Gamma Receptor I/RPE, Clone 10.1 // 0.2-100mL
R7229 // Monoclonal Mouse Anti-Human CD138/RPE, Clone MI15 // 0.2-100mL
R7251 // Monoclonal Mouse Anti-Human CD56/RPE, Clone C5.9 // 0.2-100mL
R7267 // Monoclonal Mouse Anti-Human HLA-DR Antigen/RPE, Clone AB3 // 0.2-100mL
R7272 // Monoclonal Mouse Anti-Human CD79ß/RPE, Clone SN8 // 0.2-100mL
R7277 // Monoclonal Mouse Anti-Human CD7/RPE, Clone CBC.37 // 0.2-100mL
TC051 // MultiMix Triple-Colour Reagent, Anti-Human Kappa Light Chains/FITC + Anti-Human Lambda Light Chains/RPE + Anti-Human CD19/RPE-Cy5 // 0.2-100mL
TC641 // MultiMix Triple-Colour Reagent, Anti-Human CD8/FITC + Anti-Human CD4/RPE + Anti-Human CD3/RPE-Cy5 // 0.2-100mL
TC660 // MultiMix Triple-Colour Reagent, Anti-Human CD8/FITC + Anti-Human CD4/RPE + Anti-Human CD3/APC // 0.2-100mL
TC661 // MultiMix Triple-Colour Reagent, Anti-Human CD16/FITC + Anti-Human CD56/RPE + Anti-Human CD3/APC // 0.2-100mL
TC663 // MultiMix Triple-Colour Reagent, Anti-Human CD20/FITC + Anti-Human CD5/RPE + Anti-Human CD19/APC // 0.2-100mL
TC664 // MultiMix Triple-Colour Reagent, Anti-Human CD5/FITC + Anti-Human CD10/RPE + Anti-Human CD19/APC // 0.2-100mL
TC665 // MultiMix Triple-Colour Reagent, Anti-Human CD103/FITC + Anti-Human CD11c/RPE + Anti-Human CD19/APC // 0.2-100mL
TC666 // MultiMix Triple-Colour Reagent, Anti-Human CD2/FITC + Anti-Human CD34 Class III/RPE + Anti-Human CD5/APC // 0.2-100mL
TC667 // MultiMix Triple-Colour Reagent, Anti-Human MPO/FITC + Anti-Human CD79αcy/RPE + Anti-Human CD3/APC // 0.2-100mL
TC668 // MultiMix Triple-Colour Reagent, Anti-Human TdT/FITC + Anti-Human CD22/RPE + Anti-Human CD3/APC // 0.2-100mL
TC669 // MultiMix Triple-Colour Reagent, Anti-Human CD19/FITC + Anti-Human Lambda Light Chains/RPE + Anti-Human Kappa Light Chains/APC // 0.2-100mL
TC670 // MultiMix Triple-Colour Reagent, Anti-Human Plasma Cell/FITC + Anti-Human Lambda Light Chains/RPE + Anti-Human Kappa Light Chains/APC // 0.2-100mL
TC671 // MultiMix Triple-Colour Reagent, Anti-Human CD38/FITC + Anti-Human CD56/RPE + Anti-Human CD45/APC // 0.2-100mL

Section 1. Identification

TC674 // MultiMix Triple-Colour Reagent, Anti-Human CD38/FITC + Anti-Human CD56/RPE + Anti-Human CD19/APC // 0.2-100mL
TC675 // MultiMix Triple-Colour Reagent, Anti-Human CD71/FITC + Anti-Human CD235a/RPE + Anti-Human CD45/APC // 0.2-100mL
TC677 // MultiMix Triple-Colour Reagent, Anti-Human CD2/FITC + Anti-Human CD7/RPE + Anti-Human CD3/APC // 0.2-100mL
TC683 // MultiMix Triple-Colour Reagent, Anti-Human B Cell (FMC7)/FITC + Anti-Human CD23/RPE + Anti-Human CD19/APC // 0.2-100mL
TC685 // MultiMix Triple-Colour Reagent, Anti-Human CD13/FITC + Anti-Human HLA-DR Antigen/RPE + Anti-Human CD117/APC // 0.2-100mL
TC686 // MultiMix Triple-Colour Reagent, Anti-Human CD33/FITC + Anti-Human CD34/RPE + Anti-Human CD117/APC // 0.2-100mL
TC687 // MultiMix Triple-Colour Reagent, Anti-Human CD41/FITC + Anti-Human CD34/RPE + Anti-Human CD61/APC // 0.2-100mL
TC689 // MultiMix Triple-Colour Reagent, Anti-Human CD19/FITC + Anti-Human CD34/RPE + Anti-Human CD22/APC // 0.2-100mL
TC690 // MultiMix Triple-Colour Reagent, Anti-Human CD3/FITC + Anti-Human CD19/RPE + Anti-Human CD45/APC // 0.2-100mL
X0928 // Control Reagent, Mouse IgG1/RPE // 0.2-100mL
X0929 // Ig Reagent Rabbit F(ab')2/FITC // 0.2-100mL
X0930 // Control Reagent, Rabbit F(ab')2/RPE // 0.2-100mL
X0932 // MultiMix Dual-Colour Control Reagent, Mouse IgG1/FITC + Mouse IgG1/RPE // 0.2-100mL
X0935 // MultiMix Dual-Colour Control Reagent, Rabbit F(ab')2/FITC + Rabbit F(ab')2/RPE // 0.2-100mL
X0949 // MultiMix Dual-Colour Control Reagent, Mouse IgG1/FITC + Mouse IgG2a/RPE // 0.2-100mL
X0950 // Control Reagent, Mouse IgG2a/RPE // 0.2-100mL
X0955 // Control Reagent, Mouse IgG1/RPE-Cy5 // 0.2-100mL
X0956 // MultiMix Triple-Colour Control Reagent, Mouse IgG1/FITC + Mouse IgG1/RPE + Mouse IgG1/RPE-Cy5 // 0.2-100mL
X0957 // MultiMix Triple-Colour Control Reagent, Rabbit F(ab')2/FITC + Rabbit F(ab')2/RPE + Mouse IgG1/RPE-Cy5 // 0.2-100mL
X0968 // Control Reagent, Mouse IgG1/APC // 0.2-100mL
X0978 // MultiMix Triple-Colour Control Reagent, Mouse IgG1/FITC + Mouse IgG1/RPE + Mouse IgG1/APC // 0.2-100mL
X0979 // MultiMix Triple-Colour Control Reagent, Mouse IgG1/FITC + Rabbit F(ab')2/RPE + Rabbit F(ab')2/APC // 0.2-100mL
X0998 // Control Reagent, Rabbit F(ab')2/APC // 0.2-100mLReference number: SDS402

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
Tel: +1 800 227 9770

Agilent Technologies Singapore (International) Pte Ltd.
No. 1 Yishun Avenue 7
Singapore, 768923
Tel. (65) 6276 2622

Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave VIC 3170
Free Call: 1800 802 402

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e-mail address of person responsible for this SDS : SDS@Agilent.com

Section 1. Identification

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1%

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label elements

Additional warning phrases : Not applicable.

Other hazards which do not result in classification : None known.

Section 3. Composition and ingredient information

Substance/mixture : Mixture

CAS number/other identifiers

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Section 4. First aid measures

Description of necessary 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. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Section 4. First aid measures

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides

Special protective actions for fire-fighters : 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.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

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. 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 the information in "For non-emergency personnel".

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).

Methods and material for containment and cleaning up

Section 6. Accidental release measures

Methods for cleaning up : 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

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.

Conditions for safe storage, including any incompatibilities : Specific storage conditions: Please consult the label.
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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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

Individual protection measures

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

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : 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.

Body protection : 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.

Section 8. Exposure controls and personal protection

Other skin protection : 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.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.

Colour : FITC conjugates: Yellow. (Light) / Green.
RPE and PerCP conjugates: Red.
RPE-Cy5 conjugates: Purple.
PerCP-Cy5.5 conjugates: Brown.
APC conjugates: Blue.

Odour : Not available.

Odour threshold : Not available.

pH : 7.2

Melting point/freezing point : 0°C (32°F)

Boiling point, initial boiling point, and boiling range : 100°C (212°F)

Flash point : Not available.

Evaporation rate : Not available.

Flammability : Not applicable.

Lower and upper explosion limit/flammability limit : Not available.

Vapour pressure :

Ingredient name	Vapour Pressure at 20˚C			Vapour pressure at 50˚C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3	-	92.258	12.3	-

Relative vapour density : Not available.

Relative density : Not available.

Solubility(ies) :

Media	Result
water	Soluble

Miscible with water : Yes.

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : May react or be incompatible with oxidising materials.

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Section 11. Toxicological information

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects as well as 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

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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. Empty containers or liners may retain

Section 13. Disposal considerations

some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

New Zealand : Not determined.

United States : Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 15/09/2023

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Key to abbreviations : ADG = Australian Dangerous Goods
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient

Section 16. Any other relevant information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

Classification
Not classified.

Indicates information that has changed from previously issued version.

Notice to reader

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