

SAFETY DATA SHEET

Fluorochrome conjugated antibodies for flow cytometry

Section 1. Identification

1.1 Product identifier

- Product name** : Fluorochrome conjugated antibodies for flow cytometry
- Part no.** : C0222, C7066, C7067, C7069, C7079, C7099, C7132, 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, FR912, 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, R7154, R7159, R7164, R7173, R7179, R7188, R7189, R7209, R7219, R7229, R7251, R7267, R7272, R7277, TC051, TC641, TC654, 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, X0951, X0952, X0955, X0956, X0957, X0968, X0978, X0979, X0998, X7909, K2370
- Validation date** : 5/12/2021

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

- Material uses** : Laboratory use
- Container type: Bottle
- C0222 // Polyclonal Rabbit Anti-Human Kappa Light Chains/APC, Rabbit F(ab')₂ // 0.2-100mL
- 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
- C7069 // Monoclonal Mouse Anti-Human CD4/RPE-Cy5, Clone MT310 // 0.2-100mL
- C7079 // Monoclonal Mouse Anti-Human CD8/RPE-Cy5, Clone DK25 // 0.2-100mL
- C7099 // Monoclonal Mouse Anti-Human CD45, Leucocyte Common Antigen/RPE-Cy5, Clone T29/33 // 0.2-100mL
- C7132 // Monoclonal Mouse Anti-Human CD20/RPE-Cy5, Clone B-Ly1 // 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 CD79acy/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
- 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-

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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
 FR912 // MultiMix Dual-Colour Reagent, Anti-Human CD3/FITC + Anti-Human CD56/RPE // 0.2-100mL"
 PR701 // Monoclonal Mouse Anti-Human CD45, Leucocyte 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 // 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

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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
 R7154 // Monoclonal Mouse Anti-Human CD95, Fas/RPE, Clone DX2 // 0.2-100mL
 R7159 // Monoclonal Mouse Anti-Human CD79 α /RPE, Clone HM57 // 0.2-100mL
 R7164 // Monoclonal Mouse Anti-Human CD28/RPE, Clone CD28.1 // 0.2-100mL
 R7173 // Monoclonal Mouse Anti-Human CD69/RPE, Clone FN50 // 0.2-100mL
 R7179 // Monoclonal Mouse Anti-Human CD27/RPE, Clone M-T271 // 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 CD79 β /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
 TC654 // MultiMix Triple-Colour Reagent, Anti-Human CD4/FITC + Anti-Human CD8/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 CD79 α /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
 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

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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
 X0951 // Control Reagent, Mouse IgG2b/RPE // 0.2-100mL
 X0952 // MultiMix Dual-Colour Control Reagent, Rabbit F(ab')₂/FITC + Mouse IgG1/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 // 0.2-100mL
 X7909 // Control Reagent, Mouse IgG1/PerCP // 0.2-100mL
 K2370 // Anti Human CD45/FITC Anti Human CD34/RPE // CD34Count Kit // 1 mL
 Reference number: SDS402

1.3 Details of the supplier of the safety data sheet

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 Denmark ApS
 Produktionsvej 42
 2600 Glostrup,
 Denmark
 Tel. +45 44 85 95 00

www.Agilent.com

e-mail address of person responsible for this SDS

: SDS@Agilent.com

1.4 Emergency telephone number

In case of emergency

: CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Not classified.

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

2.2 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.

2.3 Other hazards

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

There are no 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.

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

Section 4. First aid measures

4.1 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. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

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.

Section 4. First aid measures

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.

4.3 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. Fire-fighting measures

5.1 Extinguishing media

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

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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

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 spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialized 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".

6.2 Environmental precautions

: Avoid dispersal of spilled 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).

Section 6. Accidental release measures

6.3 Methods and materials for containment and cleaning up

- 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

7.1 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.

7.2 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Industrial applications, Professional applications.
- Industrial sector specific solutions** : Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
None.	

8.2 Exposure controls

- 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.

Section 8. Exposure controls/personal protection

- 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.
- 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

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : FITC conjugates: Yellow. (Light) / Green.
RPE and PerCP conjugates: Red.
RPE-Cy5 conjugates: Purple.
PerCP-Cy5.5 conjugates: Brown.
APC conjugates: Blue.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 7.2
- Melting point** : 0°C (32°F)
- Boiling point** : 100°C (212°F)
- Flash point** : Not available.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : Not available.
- Solubility** : Soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Not available.

Section 10. Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : May react or be incompatible with oxidizing materials.
- 10.6 Hazardous decomposition products** : 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

Not available.

Irritation/Corrosion

Not available.

Sensitization

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 the 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

Section 11. Toxicological information

- Eye contact** : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

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

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

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized 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 some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

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

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

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Section 15. Regulatory information

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Sodium azide	<0.1	Yes.	500	-	1000	-

SARA 304 RQ : 1025641 lbs / 465641 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

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.

Canada : Not determined.

China : Not determined.

Europe : Not determined.

Japan : **Japan inventory (ENCS)**: Not determined.
Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

Section 16. Other information

History

Date of issue	: 05/12/2021
Date of previous issue	: 05/18/2020
Version	: 6
Key to abbreviations	: 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 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 UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

✔ Indicates information that has changed from previously issued version.

Notice to reader

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