




### Section 1. Identification of the Substance/Mixture and the Company

<b>1.1 Product Identifier</b>	Product Name: PDCD1 / PD1 / CD279 (Programmed Cell Death 1); Clone PDCD1/922 (Concentrate) Product Number: RA0255-C.5	
<b>1.2 Intended use</b>	EN: Laboratory reagent. For professional use only. DA: Laboratoriereagens. Kun til professionelt brug. DE: Laboratoriumreagens. Alleen voor professioneel gebruik. EL: Αντιδραστήριο εργαστηρίου. Για επαγγελματική χρήση μόνο. ES: Reactivo de laboratorio. Sólo para uso profesional. FR: Réactif de laboratoire. Pour un usage professionnel uniquement. IT: Laboratorio di reagente. Solo per uso professionale. NL: Laboratoriumreagens. Alleen voor professioneel gebruik. PT: Reagente de laboratório. Para uso profissional. SV: Laboratoriereagens. Endast för yrkesmässig användning.	
<b>1.3 Details of the supplier of the safety data sheet</b>	<b>Manufacturer</b>	ScyTek Laboratories, Inc.
	<b>Address</b>	205 South 600 West Logan, Utah 84321 U.S.A.
	<b>Phone Number</b>	800-729-8350
	<b>Fax Number</b>	435-755-0015
	<b>e-mail</b>	msds@scytek.com
	<b>Website</b>	scytek.com

### Section 2. Hazards Identification

<b>2.1 Classification: Regulation (EC) No 1272/2008 (CLP)</b>	Acute toxicity, Oral (Category 4) – H302 Skin irritation (Category 2) – H315 Eye irritation (Category 2) – H320	
<b>Classification: OSHA 29 CFR 1910.1200 HCS</b>	Acute toxicity, Oral (Category 4) – H302 Skin irritation (Category 2) – H315 Eye irritation (Category 2) – H320	
<b>Classification: Directive 1999/45/EC</b>		<b>Xn, R28, S61, S45, S28 S1/2</b> EN: Harmful DA: Sundhedsskadelig DE: Gesundheitsschädlich EL: Επιβλαβές ES: Nocivo FR: Nocif IT: Nocivo NL: Schadelijk PT: Nocivo SV: Hälsoskadlig  For full text of R- & S- phrases: see Section 15.




<b>2.2 Label Elements</b>	Pictogram(s): 		
	Signal Word:	Warning	
	Hazard Statement(s):	H303 – May be harmful if swallowed. H315 – Causes skin irritation H320 – Causes eye irritation	
	Precautionary statement(s):	P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes. P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	
<b>NFPA Scale: 0-4</b>			
<b>HMIS (U.S.A.) Scale: 0-4</b>	HEALTH	1	
	FLAMMABILITY	0	
	PHYSICAL HAZARD	0	
	PERSONAL PROTECTION	B	
<b>2.3 Other Hazards</b>	<b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT. <b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB.		



### Section 3. Composition and Information on Ingredients

#### 3.2 Chemical Description: Mixture

\*May contain additional non-hazardous proprietary ingredients.

\*May contain additional active ingredients at concentrations <0.1%w/v.

Hazardous Ingredients:	CAS#	EC#	GHS Symbols	%
Bovine Serum Albumin	9048-46-8	232-936-2	 Warning. 2 H319 Causes serious eye irritation.	≤ 1.0
Sodium Chloride	7647-14-5	231-598-3	 Warning. 1. H317 May cause an allergic skin reaction.	≤ 0.9
Potassium Phosphate	7758-11-4	231-834-5	 Warning. 4 H302 Harmful if swallowed. 2 H315 Causes skin irritation. 2 H319 Causes serious eye irritation.	≤ 0.2

Sodium Azide	26628-22-8	247-852-1	 Danger 1, 2 H300 Fatal if swallowed., H310 Fatal in contact with skin.  Warning. 1. H410 Very toxic to aquatic life with long lasting effects.	≤ 0.1
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### Section 4. First Aid Measures

#### 4.1 Description of first aid measures

**Eye Contact:** Check for and remove contact lenses. Immediately flush eyes with copious amounts of water. Get medical attention if irritation persists.

**Skin Contact:** Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.

**Inhalation:** If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms worsen.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

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

See section 2.2 and 11.

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

No data available

### Section 5. Fire Fighting Measures

<b>5.1 Extinguishing Media</b>	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
<b>5.2 Special hazards arising from the substance or mixture</b>	No unusual fire or explosion hazards expected.
<b>5.3 Advice for firefighters</b>	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

### Section 6. Accidental Release Measures

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

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus.

#### 6.2 Environmental precautions

Keep material away from heat, flame, ignition sources, and reactive materials. Don't allow product to enter drain.

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

Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

### Section 7. Handling and Storage

#### 7.1 Precautions for safe handling.

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Avoid breathing vapor.

**7.2 Conditions for safe storage, including any incompatibilities.**

Store in well ventilated area.  
Keep container tightly closed.  
Store at 2-8 °C.

**7.3 Specific end use(s).**

See section 1.2

**Section 8. Exposure Controls / Personal Protection**

<b>8.1 Control parameters</b>	<b>Exposure Limits:</b> Sodium Azide: ACGIH TLV: 0.29/mg/m <sup>3</sup> ceiling NIOSH REL-C: 0.3mg/m <sup>3</sup> skin
<b>8.2 Exposure controls</b>	<b>Personal Protective Equipment (PPE):</b> <b>Eye/Face protection.</b> Safety glasses or goggles are required. <b>Skin protection.</b> Protective clothing is required. <b>Hand protection.</b> Chemical resistant gloves are required. Glove material must be resistant to the components of this product. Consult glove manufacturer for specific recommendations of appropriate material and thickness of glove. <b>Respiratory protection.</b> Avoid breathing vapor. <b>Environmental exposure controls.</b> Avoid releasing large quantities into the environment. No additional information.
<b>Engineering Controls</b>	Working area should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Unknown
<b>pH</b>	7.4 ± 0.2
<b>Melting Point/ Freezing Point</b>	Unknown
<b>Initial Boiling Point</b>	Unknown
<b>Flash Point</b>	Unknown
<b>Evaporation Rate</b>	Unknown
<b>Flammability (solid, gas)</b>	Unknown
<b>Upper/Lower Flammability Limits</b>	Unknown
<b>Vapor Pressure</b>	Unknown
<b>Vapor Density</b>	Unknown
<b>Relative Density</b>	Unknown
<b>Solubility(ies)</b>	Water
<b>Partition Coefficient: n-octanol/water</b>	Unknown

<b>Auto-Ignition Temperature</b>	Unknown
<b>Decomposition Temperature</b>	Unknown
<b>Viscosity</b>	Unknown
<b>Explosive Properties</b>	Solutions containing Sodium azide may react with lead and copper plumbing to form explosive metal azides.
<b>Oxidizing Properties</b>	Unknown

### Section 10. Stability and Reactivity

<b>10.1 Reactivity</b>	Sodium Azide may react with lead and copper plumbing to form explosive metal azides.
<b>10.2 Chemical Stability</b>	Stable under normal temperatures and pressures.
<b>10.3 Possibility of Hazardous Reactions</b>	No hazardous reactions known.
<b>10.4 Conditions to Avoid</b>	Fire, static electricity, direct sunlight.
<b>10.5 Incompatible Materials</b>	Strong acids, bases and oxidizers
<b>10.6 Hazardous Decomposition Materials</b>	May produce toxic fumes of carbon oxides, phosphorus oxides, and nitrogen oxides under fire conditions.

### Section 11. Toxicological Information

<b>11.1 Information on Toxicological Effects.</b>	<b>Acute Toxicity.</b> Sodium Azide: LD <sub>50</sub> =27mg/kg (oral-rat) <b>Skin Corrosion/Irritation.</b> May be irritating to skin and mucous membranes. <b>Serious Eye Damage/Irritation.</b> May be irritating to the eye. <b>Respiratory or skin sensitization.</b> No relevant data available. <b>Germ Cell Mutagenicity.</b> Sodium Azide is a known mutagen.
<b>Carcinogenicity.</b>	<b>International Agency for Research on Cancer (IARC).</b> None of the components are listed. <b>National Toxicology Program (NTP).</b> None of the components are listed.

### Section 12. Ecological Information

<b>12.1 Toxicity</b>	<b>Fish:</b> No relevant studies identified. <b>Crustacea:</b> No relevant studies identified. <b>Algae/Aquatic Plants:</b> No relevant studies identified. <b>Other Organisms:</b> No relevant studies identified.
<b>12.2 Persistence and Degradability.</b>	No relevant studies identified.
<b>12.3 Bioaccumulative Potential.</b>	No relevant studies identified.
<b>12.4 Mobility in Soil.</b>	Miscible in water. May spread in water systems. This component is non-volatile.
<b>Additional Remarks</b>	None.
<b>12.5 Results of PBT and vPvB Assessment.</b>	<b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT. <b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB.

### Section 13. Disposal Considerations

<b>13.1 Waste Disposal Methods.</b>	Sewage disposal is discouraged. Waste should not be disposed of by release to sewers. Dispose waste in accordance with federal, state and local environmental control regulations.
<b>Product/Packaging Disposal.</b>	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
<b>Other Disposal Recommendations.</b>	No relevant data available.

### Section 14. Transport Information

<b>14.1 UN Number DOT, IATA,IMDG, ADR</b>	DOT: Not dangerous goods. ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.
<b>14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR</b>	ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. DOT: Not dangerous goods.
<b>14.3 Transport Hazard Class(es)</b>	<b>DOT:</b> Not dangerous goods. <b>IATA:</b> Not dangerous goods. <b>IMDG:</b> Not dangerous goods. <b>ADR/RID:</b> Not dangerous goods.
<b>14.4 Packing Group DOT, IATA,IMDG, ADR</b>	ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. DOT: Not dangerous goods.
<b>14.5 Environmental Hazards</b>	<b>Marine Pollutant:</b> No
<b>14.6 Special Precautions for User</b>	Not applicable.

### Section 15. Regulatory Information

<b>15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.</b>	
<b>Extremely Hazardous Substances; Section 355</b>	Sodium Azide is listed.
<b>Toxic Substances Control Act; TSCA</b>	All of the components in this mixture are listed.
<b>California Proposition 65</b>	None of the components in this mixture are listed.
<b>Right To Know Components</b>	Massachusetts: Sodium azide CAS-No. 26628-22-8 Pennsylvania: Water CAS No. 7732-18-5 Sodium azide CAS No. 26628-22-8 Serum albumin CAS-No. 9048-46-8 New Jersey: Water CAS No. 7732-18-5 Sodium azide CAS No. 26628-22-8 Serum albumin CAS-No. 9048-46-8
<b>15.2 Chemical Safety Assessment</b>	No Chemical Safety Assessment has been carried out for this substance/mixture by ScyTek Laboratories, Inc.

<b>R phrases</b>	<p><b>R25</b>                  EN: Toxic if swallowed.                  DA: Giftig ved indtagelse.                  DE: Giftig beim Verschlucken.                  EL: Τοξικό σε περίπτωση καταπόσεως.                  ES: Tóxico por ingestión.                  FR: Toxique en cas d'ingestion.                  IT: Tossico per ingestione.                  NL: Vergiftig bij opname door de mond.                  PT: Tóxico por ingestão.                  SV: Giftigt vid förtäring.</p>
<b>S phrases</b>	<p><b>S1/2</b>                  EN: Keep locked up and out of the reach of children.                  DA: Opbevares under lås og utilgængeligt for børn.                  DE: Unter Verschluss und für Kinder unzugänglich aufbewahren.                  EL: Φυλάξτε το κλειδωμένο και μακριά από παιδιά.                  ES: Consérvese bajo llave y manténgase fuera del alcance de los niños.                  FR: Conserver sous clef et hors de portee des enfants.                  IT: Conservare sotto chiave e fuori della portata dei bambini.                  NL: Achter slot en buiten bereik van kinderen bewaren.                  PT: Guardar fechado à chave e fora do alcance das crianças.                  SV: Förvaras i låst utrymme och oåtkomligt för barn.</p> <p><b>S28</b>                  EN: After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).                  DA: Kommer stof på huden vaskes straks med store mængder ... (angives af fabrikanten).                  DE: Bei Berührung mit der Haut sofort abwaschen mit viel ... (vom Hersteller anzugeben).                  EL: Σε περίπτωση επαφής με το δέρμα, πλυθείτε αμέσως με άφθονο ... (το είδος του υγρού καθορίζεται από τον παραγωγό).                  ES: En caso de contacto con la piel, lávese inmediata y abundantemente con ... (productos a especificar por el fabricante).                  FR: Après contact avec la peau, se laver immédiatement et abondamment avec ... (produits appropriés à indiquer par le fabricant).                  IT: In caso di contatto con la pelle lavarsi immediatamente ed abbondantemente con ... (prodotti idonei da indicarsi da parte del fabbricante).                  NL: Na aanraking met de huid onmiddellijk wassen met veel ... (aan te geven door de fabrikant).                  PT: Após contacto com a pele, lavar imediata e abundantemente com ... (produtos adequados a indicar pelo produtor).                  SV: Vid kontakt med huden tvätta genast med mycket ... (anges av tillverkaren).</p> <p><b>S45</b>                  EN: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).                  DA: Ved ulykkestilfælde eller ved ildebefindende er omgående lægebehandling nødvendig; vis etiketten, hvis det er muligt.                  DE: Bei Unfall oder Unwohlsein sofort Arzt zuziehen (wenn möglich, dieses Etikett vorzeigen).                  EL: Σε περίπτωση ατυχήματος ή αν αισθανθείτε αδιαθεσία ζητήστε αμέσως ιατρική συμβουλή (δείξτε την ετικέτα αν είναι δυνατό).                  ES: En caso de accidente o malestar, acúdase inmediatamente al médico (si es posible, muéstresele la etiqueta).                  FR: En cas d'accident ou de malaise, consulter immédiatement un medecin (si possible lui montrer l'etiquette).                  IT: In caso di incidente o di malessere consultare immediatamente il medico (se possibile, mostrargli l'etichetta).                  NL: Bij een ongeval of indien men zich onwel voelt, onmiddellijk een arts raadplegen (indien mogelijk hem dit etiket tonen).                  PT: Em caso de acidente ou de indisposição, consultar imediatamente o médico (se possível mostrar-lhe o rótulo).                  SV: Vid olycksfall, illamående eller annan påverkan, kontakta omedelbart läkare. Visa om möjligt etiketten.</p>

	<p><b>S61</b>  EN: Avoid release to the environment. Refer to special instructions/Safety data sheets.  DA: Undgå udledning til miljøet. Se særlig vejledning/leverandørbrugsanvisning.  DE: Freisetzung in die Umwelt vermeiden. Besondere Anweisungen einholen/Sicherheitsdatenblatt zu Rate ziehen.  EL: Αποφύγετε την ελευθέρωσή του στο περιβάλλον. Αναφερθείτε σε ειδικές οδηγίες/ελτίο δεδομένων ασφαλείας.  ES: Evítese su liberación al medio ambiente. Recábense instrucciones específicas de la ficha de datos de seguridad.  FR: Eviter le rejet dans l'environnement. Consulter les instructions spéciales/la fiche de données de securite.  IT: Non disperdere nell'ambiente. Riferirsi alle istruzioni speciali/ schede informative in materia di sicurezza.  NL: Voorkom lozing in het milieu. Vraag om speciale instructies/veiligheidskaart.  PT: Evitar a libertação para o ambiente. Obter instruções específicas/fichas de segurança.  SV: Undvik utsläpp till miljön. Läs särskilda instruktioner/varuinformationsblad.</p>
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**Section 16. Other Information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.