



Material Safety Data Sheet

According to 91/ 155 EC

2-Cat RIA

Catalogue Nr : KIPL1500
Revision N r : 031106

1. Identification of substance

Product details:

Trade name: 2-Cat RIA

Standards A-F
Controls 1+2Manufacturer/ Supplier: **DIAsource ImmunoAssays S.A.**Rue de l'Industrie, 8
1400 Nivelles, Belgique
Tél. +32 67 88 99 99
Fax. +32 67 88 99 90**2. Composition/ Information on ingredients**

Chemical characterization: Preparation.

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components:	CAS-No.	R-phrases	S-phrases
Hydrochloric acid (<0.1 N)		36/38	26

3. Hazard identification

Xi Irritant

Most important hazards:

Specific hazards:

Main symptoms:

Classification:

4. First aid measures

General information:	No special measures required
After inhalation:	Supply fresh air; consult doctor in case of complaints
After skin contact:	Immediately wash with water and soap and rinse thoroughly
After eye contact:	Rinse opened eye for several minutes under running water and consult doctor
After swallowing:	Drink plenty of water. Call for a doctor immediately.

5. Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/ collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.

7. Handling and storage**Handling**

Information for safe handling: No special measures required.

Information about fire and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed

Class according to regulation on flammable liquids: Void

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

- form:	liquid
- colour:	colourless
- odour:	odourless
- pH-value:	
- decomposition temperature:	undetermined
- flashpoint:	not applicable
- autoignition temperature:	product is not selfigniting
- explosion properties:	not applicable
- vapour pressure:	undetermined
- vapour density:	undetermined
- density:	undetermined
- solubility:	water: 100%

10. Stability and reactivity

Conditions to avoid: No decomposition if used according to specifications

Materials to avoid: No dangerous reactions known

Hazardous decomposition products: No dangerous decomposition products known

11. Toxicological information

After inhalation of aerosols:

After skin contact:

After eye contact:

After swallowing:

Additional information: The product is to be handled with caution like other chemicals.

Hydrochloric acid (1 N): Irritant. Irritating to eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

12. Ecological information

General notes:	Generally not hazardous for water
Bioaccumulation:	no bioaccumulation known
Ecotoxicity:	no ecotoxicity known

13. Disposal considerations

Waste from residues: Disposal must be made according to official regulations

Contaminated packaging: Disposal must be made according to official regulations

Under www.retrologistik.de you find references and partners.

14. Transport information

international regulations:

- land (RID/ ADR/ DoT49 CFR):
- inland waterways (ADNR):
- sea (IMDG):
- air (ICAO-TI, IATA-DGR):
- UN classification number:
- Additional regulations:

Apply the international and national transportation regulations.

15. Regulatory information

Regulations to the chemical product:

Labelling: Observe the general safety regulations when handling chemicals. The Product is not subject to identification regulations under EU directives and the ordinance on hazardous materials (German GefStoffV).

Safety phrases: This material and its container must be disposed of as hazardous waste.

Water hazard class: Generally not hazardous for water.

R-phrases: 36/38 Irritate the eyes and the skin.

S-phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other information

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Material Safety Data Sheet

According to 91/ 155 EC

Revision nr : 031106

Acylation Buffer

2-Cat RIA

1. Identification of substance

Product details:

Trade name: 2-Cat RIA

Acylation Buffer

Manufacturer/ Supplier: **DIAsource ImmunoAssays S.A.**

Rue de l'Industrie, 8
1400 Nivelles, Belgique
Tél. +32 67 88 99 99
Fax. +32 67 88 99 90

2. Composition/ Information on ingredients

Chemical characterization: Preparation.

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components: CAS-No. R-phrases S-phrases

3. Hazard identification

Most important hazards:

Specific hazards:

Main symptoms:

Classification:

4. First aid measures

General information: No special measures required

After inhalation: Supply fresh air; consult doctor in case of complaints

After skin contact: Immediately wash with water and soap and rinse thoroughly

After eye contact: Rinse opened eye for several minutes under running water and consult doctor

After swallowing: Drink plenty of water. Call for a doctor

5. Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/ collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Acylation Buffer

2-Cat RIA

7. Handling and storage**Handling**

Information for safe handling: No special measures required.

Information about fire and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed

Class according to regulation on flammable liquids: Void

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

- form: liquid
- colour: colourless
- odour: odourless
- pH-value:
- decomposition temperature: undetermined
- flashpoint: not applicable
- autoignition temperature: product is not selfigniting
- explosion properties: not applicable
- vapour pressure: undetermined
- vapour density: undetermined
- density: undetermined
- solubility: water: 100%

10. Stability and reactivity

Conditions to avoid: No decomposition if used according to specifications

Materials to avoid: No dangerous reactions known

Hazardous decomposition products: No dangerous decomposition products known

11. Toxicological information

After inhalation of aerosols:

After skin contact:

After eye contact:

After swallowing:

Additional information: The product is to be handled with caution like other chemicals.

Acylation Buffer

2-Cat RIA

12. Ecological information

General notes: Generally not hazardous for water
Mobility:
Persistence/ degradability:
Bioaccumulation: no bioaccumulation known
Ecotoxicity: no ecotoxicity known

13. Disposal considerations

Waste from residues: Disposal must be made according to official regulations
Contaminated packaging: Disposal must be made according to official regulations
Under www.retrologistik.de you find references and partners.

14. Transport information

international regulations:
- land (RID/ ADR/ DoT49 CFR):
- inland waterways (ADNR):
- sea (IMDG):
- air (ICAO-TI, IATA-DGR):
- UN classification number:
- Additional regulations:

Apply the international and national transportation regulations.

15. Regulatory information

Regulations to the chemical product:

Labelling: Observe the general safety regulations when handling chemicals. The Product is not subject to identification regulations under EU directives and the ordinance on hazardous materials (German GefStoffV).

Safety phrases: This material and its container must be disposed of as hazardous waste.

Water hazard class: Generally not hazardous for water.

16. Other information

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Assay Buffer

2-Cat RIA

1. Identification of substance

Product details:

Trade name: 2-Cat RIA

Assay BufferManufacturer/ Supplier: **DIAsource ImmunoAssays S.A.**Rue de l'Industrie, 8
1400 Nivelles, Belgique
Tél. +32 67 88 99 99
Fax. +32 67 88 99 90**2. Composition/ Information on ingredients**

Chemical characterization: Preparation.

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components:	CAS-No.	R-phrases	S-phrases
Hydrochloric acid (1 M)		36/38	26

3. Hazard identification

C Corrosive

Most important hazards:

Specific hazards:

Main symptoms:

Classification:

4. First aid measures

General information:	No special measures required
After inhalation:	Supply fresh air; consult doctor in case of complaints
After skin contact:	Immediately wash with water and soap and rinse thoroughly
After eye contact:	Rinse opened eye for several minutes under running water and consult doctor
After swallowing:	Drink plenty of water. Call for a doctor

5. Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required

Assay Buffer

2-Cat RIA

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/ collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. Handling and storage**Handling**

Information for safe handling: No special measures required.

Information about fire and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed

Class according to regulation on flammable liquids: Void

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

- form: liquid
- colour: colourless
- odour: odourless
- pH-value:
- decomposition temperature: undetermined
- flashpoint: not applicable
- autoignition temperature: product is not selfigniting
- explosion properties: not applicable
- vapour pressure: undetermined
- vapour density: undetermined
- density: undetermined
- solubility: water: 100%

10. Stability and reactivity

Conditions to avoid: No decomposition if used according to specifications

Materials to avoid: No dangerous reactions known

Hazardous decomposition products: No dangerous decomposition products known

Assay Buffer

2-Cat RIA

11. Toxicological information

After inhalation of aerosols:
After skin contact:
After eye contact:
After swallowing:

Additional information: The product is to be handled with caution like other chemicals.

12. Ecological information

General notes: Generally not hazardous for water
Mobility:
Persistence/ degradability:
Bioaccumulation: no bioaccumulation known
Ecotoxicity: no ecotoxicity known

13. Disposal considerations

Waste from residues: Disposal must be made according to official regulations
Contaminated packaging: Disposal must be made according to official regulations
Under www.retrologistik.de you find references and partners.

14. Transport information

international regulations:
- land (RID/ ADR/ DoT49 CFR):
- inland waterways (ADNR):
- sea (IMDG):
- air (ICAO-TI, IATA-DGR):
- UN classification number:
- Additional regulations:

Apply the international and national transportation regulations.

15. Regulatory information

Regulations to the chemical product:

Labelling: Observe the general safety regulations when handling chemicals. The Product is not subject to identification regulations under EU directives and the ordinance on hazardous materials (German GefStoffV).

Safety phrases: This material and its container must be disposed of as hazardous waste.

Water hazard class: Generally not hazardous for water.

16. Other information

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Material Safety Data Sheet

According to 91/ 155 EC

Revision nr : 031106

Extraction Buffer

2-Cat RIA

1. Identification of substance

Product details:

Trade name: 2-Cat RIA

Extraction Buffer

Manufacturer/ Supplier: **DIAsource ImmunoAssays S.A.**

Rue de l'Industrie, 8
1400 Nivelles, Belgique
Tél. +32 67 88 99 99
Fax. +32 67 88 99 90

2. Composition/ Information on ingredients

Chemical characterization: Preparation.

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components: CAS-No. R-phrases S-phrases

3. Hazard identification

Most important hazards:

Specific hazards:

Main symptoms:

Classification:

4. First aid measures

General information: No special measures required

After inhalation: Supply fresh air; consult doctor in case of complaints

After skin contact: Immediately wash with water and soap and rinse thoroughly

After eye contact: Rinse opened eye for several minutes under running water and consult doctor

After swallowing: Drink plenty of water. Call for a doctor

5. Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/ collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Extraction Buffer

2-Cat RIA

7. Handling and storage**Handling**

Information for safe handling: No special measures required.

Information about fire and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed

Class according to regulation on flammable liquids: Void

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

- form: liquid
- colour: colourless
- odour: odourless
- pH-value:
- decomposition temperature: undetermined
- flashpoint: not applicable
- autoignition temperature: product is not selfigniting
- explosion properties: not applicable
- vapour pressure: undetermined
- vapour density: undetermined
- density: undetermined
- solubility: water: 100%

10. Stability and reactivity

Conditions to avoid: No decomposition if used according to specifications

Materials to avoid: No dangerous reactions known

Hazardous decomposition products: No dangerous decomposition products known

11. Toxicological information

After inhalation of aerosols:

After skin contact:

After eye contact:

After swallowing:

Additional information: The product is to be handled with caution like other chemicals.

Extraction Buffer

2-Cat RIA

12. Ecological information

General notes: Generally not hazardous for water
Mobility:
Persistence/ degradability:
Bioaccumulation: no bioaccumulation known
Ecotoxicity: no ecotoxicity known

13. Disposal considerations

Waste from residues: Disposal must be made according to official regulations
Contaminated packaging: Disposal must be made according to official regulations
Under www.retrologistik.de you find references and partners.

14. Transport information

international regulations:
- land (RID/ ADR/ DoT49 CFR):
- inland waterways (ADNR):
- sea (IMDG):
- air (ICAO-TI, IATA-DGR):
- UN classification number:
- Additional regulations:

Apply the international and national transportation regulations.

15. Regulatory information

Regulations to the chemical product:

Labelling: Observe the general safety regulations when handling chemicals. The Product is not subject to identification regulations under EU directives and the ordinance on hazardous materials (German GefStoffV).

Safety phrases: This material and its container must be disposed of as hazardous waste.

Water hazard class: Generally not hazardous for water.

16. Other information

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Hydrochloric Acid

2-Cat RIA

1. Identification of substance

Product details:

Trade name: 2-Cat RIA

Hydrochloric AcidManufacturer/ Supplier: **DIAsource ImmunoAssays S.A.**Rue de l'Industrie, 8
1400 Nivelles, Belgique
Tél. +32 67 88 99 99
Fax. +32 67 88 99 90**2. Composition/ Information on ingredients**

Chemical characterization: Preparation.

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components:	CAS-No.	R-phrases	S-phrases
Hydrochloric acid (0.025 M)		36/38	26

3. Hazard identification

Xi Irritant

Most important hazards:

Specific hazards:

Main symptoms:

Classification:

4. First aid measures

General information:	No special measures required
After inhalation:	Supply fresh air; consult doctor in case of complaints
After skin contact:	Immediately wash with water and soap and rinse thoroughly
After eye contact:	Rinse opened eye for several minutes under running water and consult doctor
After swallowing:	Drink plenty of water. Call for a doctor

5. Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required

Hydrochloric Acid

2-Cat RIA

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/ collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. Handling and storage**Handling**

Information for safe handling: No special measures required.

Information about fire and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed

Class according to regulation on flammable liquids: Void

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

- form: liquid
- colour: yellow
- odour: odourless
- pH-value:
- decomposition temperature: undetermined
- flashpoint: not applicable
- autoignition temperature: product is not selfigniting
- explosion properties: not applicable
- vapour pressure: undetermined
- vapour density: undetermined
- density: undetermined
- solubility: water: 100%

10. Stability and reactivity

Conditions to avoid: No decomposition if used according to specifications

Materials to avoid: No dangerous reactions known

Hazardous decomposition products: No dangerous decomposition products known

Hydrochloric Acid

2-Cat RIA

11. Toxicological information

After inhalation of aerosols:
After skin contact:
After eye contact:
After swallowing:

Additional information: The product is to be handled with caution like other chemicals.

12. Ecological information

General notes: Generally not hazardous for water
Mobility:
Persistence/ degradability:
Bioaccumulation: no bioaccumulation known
Ecotoxicity: no ecotoxicity known

13. Disposal considerations

Waste from residues: Disposal must be made according to official regulations
Contaminated packaging: Disposal must be made according to official regulations
Under www.retrologistik.de you find references and partners.

14. Transport information

international regulations:
- land (RID/ ADR/ DoT49 CFR):
- inland waterways (ADNR):
- sea (IMDG):
- air (ICAO-TI, IATA-DGR):
- UN classification number:
- Additional regulations:

Apply the international and national transportation regulations.

15. Regulatory information

Regulations to the chemical product:

Labelling: Observe the general safety regulations when handling chemicals. The Product is not subject to identification regulations under EU directives and the ordinance on hazardous materials (German GefStoffV).

Safety phrases: This material and its container must be disposed of as hazardous waste.

Water hazard class: Generally not hazardous for water.

Risk phrases: 36/38 Irritate eyes and skin

S phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other information

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Material Safety Data Sheet

According to 91/ 155 EC

Revision nr : 031106

Coenzyme

2-Cat RIA

1. Identification of substance

Product details:

Trade name: 2-Cat RIA

Coenzyme

Manufacturer/ Supplier: **DIAsource ImmunoAssays S.A.**

Rue de l'Industrie, 8
1400 Nivelles, Belgique
Tél. +32 67 88 99 99
Fax. +32 67 88 99 90

2. Composition/ Information on ingredients

Chemical characterization: Preparation.

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components: CAS-No. R-phrases S-phrases

3. Hazard identification

Most important hazards:

Specific hazards:

Main symptoms:

Classification:

4. First aid measures

General information: No special measures required

After inhalation: Supply fresh air; consult doctor in case of complaints

After skin contact: Immediately wash with water and soap and rinse thoroughly

After eye contact: Rinse opened eye for several minutes under running water and consult doctor

After swallowing: Drink plenty of water. Call for a doctor

5. Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/ collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Coenzyme

2-Cat RIA

7. Handling and storage**Handling**

Information for safe handling: No special measures required.

Information about fire and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed

Class according to regulation on flammable liquids: Void

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

- form: liquid
- colour: colourless
- odour: odourless
- pH-value:
- decomposition temperature: undetermined
- flashpoint: not applicable
- autoignition temperature: product is not selfigniting
- explosion properties: not applicable
- vapour pressure: undetermined
- vapour density: undetermined
- density: undetermined
- solubility: water: 100%

10. Stability and reactivity

Conditions to avoid: No decomposition if used according to specifications

Materials to avoid: No dangerous reactions known

Hazardous decomposition products: No dangerous decomposition products known

11. Toxicological information

After inhalation of aerosols:

After skin contact:

After eye contact:

After swallowing:

Additional information: The product is to be handled with caution like other chemicals.

Coenzyme

2-Cat RIA

12. Ecological information

General notes: Generally not hazardous for water
Mobility:
Persistence/ degradability:
Bioaccumulation: no bioaccumulation known
Ecotoxicity: no ecotoxicity known

13. Disposal considerations

Waste from residues: Disposal must be made according to official regulations
Contaminated packaging: Disposal must be made according to official regulations
Under www.retrologistik.de you find references and partners.

14. Transport information

international regulations:
- land (RID/ ADR/ DoT49 CFR):
- inland waterways (ADNR):
- sea (IMDG):
- air (ICAO-TI, IATA-DGR):
- UN classification number:
- Additional regulations:

Apply the international and national transportation regulations.

15. Regulatory information

Regulations to the chemical product:

Labelling: Observe the general safety regulations when handling chemicals. The Product is not subject to identification regulations under EU directives and the ordinance on hazardous materials (German GefStoffV).

Safety phrases: This material and its container must be disposed of as hazardous waste.

Water hazard class: Generally not hazardous for water.

16. Other information

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Material Safety Data Sheet

According to 91/ 155 EC

Revision nr : 031106

Enzyme Buffer

2-Cat RIA

1. Identification of substance

Product details:

Trade name: 2-Cat RIA

Enzyme Buffer

Manufacturer/ Supplier: **DIAsource ImmunoAssays S.A.**

Rue de l'Industrie, 8
1400 Nivelles, Belgique
Tél. +32 67 88 99 99
Fax. +32 67 88 99 90

2. Composition/ Information on ingredients

Chemical characterization: Preparation.

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components:	CAS-No.	R-phrases	S-phrases
Hydrochloric acid (1 M)		36/38	26

3. Hazard identification

Most important hazards:

Specific hazards:

Main symptoms:

Classification:

4. First aid measures

General information: No special measures required

After inhalation: Supply fresh air; consult doctor in case of complaints

After skin contact: Immediately wash with water and soap and rinse thoroughly

After eye contact: Rinse opened eye for several minutes under running water and consult doctor

After swallowing: Drink plenty of water. Call for a doctor

5. Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/ collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Enzyme Buffer

2-Cat RIA

7. Handling and storage**Handling**

Information for safe handling: No special measures required.

Information about fire and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed

Class according to regulation on flammable liquids: Void

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

- form: liquid
- colour: colourless
- odour: odourless
- pH-value:
- decomposition temperature: undetermined
- flashpoint: not applicable
- autoignition temperature: product is not selfigniting
- explosion properties: not applicable
- vapour pressure: undetermined
- vapour density: undetermined
- density: undetermined
- solubility: water: 100%

10. Stability and reactivity

Conditions to avoid: No decomposition if used according to specifications

Materials to avoid: No dangerous reactions known

Hazardous decomposition products: No dangerous decomposition products known

11. Toxicological information

After inhalation of aerosols:

After skin contact:

After eye contact:

After swallowing:

Enzyme Buffer

2-Cat RIA

Additional information: The product is to be handled with caution like other chemicals.
Hydrochloric acid (1 N): Irritant. Irritating to eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

12. Ecological information

General notes: Generally not hazardous for water
Mobility:
Persistence/ degradability:
Bioaccumulation: no bioaccumulation known
Ecotoxicity: no ecotoxicity known

13. Disposal considerations

Waste from residues: Disposal must be made according to official regulations
Contaminated packaging: Disposal must be made according to official regulations
Under www.retrologistik.de you find references and partners.

14. Transport information

international regulations:
- land (RID/ ADR/ DoT49 CFR):
- inland waterways (ADNR):
- sea (IMDG):
- air (ICAO-TI, IATA-DGR):
- UN classification number:
- Additional regulations:

Apply the international and national transportation regulations.

15. Regulatory information

Regulations to the chemical product:

Labelling: Observe the general safety regulations when handling chemicals. The Product is not subject to identification regulations under EU directives and the ordinance on hazardous materials (German GefStoffV).

Safety phrases: This material and its container must be disposed of as hazardous waste.

Water hazard class: Generally not hazardous for water.

R-phrases: 36/38 Irritate the eyes and the skin.

S-phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other information

This information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability for its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.



Material Safety Data Sheet

According to 91/ 155 EC

Revision nr : 031106

Enzyme

2-Cat RIA

1. Identification of substance

Product details:

Trade name: 2-Cat RIA

Enzyme

Manufacturer/ Supplier: **DIAsource ImmunoAssays S.A.**

Rue de l'Industrie, 8
1400 Nivelles, Belgique
Tél. +32 67 88 99 99
Fax. +32 67 88 99 90

2. Composition/ Information on ingredients

Chemical characterization: Preparation.

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components: CAS-No. R-phrases S-phrases

3. Hazard identification

Most important hazards:

Specific hazards:

Main symptoms:

Classification:

4. First aid measures

General information: No special measures required

After inhalation: Supply fresh air; consult doctor in case of complaints

After skin contact: Immediately wash with water and soap and rinse thoroughly

After eye contact: Rinse opened eye for several minutes under running water and consult doctor

After swallowing: Drink plenty of water. Call for a doctor

5. Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/ collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Enzyme

2-Cat RIA

7. Handling and storage**Handling**

Information for safe handling: No special measures required.

Information about fire and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed

Class according to regulation on flammable liquids: Void

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

- form: lyophilized
- colour: weak brown
- odour: odourless
- pH-value:
- decomposition temperature: undetermined
- flashpoint: not applicable
- autoignition temperature: product is not selfigniting
- explosion properties: not applicable
- vapour pressure: undetermined
- vapour density: undetermined
- density: undetermined
- solubility: water: 100%

10. Stability and reactivity

Conditions to avoid: No decomposition if used according to specifications

Materials to avoid: No dangerous reactions known

Hazardous decomposition products: No dangerous decomposition products known

11. Toxicological information

After inhalation of aerosols:

After skin contact:

After eye contact:

After swallowing:

Enzyme

2-Cat RIA

12. Ecological information

General notes: Generally not hazardous for water
Mobility:
Persistence/ degradability:
Bioaccumulation: no bioaccumulation known
Ecotoxicity: no ecotoxicity known

13. Disposal considerations

Waste from residues: Disposal must be made according to official regulations
Contaminated packaging: Disposal must be made according to official regulations
Under www.retrologistik.de you find references and partners.

14. Transport information

international regulations:
- land (RID/ ADR/ DoT49 CFR):
- inland waterways (ADNR):
- sea (IMDG):
- air (ICAO-TI, IATA-DGR):
- UN classification number:
- Additional regulations:

Apply the international and national transportation regulations.

15. Regulatory information

Regulations to the chemical product:

Labelling: Observe the general safety regulations when handling chemicals. The Product is not subject to identification regulations under EU directives and the ordinance on hazardous materials (German GefStoffV).

Safety phrases: This material and its container must be disposed of as hazardous waste.

Water hazard class: Generally not hazardous for water.

16. Other information

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Material Safety Data Sheet

According to 91/ 155 EC

Revision nr : 031106

Antiserum

2-Cat RIA

1. Identification of substance

Product details:

Trade name: 2-Cat RIA

Adrenaline, Noradrenaline Antiserum

Manufacturer/ Supplier: **DIAsource ImmunoAssays S.A.**

Rue de l'Industrie, 8
1400 Nivelles, Belgique
Tél. +32 67 88 99 99
Fax. +32 67 88 99 90

2. Composition/ Information on ingredients

Chemical characterization: Preparation.

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components: CAS-No. R-phrases S-phrases

3. Hazard identification

Most important hazards:

Specific hazards:

Main symptoms:

Classification:

4. First aid measures

General information: No special measures required

After inhalation: Supply fresh air; consult doctor in case of complaints

After skin contact: Immediately wash with water and soap and rinse thoroughly

After eye contact: Rinse opened eye for several minutes under running water and consult doctor

After swallowing: Drink plenty of water. Call for a doctor

5. Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/ collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Antiserum

2-Cat RIA

7. Handling and storage**Handling**

Information for safe handling: No special measures required.

Information about fire and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed

Class according to regulation on flammable liquids: Void

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

- form: liquid
- colour: Adrenaline blue; Noradrenaline yellow
- odour: odourless
- pH-value:
- decomposition temperature: undetermined
- flashpoint: not applicable
- autoignition temperature: product is not selfigniting
- explosion properties: not applicable
- vapour pressure: undetermined
- vapour density: undetermined
- density: undetermined
- solubility: water: 100%

10. Stability and reactivity

Conditions to avoid: No decomposition if used according to specifications

Materials to avoid: No dangerous reactions known

Hazardous decomposition products: No dangerous decomposition products known

11. Toxicological information

After inhalation of aerosols:

After skin contact:

After eye contact:

After swallowing:

Antiserum

2-Cat RIA

12. Ecological information

General notes: Generally not hazardous for water
Mobility:
Persistence/ degradability:
Bioaccumulation: no bioaccumulation known
Ecotoxicity: no ecotoxicity known

13. Disposal considerations

Waste from residues: Disposal must be made according to official regulations
Contaminated packaging: Disposal must be made according to official regulations
Under www.retrologistik.de you find references and partners.

14. Transport information

international regulations:
- land (RID/ ADR/ DoT49 CFR):
- inland waterways (ADNR):
- sea (IMDG):
- air (ICAO-TI, IATA-DGR):
- UN classification number:
- Additional regulations:

Apply the international and national transportation regulations.

15. Regulatory information

Regulations to the chemical product:

Labelling: Observe the general safety regulations when handling chemicals. The Product is not subject to identification regulations under EU directives and the ordinance on hazardous materials (German GefStoffV).

Safety phrases: This material and its container must be disposed of as hazardous waste.

Water hazard class: Generally not hazardous for water.

16. Other information

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Material Safety Data Sheet

According to 91/ 155 EC

Revision nr : 031106

Precipitating Reagent

2-Cat RIA

1. Identification of substance

Product details:

Trade name: 2-Cat RIA

Precipitating Reagent

Manufacturer/ Supplier: **DIAsource ImmunoAssays S.A.**

Rue de l'Industrie, 8
1400 Nivelles, Belgique
Tél. +32 67 88 99 99
Fax. +32 67 88 99 90

2. Composition/ Information on ingredients

Chemical characterization: Preparation.

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components: CAS-No. R-phrases S-phrases
Natriumacid (0,09%)

3. Hazard identification

Most important hazards:

Specific hazards:

Main symptoms:

Classification:

4. First aid measures

General information: No special measures required

After inhalation: Supply fresh air; consult doctor in case of complaints

After skin contact: Immediately wash with water and soap and rinse thoroughly

After eye contact: Rinse opened eye for several minutes under running water and consult doctor

After swallowing: Drink plenty of water. Call for a doctor

5. Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/ collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Precipitating Reagent

2-Cat RIA

7. Handling and storage**Handling**

Information for safe handling: No special measures required.

Information about fire and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed

Class according to regulation on flammable liquids: Void

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

- form: liquid
- colour: colourless
- odour: odourless
- pH-value:
- decomposition temperature: undetermined
- flashpoint: not applicable
- autoignition temperature: product is not selfigniting
- explosion properties: not applicable
- vapour pressure: undetermined
- vapour density: undetermined
- density: undetermined
- solubility: water: 100%

10. Stability and reactivity

Conditions to avoid: No decomposition if used according to specifications

Materials to avoid: No dangerous reactions known

Hazardous decomposition products: No dangerous decomposition products known

11. Toxicological information

After inhalation of aerosols:

After skin contact:

After eye contact:

After swallowing:

Precipitating Reagent

2-Cat RIA

12. Ecological information

General notes: Generally not hazardous for water
Mobility:
Persistence/ degradability:
Bioaccumulation: no bioaccumulation known
Ecotoxicity: no ecotoxicity known

13. Disposal considerations

Waste from residues: Disposal must be made according to official regulations
Contaminated packaging: Disposal must be made according to official regulations
Under www.retrologistik.de you find references and partners.

14. Transport information

international regulations:
- land (RID/ ADR/ DoT49 CFR):
- inland waterways (ADNR):
- sea (IMDG):
- air (ICAO-TI, IATA-DGR):
- UN classification number:
- Additional regulations:

Apply the international and national transportation regulations.

15. Regulatory information

Regulations to the chemical product:

Labelling: Observe the general safety regulations when handling chemicals. The Product is not subject to identification regulations under EU directives and the ordinance on hazardous materials (German GefStoffV).

Safety phrases: This material and its container must be disposed of as hazardous waste.

Water hazard class: Generally not hazardous for water.

16. Other information

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Material Safety Data Sheet

According to 91/ 155 EC

Revision nr : 031106

¹²⁵I-Adrenaline, ¹²⁵I-Noradrenaline
2-Cat RIA

1. Identification of substance

Product details:

Trade name: 2-Cat RIA

¹²⁵I-Adrenaline, ¹²⁵I-Noradrenaline

Manufacturer/ Supplier: **DIAsource ImmunoAssays S.A.**

Rue de l'Industrie, 8
1400 Nivelles, Belgique
Tél. +32 67 88 99 99
Fax. +32 67 88 99 90

2. Composition/ Information on ingredients

Iodine-125: Radioactive Tracer Element, less than 2,7 µCi/vial, half life 60 days, emits gamma rays
Radioisotope <100 kBq (<2,7 µCi)

Dangerous components: CAS-No. R-phrases S-phrases

3. Hazard identification

Information concerning to particular hazards to man and environment
radioactive material

4. First aid measures

Eyes: Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of ¹²⁵I – Tracer remains (at least 15 –20 minutes). Continue irrigating with normal saline until the pH has returned to normal (30-50 minutes). Cover with sterile bandages. Get medical attention immediately.

Ingestion: If patient is asymptomatic administer Syrup of Ipecac and/or perform gastric lavage using tap water, diluted sodium bicarbonate solution or preferably, if available, diluted potassium permanganate solution (1: 5000, e.g. 200 mg in 1 liter of water). Activated charcoal is ineffective. If breathing has stopped, give artificial respiration. Maintain airway. (Gosselin, Clinical Toxicology of Commercial Products, 5th ED.)

Skin: Remove contaminated clothing and shoes and wash affected areas with soap or mild detergent and large amounts of water. Take care not to contact contaminated areas. Get medical attention immediately. (Cain, Emergency Treatment and Management, 7th ED.)

5. Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/ collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. Handling and storage**Handling**

Information for safe handling: No special measures required.

Information about fire and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed

Class according to regulation on flammable liquids: Void

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Protective measures and equipment

Adherence to the basic rules of radiation safety should provide adequate protection:

Do not eat, smoke or apply cosmetics where radioactive materials are used.

Do not pipette radioactive solutions by mouth.

Avoid direct contact with all radioactive materials by using protective articles such as lab coats and disposable gloves.

All radiological work should be done in a designated and separated area.

Radioactive materials should be stored in their original containers in a designated area.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

- form:	liquid
- colour:	red
- odour:	odourless
- pH-value:	
- decomposition temperature:	undetermined
- flashpoint:	not applicable
- autoignition temperature:	product is not selfigniting
- explosion properties:	not applicable
- vapour pressure:	undetermined
- vapour density:	undetermined
- density:	undetermined
- solubility:	water: 100%

10. Stability and reactivity

Conditions to avoid: No decomposition if used according to specifications

Materials to avoid: No dangerous reactions known

Hazardous decomposition products: No dangerous decomposition products known

12. Ecological information

General notes: Do not allow product to reach ground water, water course or sewage system

13. Disposal considerations**Spill and disposal procedures**

Any radioactive spills should be taken care of immediately in accordance with an established procedure.

All radioactive materials must be disposed of in accordance with the prevailing regulations and guidelines of the agencies holding jurisdiction over the laboratory. Uncontaminated containers may be discarded into non radioactive waste providing that radioactive labels and labeling are defaced.

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

14. Transport information

international regulations:

land (RID/ ADR/ DoT49 CFR): 7 7.1 Radioactive material

inland waterways (ADNR):

sea (IMDG):

air (ICAO-TI, IATA-DGR):

UN classification number: 2910 radioactive material, excepted package

Additional regulations:

Apply the international and national transportation regulations.

15. Regulatory information

Regulations to the chemical product:

Labelling: Observe the general safety regulations when handling chemicals. The Product is not subject to identification regulations under EU directives and the ordinance on hazardous materials (German GefStoffV).

Safety phrases: This material and its container must be disposed of as radioactive waste.

Water hazard class: Generally not hazardous for water.

Radioactive labelling:

**16. Other information**

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