

SAFETY DATA SHEET

Cat# BN00739 Transglutaminase Inhibitor Screening Assay Kit

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Transglutaminase Inhibitor Screening Assay Kit

PRODUCT CODES: Cat. # BN00739

MANUFACTURER: Assay Genie (brand of Reagent Genie Ltd.)

ADDRESS: G1 The Steelworks, Foley Street, Dublin 1

EMERGENCY PHONE: +353 1 8879802

SECTION 2: HAZARDS IDENTIFICATION

Component	Description	Volume	Safety Information
TG Assay Buffer	Proprietary Buffer(contains MES)	15 ml	See below
1 M DTT	contains DTT	110 µl	See below
Donor Substrate (lyophilized)	--	1 bottle	No hazards
Acceptor Substrate (lyophilized)	contains hydroxylamine	1 vial	See below
Stop Solution	Liquid (contains Trichloroacetic acid, ferric chloride)	8 ml	See below
Transglutaminase-2 Enzyme (lyophilized)	--	1 vial	No hazards
Inhibitor Cystamine (lyophilized)	--	1 vial	No hazards

MES:

Emergency Overview

OSHA Hazards: Irritant

Target Organs: skin, eyes

GHS Classification: Skin irritation (Category 2)
Eye irritation (Category 2A)

GHS Label elements, including precautionary statements



Pictogram:

Signal word: Warning

Hazard statement(s): H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

Precautionary statement(s): P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard: 2

Chronic Health Hazard: *

Flammability: 0

Physical hazards: 0

NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: Causes skin irritation.

Eyes: Causes eye irritation.

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Hydroxylamine:

Emergency Overview: Corrosive to metals (Category 1), H290
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Dermal (Category 4), H312
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure (Category 2), H373
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

OSHA Hazards: Target organ effect, Harmful by ingestion, Irritant

Target Organs: skin, eyes, lungs

GHS Classification: Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2A)

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Warning

Hazard statement(s): H290 May be corrosive to metals.
H302 + H312 Harmful if swallowed or in contact with skin
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s): P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P234 Keep only in original container.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves/ protective clothing.
P281 Use personal protective equipment as required.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P390 Absorb spillage to prevent material damage.
P391 Collect spillage.
P405 Store locked up.
P406 Store in corrosive resistant stainless steel container with a resistant inner liner.
P501 Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification

Health hazard: 3

Chronic Health Hazard: *

Flammability: 0

Physical hazards: 1

NFPA Rating

Health hazard: 3

Fire: 0

Reactivity Hazard: 1

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

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Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Harmful if swallowed.

DTT:

Emergency Overview

OSHA Hazards: Target organ effect, Harmful by ingestion, Irritant

Target Organs: Central nervous system

GHS Classification: Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2A)

GHS Label elements, including precautionary statements



Pictogram:

Signal word: Warning

Hazard statement(s): H302: Harmful if swallowed
H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

Precautionary statement(s): P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard: 2

Chronic Health Hazard: *

Flammability: 0

Physical hazards: 0

NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Harmful if swallowed.

Trichloroacetic acid:

Emergency Overview

OSHA Hazards: Target organ effect, Corrosive, Carcinogen

Target Organs: Central nervous system

Other hazards which do not result in classification: Vesicant

GHS Classification: Acute toxicity, Oral (Category 5)
Skin corrosion (Category 1A)
Serious eye damage (Category 1)
Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)

GHS Label elements, including precautionary statements



Pictogram:

Signal word: Danger

Hazard statement(s): H303 May be harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s): P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

HMIS Classification

Health hazard: 3

Chronic health hazard: *

Flammability: 1

Physical hazards: 0

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NFPA Rating

Health Hazard: 3

Fire: 1

Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns. Causes severe eye burns.

Ingestion: May be harmful if swallowed.

Ferric Chloride:

Emergency Overview

OSHA Hazards: Target organ effect, Corrosive

Target Organs: Eyes, skin

Other hazards which do not result in classification:

GHS Classification: Acute toxicity, Oral (Category 4)
Skin corrosion (Category 2)
Serious eye damage (Category 1)
Acute aquatic toxicity (Category 2)
Chronic aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazard statement(s): H290: May be corrosive to metals
H303 May be harmful if swallowed.
H315 Causes skin irritation
H318 Causes serious eye damage
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s): P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

HMIS Classification

Health hazard: 3

Chronic health hazard: *

Flammability: 0

Physical hazards: 0

NFPA Rating

Health Hazard: 3

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns. Causes severe eye burns.

Ingestion: May be harmful if swallowed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	EC-No.	Molecular Weight	Chemical Formula
MES	145224-94-8	224-632-3	213.25	C ₆ H ₁₃ NO ₄ S
DTT	3483-12-3	222-468-7	154.25	C ₄ H ₁₀ O ₂ S ₂
Hydroxylamine HCl	5470-11-1	226-798-2	69.49	H ₃ NO·HCl
Trichloroacetic acid	76-03-9	200-927-2	163.39	C ₂ HCl ₃ O ₂
Ferric Chloride	7705-08-0	231-729-4	162.20	Cl ₃ Fe

SECTION 4: FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

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In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products: Hazardous decomposition products formed under fire conditions –see section 10.

Further information: Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Flash back possible over considerable distance. Container explosion may occur under fire conditions. Use explosion-proof equipment. Keep away from sources of ignition – no smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Trichloroacetic acid

Components	CAS-No.	Value	Control parameters	Basis
Trichloroacetic acid	76-03-9	TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks:	Eye & upper respiratory tract irritation. Confirmed animal carcinogen with unknown relevance to humans.			
		TWA	1 ppm 7 mg/m ³	USA. OSHA – Table Z-1 Limits for Air Contaminants – 1910.1000
		TWA	1 ppm 7 mg/m ³	USA. NIOSH recommended exposure limits

Ferric Chloride

Components	CAS-No.	Value	Control parameters	Basis
Iron trichloride	7705-08-0	TWA	1 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
Remarks:	Upper respiratory tract irritation; SKin irritation varies			
		TWA	1mg/m ³	USA. NIOSH recommended exposure limits

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

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Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	MES	DTT
Appearance:	White powder	White powder
pH:	2.5-4 at 97.6 g/l	4-6 at 15.4 g/l
Water Solubility:	97.6g/L	15.4 g/l
Other Solubility:	No data available	No data available
Boiling Point (°C):	No data available	No data available
Melting Point (°C):	300 °C (572 °F)	41-44 °C (106-111 °F)
Flash Point (°C):	No data available	113 °C (235 °F)
Ignition Temperature (°C):	No data available	No data available
Density:	No data available	No data available

Property	Hydroxylamine	Trichloroacetic acid	FeCl3
Appearance:	white powder	liquid	liquid
pH:	2.5-3.5 at 50 g/L	1 at 81.7 g/l at 25 °C (77 °F)	No data available
Water Solubility:	No data available	Completely soluble	No data available
Other Solubility:	No data available	No data available	No data available
Boiling Point (°C):	No data available	No data available	No data available
Melting Point (°C):	155-157 °C (311-315 °F)	No data available	No data available
Flash Point (°C):	No data available	No data available	No data available
Ignition Temperature (°C):	No data available	No data available	No data available
Density:	1.67 g/ml	No data available	No data available

SECTION 10: STABILITY AND REACTIVITY

Property	MES	DTT	Hydroxylamine
Chemical stability:	Stable under recommended storage conditions		
Conditions to avoid:	No data available	No data available	No data available
Materials to avoid:	Strong oxidizing agents	Bases, oxidizing agents, reducing agents, alkali metals	Strong oxidizing agents, phosphorous pentachloride, Calcium, Anhydrous copper(II) sulfate
Hazardous decomposition products:	No data available	Carbon oxides, sulfur oxides, hydrogen sulfide gas	No data available

Property	Trichloroacetic acid	FeCl3
Chemical stability:	Stable under recommended storage conditions	
Conditions to avoid:	exposure to moisture	No data available
Materials to avoid:	Strong oxidizing agents, strong bases, amines	Bases, Alkali metals, Strong oxidizing agents, Potassium, Exothermic in contact with water, Forms shock-sensitive mixtures with certain other materials
Hazardous decomposition products:	Carbon oxides, hydrogen chloride gas	Carbon oxides, sulfur oxides, hydrogen sulfide gas

SECTION 11: TOXICOLOGICAL INFORMATION

MES, FeCl3:

Acute toxicity: no data available
Skin corrosion/irritation: no data available
Serious eye damage/eye irritation: no data available
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: no data available
Carcinogenicity:

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IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): Inhalation – may cause respiratory irritation.

Specific target organ toxicity – repeated exposure (GHS): no data available

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.

DTT:

Acute toxicity: LD50 Oral – rat – 400 mg/kg

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): Inhalation – may cause respiratory irritation.

Specific target organ toxicity – repeated exposure (GHS): no data available

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Harmful if swallowed.

Signs and Symptoms of Exposure: Exposure may cause central nervous system depression. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional information: RTECS: not available

Hydroxylamine:

Acute toxicity: LD50 Oral - rat - 600 mg/kg

LC50 Inhalation - rat no data available

LD50 Dermal - rabbit no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory/skin sensitization: no data available

Germ cell mutagenicity: Genotoxicity rat -embryo-morphological transformation
Genotoxicity in vivo - hamster – lungs -- sister chromatid exchange

Carcinogenicity: Suspected human carcinogen

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Reproductive toxicity – no data available.

Teratogenicity: NO data available

Aspiration hazard: No data available

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Additional Information: RTECS: NC3675000

Trichloroacetic acid:

Acute toxicity: LD50 Oral – rat – 3,320 mg/kg

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: Eyes – rabbit – severe eye irritation – 5 s

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Trichloroacetic acid)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): no data available

Specific target organ toxicity – repeated exposure (GHS): no data available

Potential Health Effects

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns. Causes severe eye burns.

Ingestion: May be harmful if swallowed.

Signs and Symptoms of Exposure: Exposure may cause burning sensation, cough, wheezing, laryngitis, shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Additional information: RTECS: AJ7875000

SECTION 12: ECOLOGICAL INFORMATION

DTT:

Persistence and degradability: no data available

Toxicity: Toxicity to daphnia and other aquatic invertebrates: LC50 – Daphnia magna (Water flea) – 27 mg/l – 48 h

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Hydroxylamine:

Persistence and degradability: no data available

Toxicity: Toxicity to fish: LC50 --Leuciscus idus (Golden orfe) - 1 - 10 mg/L - 48.0 h

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: Very toxic to aquatic life with long lasting effects

Trichloroacetic acid:

Persistence and degradability: Biodegradability (Zahn-Wellens Test) ☐ Result: 5% - not readily biodegradable

Toxicity: Toxicity to fish ☐ LC50 – Pimephales promelas (fathead minnow) – 2,000 mg/l – 96 h

Toxicity to daphnia and other aquatic invertebrates ☐ EC50 – Daphnia magna (Water flea) – 1,460-2,000 mg/l – 48 h

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

Product: Observe all federal, state, and local environmental regulations.

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DTT:

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DOT (US): Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

Hydroxylamine:

DOT (US): UN-Number: 2923, Class: 8 (6.1), Packing group: III;

Proper shipping name: Corrosive solids, toxic, n.o.s. (Hydroxylamine hydrochloride)

Reportable quantity (RQ):

Poison Inhalation Hazard: No

IMDG: UN number: 2923 Class: 8 (6.1) Packing group: III EMS-No: F-A, S-B

Proper shipping name: CORROSIVE SOLID, TOXIC, N.O.S. (Hydroxylamine hydrochloride)

Marine pollutant: yes

IATA: UN number: 2923 Class: 8 (6.1) Packing group: III

Proper shipping name: Corrosive solid, toxic, n.o.s. (Hydroxylamine hydrochloride)

Trichloroacetic acid:

DOT (US): UN-number: 1839, Class: 8, Packing group: II

Proper shipping name: Trichloroacetic acid

Marine pollutant: No; Poison inhalation hazard: No

IMDG: UN-number: 1839, Class: 8, Packing group: II; EMS-No: F-A, S-B

Proper shipping name: TRICHLOROACETIC ACID

Marine pollutant: No

IATA: UN-number: 1839, Class: 8, Packing group: II

Proper shipping name: Trichloroacetic acid

Ferric Chloride:

DOT (US): UN number: 2582 Class: 8 Packing group: III

Proper shipping name: Ferric chloride, solution

Reportable Quantity (RQ): 2000 lbs

Poison Inhalation Hazard: No

IMDG: UN number: 2582 Class: 8 Packing group: III EMS-No: F-A, S-B

Proper shipping name: FERRIC CHLORIDE SOLUTION

Marine pollutant: yes

IATA: UN number: 2582 Class: 8 Packing group: III

Proper shipping name: Ferric chloride solution

SECTION 15: REGULATORY INFORMATION

OSHA Hazards: DTT: Target organ effect, Harmful by ingestion, Irritant

hydroxylamine: Corrosive to metals, Target organ effect, harmful by ingestion, irritant

Trichloroacetic acid: Target organ effect, Corrosive, Carcinogen

SARA 302 Components: SARA 302: No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title II, Section 313.

SARA 311/312 Hazards: DTT, hydroxylamine, Trichloroacetic acid: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components: Trichloroacetic acid: CAS-No. 76-03-9; Revision Date: 2007-03-1

Iron trichloride: CAS-No. 7705-08-0 Revision Date 1993-04-24

Pennsylvania Right To Know Components: DTT, CAS-No. 3483-12-3

hydroxylamine hydrochloride CAS-No. 5470-11-1

Trichloroacetic acid: CAS-No. 76-03-9; Revision Date: 2007-03-1

Iron trichloride: CAS-No. 7705-08-0 Revision Date 1993-04-24

New Jersey Right To Know Components: DTT, CAS-No. 3483-12-3

hydroxylamine hydrochloride CAS-No. 5470-11-1

Trichloroacetic acid: CAS-No. 76-03-9; Revision Date: 2007-03-1

Iron trichloride: CAS-No. 7705-08-0 Revision Date 1993-04-24

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

EU regulations

Component	Risk Phrases	Safety Phrases
DTT	R22, R36/37/38	S26, S36
Hydroxylamine	R22;R36/38;R43;R48/22;R50;	S22;S24;S37;S61
Trichloroacetic acid	R35, R50/53	S26, S36/37/39, S45, S60, S61
Ferric Chloride	R22, R38, R41	S26, S39

SECTION 16: OTHER INFORMATION

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DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Assay Genie shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.