1. Product and Company Identification

Material name Aspartate Amino transferase (AST) Diluent R1 Reagent

Version #

Issue date 2012-06-01 **Revision date** 2023-08-18 CAS# Mixture

Kit number C154 series, V154 series

Product use For the IN VITRO quantitative measurement of aspartate amino transferase in serum and

plasma.

Product restrictions None known **Supplier** Catachem, Inc.

353 Christian Street Oxford, CT 06478

www.catacheminc.com Phone: +1203-262-0330

Emergency Telephone

Numbers +1203-232-1979

2. Hazards Identification

Physical state Liquid. Clear liquid **Appearance Emergency overview** CAUTION

May cause eye, skin, and respiratory tract irritation.

OSHA regulatory status This product is not hazardous according to OSHA 29CFR 1910.1200.

Potential health effects

Routes of exposure Skin contact. Eye contact. **Eyes** May cause eye irritation. Skin May cause skin irritation.

In high concentrations, vapors may be irritating to the respiratory system. Inhalation

Ingestion May cause discomfort if swallowed.

Target organs Eyes.

Chronic effects No data available.

Signs and symptoms Direct contact with skin and eyes may cause irritation.

Potential environmental effects The product components are not classified as environmentally hazardous. However, this

does not exclude the possibility that large or frequent spills can have a harmful or

damaging effect on the environment.

3. Composition / Information on Ingredients

Component	Common Name	CAS#	Percent by Weight	
B-Nicotinamide Adenine Dinucleotide Hydride	NADH	606-68-8	<0.9%	
NaN3	Hydrazoic Acid Sodium Salt	26628-22-8	<0.02%	

4. First Aid Measures

First aid procedures

Eye contact In case of contact, immediately flush eyes with fresh water for at least 15 minutes while

holding the eyelids open. Remove contact lenses if worn. Get medical attention if irritation

persists.

Skin contact In case of contact, contact flush with large amounts of water while removing contaminated

clothing. Obtain medical attention if irritation develops and persists.

Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Ingestion If material is ingested, immediately contact a poison control center.

Notes to physician Provide general supportive measures and treat symptomatically.

General advice If you feel unwell, seek medical advice.

5. Fire Fighting Measures

Flammable properties This product is not flammable.

Extinguishing media

Suitable extinguishing

media Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the

surrounding fire.

Unsuitable extinguishing

media None known.

Protection of firefighters

Specific hazards arising

from the chemical None known.

Protective equipment and

precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions Use standard firefighting procedures and consider the hazards of other involved

materials.

Hazardous combustion

Products None known.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Wear appropriate personal protective equipment and

clothing during clean-up. Do not touch damaged containers or spilled material unless

wearing appropriate protective clothing.

Environmental precautions Do not allow to enter drains, sewers or watercourses. **Methods for containment** Absorb spillage with non-combustible, absorbent material.

Methods for cleaning up

Absorb spill with vermiculite or other inert material. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Avoid contact with skin and eyes. Wash thoroughly after handling. In case of insufficient

ventilation, wear suitable respiratory equipment. Handle and open container with care.

Storage Store at 2-8°C (35-46°F). Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Exposure guidelines Follow standard monitoring procedures.

Engineering controls Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk

of inhalation of vapors. Provide easy access to water supply and eye wash facilities.

Personal protective equipment

Eye / face protection Wear approved safety glasses or goggles.

Skin protection Wear lab coat, gloves, or other protective garments. Remove contaminated clothing

promptly.

Respiratory protection Under no

General hygiene

Under normal conditions, respirator is not normally required.

considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

AppearanceColorlessPhysical stateLiquid.FormLiquid.ColorColorlessOdorOdorless

Odor threshold Not available.

pH Approx. 7.0 @ (25°C)

Vapor pressure Not available. Vapor density Not available. **Boiling point** Not available. Relative density Not available. Melting point/Freezing point Not applicable. **Viscosity** Not available. Solubility (water) Soluble. Specific gravity 1-1.1

Flash point Not available.

Flammability limits in air,

upper, % by volume Not available.

Flammability limits in air,

lower, % by volumeNot available.Auto-ignition temperatureNot available.Evaporation rateNot available.

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid No data available.

Incompatible materials No data available.

Hazardous decomposition

Products None known.

Possibility of hazardous

Reactions Hazardous polymerization does not occur.

11. Toxicological Information

Sensitization Not classified.

Acute effects May cause discomfort or harm if swallowed.

Local effects Ingestion may cause irritation and/or nausea.

Chronic effects:

Short termNo data available.Long termNo data available.

Carcinogenicity Not classifiable as a carcinogen to humans.

Epidemiology No epidemiological data is available for this product.

MutagenicityNot classified.Reproductive effectsNot classified.

Symptoms and target organs Direct contact with skin and eyes may cause irritation.

Further information No other specific acute or chronic health impact noted.

12. Ecological Information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude

the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulation /

Accumulation

Not available.

Mobility in environmental

media The product is completely soluble in water.

13. Disposal Considerations

Disposal instructionsContaminated instruments and surfaces should be disinfected in accordance with

your employer's chemical-specific and universal/standard precautions.

Waste from residues / unused

products Dispose in accordance with all applicable regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport Information

DOT Not regulated as a hazardous material by DOT.

IATA Not regulated as dangerous goods. **IMDG** Not regulated as dangerous goods. **TDG** Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity (lb.) (40 CFR 302.4)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely No hazardous substance (40 CFR 355, Appendix A) Section 311/312

(40 CFR370) No

Drug Enforcement

Administration (DEA) (21 CFR

1308.11-15) Not controlled

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the

MSDS contains all the information required by the CPR.

WHMIS status Non-controlled

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

Australia Australian Inventory of Chemical Substances (AICS) Yes Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No China Inventory of Existing Chemical Substances in China (IECSC) Yes Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Yes

353 Christian Street, Suite 2 ● Oxford, Connecticut ● USA 06478 ●Phone: (203) 262-0330 ●Fax: (203) 262-9836 ●catachem@catacheminc.com

Revision Number Change Date Operator 2023.08.18 ΕB

4.0

Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS)

United States

& Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

State regulations This product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

Mexico regulations This safety data sheet was prepared in accordance with the Official Mexican Standard

(NOM-018-STPS-2000).

16. Other Information

Recommended restrictions Use in accordance with supplier's recommendations.

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 0

> Flammability: 0 Physical hazard: 0

NFPA ratings Health: 0

> Flammability: 0 Instability: 0

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

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

1. Product and Company Identification

Material name Aspartate amino transferase (AST) R2 Reagent component

Version # 4

 Issue date
 2012-06-01

 Revision date
 2023-08-18

 CAS #
 Mixture

Kit number C154 series. V154 series

Product use For the IN VITRO quantitative measurement of Aspartate amino transferase (AST) in

serum and plasma.

Product restrictions None known

Supplier Catachem, Inc.

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2. Hazards Identification

Physical state Liquid

Appearance Clear liquid

Emergency overview CAUTION

May cause eye, skin, and respiratory tract irritation.

OSHA regulatory status

This product is considered hazardous according to OSHA 29CFR 1910.1200.

Potential health effects

Routes of exposureSkin contact. Eye contact.EyesMay cause eye irritation.SkinMay cause skin irritation.

InhalationMay be irritating to the respiratory system.IngestionMay cause discomfort if swallowed.

Target organs Eyes.

Chronic effects No data available.

Signs and symptoms Direct contact with skin and eyes may cause irritation.

Potential environmental effects The product components are not classified as environmentally hazardous. However, this

does not exclude the possibility that large or frequent spills can have a harmful or

ΕB

damaging effect on the environment.

3. Composition / Information on Ingredients

Component	Common Name	CAS#	Percent by Weight
B-Nicotinamide Adenine Dinucleotide Hydride	NADH	606-68-8	<0.9%
NaN ₃	Hydrazoic Acid Sodium Salt	26628-22-8	<2.0%

4. First Aid Measures

First aid procedures

Eye contact In case of contact, immediately flush eyes with fresh water for at least 15 minutes while

holding the eyelids open. Remove contact lenses if worn. Obtaint medical attention if

irritation persists.

Skin contact In case of contact, flush with large amounts of water while removing contaminated clothing.

Obtain medical attention if irritation develops and persists.

Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Ingestion If material is ingested, immediately contact a poison control center.

Notes to physician Provide general supportive measures and treat symptomatically.

General advice If you feel unwell, seek medical advice.

5. Fire Fighting Measures

Flammable properties This product may be flammable at temperatures in excess of 100 C..

Extinguishing media

Suitable extinguishing

media Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the

surrounding fire.

Unsuitable extinguishing

media None known.

Protection of firefighters

Specific hazards arising

from the chemical None known.

Protective equipment and

precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions Use standard firefighting procedures and consider the hazards of other involved

materials.

Hazardous combustion

Products None known.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Wear appropriate personal protective equipment and

clothing during clean-up. Do not touch damaged containers or spilled material unless

wearing appropriate protective clothing.

Environmental precautions

Do not allow to enter drains, sewers or watercourses.

Methods for containment

Dilute with water.

Methods for cleaning up

After dilution with water, absorb spill with vermiculite or other inert material. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental

regulations, per Section 13.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Avoid contact with skin and eyes. Wash thoroughly after handling. In case of insufficient

ventilation, wear suitable respiratory equipment. Handle and open container with care.

Store at 2-8°C (35-46°F). Store in a closed container away from incompatible materials. **Storage**

8. Exposure Controls / Personal Protection

Occupational exposure limits No exposure limits noted for ingredient(s). **Exposure guidelines** Follow standard monitoring procedures.

Engineering controls Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk

of inhalation of vapors. Provide easy access to water supply and eye wash facilities.

Personal protective equipment

Eye / face protection Wear approved safety glasses or goggles.

Skin protection Wear lab coat, gloves. or other protective garments. Remove contaminated clothing

promptly.

Respiratory protection

Under normal conditions, respirator is not normally required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Clear liquid. Physical state Clear liquid. Liquid. **Form** Color Clear

Odorless to faint amino odor. Odor

Odor threshold Not available.

Hq 7.0 approx. @ (25°C)

Vapor pressure Not available. Vapor density Not available. **Boiling point** Not available. Relative density Not available. Melting point/Freezing point Not applicable.

Solubility (water) Soluble. Specific gravity N/A

Flash point Not available. Not available. **Viscosity**

Flammability limits in air,

upper, % by volume Not available.

Flammability limits in air,

lower, % by volume Not available. **Auto-ignition temperature** Not available. **Evaporation rate** Not available.

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid No data available.

Incompatible materials No data available.

Hazardous decomposition

Products None known.

Possibility of hazardous

Reactions Hazardous polymerization does not occur.

11. Toxicological Information

Sensitization Not classified.

Acute effects May cause discomfort if swallowed.

Local effects Ingestion may cause irritation and nausea.

Chronic effects:

Long termNo data available.Short termNo data available.

Carcinogenicity Not classifiable as a carcinogen to humans.

Epidemiology No epidemiological data is available for this product.

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Symptoms and target organsDirect contact with skin and eyes may cause irritation. **Further information**No other specific acute or chronic health impact noted.

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Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely No hazardous substance (40 CFR 355, Appendix A) Section 311/312

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Drug Enforcement

Administration (DEA) (21 CFR

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Canada Non-Domestic Substances List (NDSL)

China Inventory of Existing Chemical Substances in China (IECSC)

Europe European Inventory of Existing Commercial Chemical Substances (EINECS)

Yes

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Revision Number Change Date Operator
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HMIS® ratings Health: 0

> Flammability: 0 Physical hazard: 0

NFPA ratings Health: 0

> Flammability: 0 Instability: 0

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