

1. Product and Company Identification

Material name UIBC-SL Color Reagent (R2)
Version # 01
Issue date 02-19-2013
Revision date -
Supersedes date -
CAS # Mixture
Part No. 153-10-91R2; 153-10; 153-90; 153-50
Product use For the IN VITRO quantitative determination of UIBC in serum.
Manufacturer information
Corporate Headquarters Sekisui Diagnostics, LLC
 4 Hartwell Place, Lexington, MA 02421, USA
 www.sekisuidiagnostics.com
 Phone: 800-332-1042
Emergency Telephone Numbers Americas 1-760-476-3962
 Europe, Middle East & Africa +1-760-476-3961
 Asia Pacific +1-760-476-3960
 Access code 333512

2. Hazards Identification

Physical state Liquid.
Appearance Yellow liquid.
Emergency overview WARNING
 May be harmful if swallowed. May cause skin and eye irritation. The chemical, physical and toxicological properties of this preparation have not been thoroughly characterized.
OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.
Potential health effects
Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.
Eyes May cause eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.
Skin Contact may cause skin irritation.
Inhalation Vapors and mist may irritate throat and respiratory system and cause coughing.
Ingestion May be harmful if swallowed.
Target organs Eye Skin Respiratory system.
Chronic effects Suspect cancer hazard. May cause toxic effects on the blood system including bone marrow toxicity and reduction in red blood cells, white blood cells, and platelets. Enlargement of the thyroid and spleen has also been reported.
Signs and symptoms Ingestion may cause irritation and malaise.
Potential environmental effects 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.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Thiourea	62-56-6	1 - < 3

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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	For skin contact flush with large amounts of water while removing contaminated clothing. Get 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.

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 Fire will generate toxic and irritating gases.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Wear appropriate 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 Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal protective equipment

Eye / face protection	Wear approved safety glasses or goggles.
Skin protection	Wear lab coat 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 Yellow liquid.

Physical state	Liquid.
Form	Liquid.
Color	Clear yellow.
Odor	Odorless.
Odor threshold	Not available.
pH	2.8
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Soluble.
Specific gravity	1.014
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Protect against direct sunlight.
Incompatible materials	No data available.
Hazardous decomposition products	None.
Possibility of hazardous reactions	No data available.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Thiourea (CAS 62-56-6)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2800 mg/kg
	Rat	> 6810 mg/kg
Sensitization	Not classified.	
Acute effects	May be harmful if swallowed.	
Local effects	Ingestion may cause irritation and malaise.	
Chronic effects	No data available.	
Carcinogenicity	Suspected of causing cancer.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Thiourea (CAS 62-56-6)	3 Not classifiable as to carcinogenicity to humans.	
US NTP Report on Carcinogens: Anticipated carcinogen		
Thiourea (CAS 62-56-6)	Reasonably Anticipated to be a Human Carcinogen.	
Epidemiology	No epidemiological data is available for this product.	
Mutagenicity	Not classified.	
Reproductive effects	Not classified.	
Symptoms and target organs	Ingestion may cause irritation and malaise.	
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.
Aquatic toxicity	Not classified.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulation / Accumulation	Not available.
Partition coefficient	
Thiourea (CAS 62-56-6)	-1.08
Mobility in environmental media	The product is soluble in water.

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of waste and residues in accordance with local authority requirements.
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 hazardous according to OSHA 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. This mixture is a component of an in vitro diagnostic device regulated by the U.S. Food and Drug Administration.
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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Thiourea (CAS 62-56-6) 0.1 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Thiourea (CAS 62-56-6) Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Thiourea: 10

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance (40 CFR 355, Appendix A)	No
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Section 311/312 (40 CFR 370)	Yes
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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

Controlled

WHMIS classification

D1A - Immediate/Serious-VERY TOXIC

WHMIS labeling



Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

State regulations

US - California Hazardous Substances (Director's): Listed substance

Thiourea (CAS 62-56-6) Listed.

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

Thiourea (CAS 62-56-6) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Thiourea (CAS 62-56-6) Listed: January 1, 1988 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

Thiourea (CAS 62-56-6) Listed.

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Thiourea (CAS 62-56-6) Special hazard.

US. Massachusetts RTK - Substance List

Thiourea (CAS 62-56-6) Listed.

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

Thiourea (CAS 62-56-6) 500 lbs

US. Pennsylvania RTK - Hazardous Substances

Thiourea (CAS 62-56-6) Listed.

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: 2*
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 0
Instability: 0

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