MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Material name ACETAMINOPHEN L3K® Color Reagent (R2)

Version # 01

Issue date 02-04-2013

Revision date - Supersedes date -

CAS # Mixture

Kit number 506-10; 506-30

Product use For the quantitative measurement of acetaminophen in serum and plasma. For In Vitro Diagnostic

use only.

Manufacturer information

Corporate Headquarters Sekisui Diagnostics, LLC

31 New York Avenue, Framingham, MA 01701 USA

www.sekisuidiagnostics.com Phone: 800-332-1042 Americas 1-760-476-3962

Emergency Telephone

Numbers

Europe, Middle East & Africa +1-760-476-3961

Asia Pacific +1-760-476-3960

Access code 333512

2. Hazards Identification

Physical state Liquid.

Appearance Slight yellow liquid.

Emergency overview DANGER

Causes skin and eye burns. Prolonged exposure may cause chronic effects.

OSHA regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes This product causes eye burns.

Skin Causes skin burns.

In high concentrations, mists/vapors may irritate throat and respiratory system and cause

coughing.

Ingestion Can burn mouth, throat, and stomach.

Target organs Eyes. Respiratory system. Skin. Gastro-intestinal tract

Chronic effects Prolonged skin contact may defat the skin and produce dermatitis.

Signs and symptoms May cause burns in mucous membranes, throat, esophagus and stomach.

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
Sodium carbonate	497-19-8	1 - 2.5
Tris-(hydroxymethyl)aminomethane	77-86-1	1 - 2.5
Sodium hydroxide	1310-73-2	< 0.5

Composition comments Contains a small amount of 2,5 Dimethylphenol.

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

percent by volume.

905996 Version #: 01 Revision date: - Issue date: 02-04-2013

1/7

4. First Aid Measures

First aid procedures

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact Eye contact

lenses. Get medical attention if irritation develops and persists.

Skin contact Immediately flush thoroughly with water for at least 15 minutes. Get medical attention if irritation

develops and persists.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the

substance. Get medical attention immediately.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Notes to physician Symptoms may be delayed.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

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.

None known.

Protection of firefighters

Specific hazards arising

from the chemical

Protective equipment and

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

precautions for firefighters Fire fighting

equipment/instructions

Hazardous combustion

products

Use standard firefighting procedures and consider the hazards of other involved materials.

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.

No data available.

Environmental precautions

Methods for containment Methods for cleaning up

Do not allow to enter drains, sewers or watercourses. Absorb spillage with non-combustible, absorbent material.

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 Absorb small leaks or spills with sponge, mop up large spills with plenty of soap and water. 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

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Sodium hydroxide (CAS	Ceiling	2 mg/m3	
1310-73-2)			

CPH MSDS NA

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Sodium hydroxide (CAS	Ceiling	2 mg/m3	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
Sodium hydroxide (CAS	Ceiling	2 mg/m3	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	
Sodium hydroxide (CAS	Ceiling	2 mg/m3	
1310-73-2)			

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

Mexico. Occupational Exposure Limit Values

Components	Туре	Value	
Sodium hydroxide (CAS	Ceiling	2 mg/m3	
1310-73-2)			

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

9. Physical & Chemical Properties

Appearance Slight yellow liquid.

Physical state Liquid. **Form** Liquid. Color Slight yellow. Odor Phenolic. Not available. **Odor threshold** 11.5 @ 25 °C pН Not available. Vapor pressure Not available. Vapor density **Boiling point** Not available. Melting point/Freezing point Not available. Solubility (water) Soluble. 1.024 Specific gravity

Flash point Not available.

Flammability limits in air,

upper, % by volume

Not available.

Not available.

Flammability limits in air,

lower, % by volume

ts in air,

• · · · · · · · ·

Auto-ignition temperature Not available.

10. Chemical Stability & Reactivity Information

Chemical stability Stable under normal storage and handling conditions.

Conditions to avoid None under normal conditions.

Incompatible materialsStrong bases.Hazardous decompositionNo data available.

products

Hazardous polymerization does not occur.

reactions

11. Toxicological Information

Toxicological data

Possibility of hazardous

Toxicological data		
Components	Species	Test Results
Sodium carbonate (CAS 49	7-19-8)	
Acute		
Inhalation		
LC50	Rat	2.3 mg/l, 2 Hours
Oral		
LD50	Rat	4090 mg/kg
Tris-(hydroxymethyl)aminor	methane (CAS 77-86-1)	
Acute		
Oral		
LD50	Rat	5900 mg/kg
Sensitization	Not a skin sensitizer.	
Acute effects	Causes skin and eye burns.	
Local effects	Irritating to respiratory system	n.
Chronic effects	Prolonged skin contact may	defat the skin and produce dermatitis.
Carcinogenicity	Not classified.	
Epidemiology	Not available.	

Epidemiology Not available.

Mutagenicity No data available.

Neurological effects Not available.

Reproductive effects No data available.

Teratogenicity Not available.

Symptoms and target organs May cause burns in mucous membranes, throat, esophagus and stomach.

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

12. Ecological Information

Ecotoxicological data

Components		Species	Test Results
Sodium carbonate (CAS 49	97-19-8)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	156.6 - 298.9 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	300 mg/l, 96 hours
Sodium hydroxide (CAS 13	310-73-2)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	34.59 - 47.13 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	125 mg/l, 96 hours

905996 Version #: 01 Revision date: - Issue date: 02-04-2013

4/7

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 effectsAn 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 / Not available.

Accumulation

Partition coefficient

Tris-(hydroxymethyl)aminomethane (CAS 77-86-1) -2.31 (20°C)

Mobility in environmental The product is soluble in water.

media

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations. Contract with a licensed chemical disposal

agency

Waste from residues / unused

products

Dispose in accordance with all applicable regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

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

14. Transport Information

DOT

Basic shipping requirements:

UN number UN1824

Proper shipping name Sodium hydroxide solution

Hazard class 8
Packing group III

Environmental hazards

Marine pollutant No

Additional information:

Special provisions IB3, N34, T4, TP1

Packaging exceptions 154
Packaging non bulk 203
Packaging bulk 241

DOT BULK

Basic shipping requirements:

UN number UN1824

Proper shipping name Sodium hydroxide solution

Hazard class 8
Packing group III

Additional information:

Special provisions IB3, N34, T4, TP1

Packaging exceptions 154
Packaging non bulk 203
Packaging bulk 241

IATA

UN number UN1824

UN proper shipping name Sodium hydroxide solution

Transport hazard class(es) 8
Subsidiary class(es) Packing group III
Environmental hazards No
Labels required 8
ERG code 8L

IMDG

UN number UN1824

UN proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es) 8

Subsidiary class(es) - Packing group

Environmental hazards

Marine pollutant No
Labels required 8
EmS F-A. S-B

EmS TDG

UN number UN1824

Proper shipping name SODIUM HYDROXIDE SOLUTION

Hazard class8Packing groupIIIMarine pollutantNoLabels required8

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200. This mixture is a component of an in vitro diagnostic device

regulated by the U.S. Food and Drug Administration.

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.

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

Sodium hydroxide: 1000

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

Section 302 extremely No

hazardous substance (40 CFR 355, Appendix A)

Section 311/312 (40 CFR Yes

370)

Drug Enforcement Not controlled

Administration (DEA) (21 CFR

1308.11-15)

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 E - Corrosive

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

defects or other reproductive harm.

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

Sodium hydroxide (CAS 1310-73-2) Listed.

ACETAMINOPHEN L3K® Color Reagent (R2)
905996 Version #: 01 Revision date: - Issue date: 02-04-2013

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

Not listed.

US - New Jersey RTK - Substances: Listed substance

Sodium hydroxide (CAS 1310-73-2) Listed.

US. Massachusetts RTK - Substance List

Sodium hydroxide (CAS 1310-73-2) Listed.

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

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Sodium hydroxide (CAS 1310-73-2) 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: 3*

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 3

Flammability: 0 Instability: 0

Disclaimer The information above is provided in good faith. It is believed to be accurate and represents the

best information currently available to us. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER TYPE, EXPRESSED OR IMPLIED, WITH RESPECT TO PRODUCTS DESCRIBED OR DATA OR INFORMATION PROVIDED, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OF SUCH PRODUCTS, DATA OR INFORMATION. Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall Sekisui Diagnostics be liable for any claims, losses, or damages of any individual or for lost profits or any

special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if

Sekisui Diagnostics has been advised of the possibility of such damages.

905996 Version #: 01 Revision date: - Issue date: 02-04-2013