

Safety Data Sheet

Blueing Reagent w/ Methanol

Revision Date: 01/15/19

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier Trade name: Blueing Reagent
Product code(s): 3356-32, 3356-G

1.2 Relevant identified Uses: Laboratory Reagent

Supplier: Astral Diagnostics Inc.
800-441-0366 Technical Service
Monday-Friday: 8:00 -5:00 PM

Synonym: None.
Material uses: Laboratory Reagent.
Validation date: 12/11/2013
In case of emergency: 800-424-9300 CHEMTREC (USA)
24 Hours/Day: 7 Days/Week

2. HAZARDS IDENTIFICATION

Emergency Overview:

GHS Label Elements: Pictogram



Signal Word:

Danger!

Hazard statement(s):

H225: Highly flammable liquid vapor

H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled

H370: Causes damage to organs

Precautionary statement(s):

P210: Keep away from heat/sparks/open flames. No smoking

P233: Keep container tightly closed

P242: Use only non-spark tools

P264: Wash skin thoroughly after handling

NFPA Rating

Health hazard: 2

Fire: 3

Reactivity Hazard: 0

HMIS Classification

Health hazard: 2

Flammability: 3

Physical hazards: 0

Potential Health Effects : Inhalation – May cause respiratory tract irritation.
Skin - May cause skin irritation.
Eyes – May cause eye irritation.
Ingestion – Potentially toxic if swallowed in large quantities.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	% by volume
Methanol	67-56-1	50
Lithium Carbonate	554-13-2	<1
Sodium Bicarbonate	144-56-1	<1
Water	7732-18-5	Balance

4. FIRST AID MEASURES

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: *Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.*

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media: Do not use a heavy water stream

5.2 Special hazards arising from the substance or mixture

No additional information available

5.3 Advice for firefighters

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Gloves. Safety glasses. Combined gas/dust mask with filter type B/P3.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.

Hygiene measures: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container closed when not in use. Protect from sunlight. Store in a well-ventilated place.

Incompatible products: Strong oxidizers. Strong reducing agents. Strong bases.

Incompatible materials: Sources of ignition. Direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

Component	Source	Type	Value	Note
Methanol	ACGIH	TWA	200 ppm	
	ACGIH	STEL	250 ppm	
	NIOSH	TWA	260 mg/m ³ , 200 ppm	
	OSHA	TWA	260 mg/m ³ , 200 ppm	

Personal protective equipment: Safety glasses. Gloves. Protective clothing. High gas/vapor concentration: gas mask with filter type B.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or face shield.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask. Gas mask with filter type B.

Other information: Do not eat, drink or smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Flash Point: Closed cup: 9.7°C (49.5°F)

pH: NA

Melting/freezing point: NA

Vapor pressure: NA

Odor threshold: NA

VOC: NA

Upper/Lower flammability: Upper- 36%, Lower- 6%

Color: Clear

Odor: Pungent

Boiling/condensation point: NA

Relative density: NA

Vapor density: NA

Evaporation rate: NA

Solubility: Soluble in the following materials: water

10. STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant information available

10.2. Chemical stability

Stable under recommended conditions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air

10.4. Conditions to avoid

Heat, flames and sparks

10.5. Incompatible materials

Acid chlorides, acid anhydrides, oxidizing agents, alkali metals, reducing agents, acids.

10.6. Hazardous decomposition products

Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Methanol

LD50 oral rat	1,187-2,769 mg/kg
LC50 inhalation rat (mg/l)	128.2 mg/l (4hr)
LC50 inhalation rat (mg/l)	87.6 mg/l (6hr)
LD50 Dermal rabbit	17,100 mg/kg

Sodium Bicarbonate

LD50 oral rat	4220 mg/kg
ATE US (oral)	4220 mg/kg body weight

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: No irritating effect

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not Classified

12. ECOLOGICAL INFORMATION

Toxicity:

Methanol

Mortality LC50- *Lepomis macrochirus*, 15,400 mg/l (96h)

NOEC- *Oryzias latipes*, 7,900 mg/l (200h)

Persistence and degradability:

Methanol

Biodegradability, 72% (aerobic-exposure time 5 d)

Bioaccumulative potential:

Methanol

Biaccumulation, *Cyprinus carpio*- 72d at 20°C, 5 mg/l

Mobility in soil:

Methanol (67-56-1)

Surface tension 0.023 N/m (20°C)

PBT and vPvB assessment:

no data available

Other adverse effects:

Stability in water at 19°C 83-91%- 72hr

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1230

Class: 3

Packing Group: II

Proper Shipping name: Methanol

Reportable Quantity: 5000lb

IMDG/IATA

UN number: 1230

Class: 3 (6.1)

Packing Group: II

Proper Shipping name: Methanol

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Methanol

Reportable quantity, section 304 of EPA's list of lists, 5000 lb

Sodium Bicarbonate

SARA Section 311/312 Hazard classes, Immediate (acute) health hazard

15.2 International Regulations (WHMIS Classifications)

Sodium Bicarbonate

Listed on the Canadian DSL

15.3 California Proposition 65



WARNING: This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)



Notice to reader

This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Astral Diagnostics, Inc be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.