

MATERIAL SAFETY DATA SHEET

Buffer solution pH 10 (borate) traceable to NIST, colored blue

Section 1 - Chemical Product and Company Identification

MSDS Name: Buffer solution pH 10 (borate) traceable to NIST, colored blue

Catalog Numbers: 38389-0000, 38389-0010

Synonyms:

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#	Hazard Symbols:	Risk Phrases:
76-61-9	Thymol blue	0.0003%	200-973-3		
1310-73-2	Sodium hydroxide	0.175%	215-185-5	C	35
7447-40-7	Potassium chloride	0.373%	231-211-8		
7732-18-5	Water	Balance	231-791-2		
10043-35-3	Boric acid	0,309%	233-139-2	T	60 61

Text for R-phrases: see Section 16

Hazard Symbols: None listed**Risk Phrases:** None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Not available

Potential Health Effects

Eye: May cause eye irritation.**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled.**Chronic:**

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Get medical aid. Wash mouth out with water.
Inhalation:	Remove from exposure and move to fresh air immediately.
Notes to Physician:	Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Extinguishing Media:	Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Section 6 - Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Section 7 - Handling and Storage

Handling:	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Storage:	Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 76-61-9:

CAS# 1310-73-2:

United Kingdom, WEL - STEL: 2 mg/m³ STEL

United States OSHA: 2 mg/m³ TWA

Belgium - TWA: 2 mg/m³ VLE

France - VME: 2 mg/m³ VME

Germany: 2 mg/m³ TWA (inhalable fraction)

Japan: 2 mg/m³ Ceiling

Malaysia: 2 mg/m³ Ceiling

Spain: 2 mg/m³ VLA-EC

CAS# 7447-40-7:

CAS# 7732-18-5:

CAS# 10043-35-3:

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid
Color: blue
Odor: odorless
pH: 10
Vapor Pressure: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: Not available
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: Miscible
Specific Gravity/Density: 1.000
Molecular Formula:
Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability:	Stable.
Conditions to Avoid:	Not available
Incompatibilities with Other Materials	Not available
Hazardous Decomposition Products	Not available
Hazardous Polymerization	Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 76-61-9: XP2575000
CAS# 1310-73-2: WB4900000
CAS# 7447-40-7: TS8050000
CAS# 7732-18-5: ZC0110000
CAS# 10043-35-3: ED4550000 ED4560000

LD50/LC50: RTECS: Not available. RTECS:
CAS# 1310-73-2: Draize test, rabbit, eye: 400 ug Mild;
Draize test, rabbit, eye: 1% Severe;
Draize test, rabbit, eye: 50 ug/24H Severe;
Draize test, rabbit, eye: 1 mg/24H Severe;
Draize test, rabbit, skin: 500 mg/24H Severe;
.
RTECS:
CAS# 7447-40-7: Draize test, rabbit, eye: 500 mg/24H Mild;
Oral, mouse: LD50 = 1500 mg/kg;
Oral, rat: LD50 = 2600 mg/kg;
.
RTECS:
CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg;

RTECS:

CAS# 10043-35-3: Oral, mouse: LD50 = 3450 mg/kg;

Oral, rat: LD50 = 2660 mg/kg;

Oral, rat: LD50 = 2500 mg/kg;

Carcinogenicity: Thymol blue - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Sodium hydroxide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Potassium chloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Water - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Boric acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated as a hazardous material	Not regulated as a hazardous material	Not regulated as a hazardous material
Hazard Class:			
UN Number:			
Packing Group:			

USA RQ: CAS# 1310-73-2: 1000 lb final RQ; 454 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 76-61-9: Not available

CAS# 1310-73-2: 1

CAS# 7447-40-7: 1

CAS# 7732-18-5: Not available

CAS# 10043-35-3: 1

Canada

CAS# 76-61-9 is listed on Canada's DSL List

CAS# 1310-73-2 is listed on Canada's DSL List

CAS# 7447-40-7 is listed on Canada's DSL List

CAS# 7732-18-5 is listed on Canada's DSL List

CAS# 10043-35-3 is listed on Canada's DSL List

US Federal

TSCA

CAS# 76-61-9 is listed on the TSCA Inventory.

CAS# 1310-73-2 is listed on the TSCA Inventory.
CAS# 7447-40-7 is listed on the TSCA Inventory.
CAS# 7732-18-5 is listed on the TSCA Inventory.
CAS# 10043-35-3 is listed on the TSCA Inventory.

Section 16 - Other Information

Text for R-phrases from Section 2

- R 35 Causes severe burns.
- R 60 May impair fertility.
- R 61 May cause harm to the unborn child.

MSDS Creation Date: 11/08/2004

Revision #0 Date Original.

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