

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product and Company Identification

MSDS Name: Buffer Solution, pH 10.00 Color-Coded Blue, Certified
Catalog Numbers: AC611020040, AC611025000
Synonyms: None.
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#: 584-08-7
Chemical Name: Potassium carbonate
%: 0.6
EINECS#: 209-529-3
Hazard Symbols:
Risk Phrases:

CAS#: 1310-58-3
Chemical Name: Potassium hydroxide
%: 0.2
EINECS#: 215-181-3
Hazard Symbols:
Risk Phrases:

CAS#: 1332-77-0
Chemical Name: Potassium borate
%: 0.4
EINECS#: 215-575-5
Hazard Symbols:
Risk Phrases:

CAS#: 3844-45-9
Chemical Name: C.I. Acid blue 9, disodium salt
%: 0.02
EINECS#: 223-339-8
Hazard Symbols:

Risk Phrases:

CAS#: 6381-92-6
Chemical Name: Disodium ethylenediaminetetraacetate dihydrate
%: 1.0
EINECS#: unlisted
Hazard Symbols:
Risk Phrases:

CAS#: 7732-18-5
Chemical Name: Water
%: 97.78
EINECS#: 231-791-2
Hazard Symbols:
Risk Phrases:

Text for R-phrases: see Section 16

Hazard Symbols: None listed

Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! This is expected to be a low hazard for usual industrial handling. May cause irritation. Target Organs: No data found.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause mild skin irritation. Low hazard for usual industrial handling.

Ingestion: Low hazard for usual industrial handling. May cause gastric disturbances and electrolytic imbalance.

Inhalation: May cause respiratory tract irritation. Low hazard for usual industrial handling.

Chronic: None

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

Skin: Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Wash mouth out with water. Get medical aid if irritation or symptoms occur.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. Get medical aid if cough or other symptoms appear.

Notes to Physician:

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. For small fires, use dry chemical, carbon dioxide, water spray or regular foam.

Autoignition Temperature: Not applicable.

Flash Point: Not available

Explosion Limits: Not available

Lower:

Explosion Limits: Not available

Upper:

NFPA Rating: health: 1; flammability: 0; instability: 0;

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash hands before eating. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage: Store in a cool, dry place.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Potassium carbonate listed	none listed	none listed	none
Potassium hydroxide listed	2 mg/m3 Ceiling	none listed	none
Potassium borate listed	none listed	none listed	none
C.I. Acid blue 9, disodium salt	none listed	none listed	none
Disodium ethylenediaminetetraacetate dihydrate	none listed	none listed	none

Water listed	none listed	none listed	none listed
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OSHA Vacated PELs: Potassium carbonate: None listed Potassium hydroxide: None listed Potassium borate: None listed C.I. Acid blue 9, disodium salt: None listed Disodium ethylenediaminetetraacetate dihydrate: None listed Water: None listed

Personal Protective Equipment

- Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to minimize contact with skin.
- 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: Liquid
Color: clear, colorless
Odor: odorless
pH: 10.0
Vapor Pressure: Not available
Vapor Density: Not available
Evaporation Rate: >1 (Water=1)
Viscosity: Not available
Boiling Point: 212 deg F (100.00°C)
Freezing/Melting Point: 32 deg F (0.00°C)
Decomposition Temperature: Not available
Solubility in water: Soluble
Specific Gravity/Density:
Molecular Formula: Mixture
Molecular Weight: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable.
Conditions to Avoid: None reported.
Incompatibilities with Other Materials: None reported.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 584-08-7: TS7750000
CAS# 1310-58-3: TT2100000
CAS# 1332-77-0: None listed
CAS# 3844-45-9: BQ4725000
CAS# 6381-92-6: AH4410000
CAS# 7732-18-5: ZC0110000

LD50/LC50: RTECS:
CAS# 584-08-7: Oral, mouse: LD50 = 2570 mg/kg;
Oral, rat: LD50 = 1870 mg/kg;

RTECS:

CAS# 1310-58-3: Draize test, rabbit, skin: 50 mg/24H Severe;
Oral, rat: LD50 = 273 mg/kg;

RTECS:

CAS# 1332-77-0:

RTECS:

CAS# 3844-45-9:

RTECS:

CAS# 6381-92-6:

RTECS:

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg;

Carcinogenicity: Potassium carbonate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Potassium hydroxide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Potassium borate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
C.I. Acid blue 9, disodium salt - IARC: Group 3 (not classifiable)
Disodium ethylenediaminetetraacetate dihydrate - 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.

Epidemiology: Not available
Teratogenicity: Not available
Reproductive: Not available
Neurotoxicity: Not available
Mutagenicity: Not available
Other: Not available

Section 12 - Ecological Information

Other:

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

USA RQ: CAS# 1310-58-3: 1000 lb final RQ; 454 kg final RQ

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 584-08-7 is listed on the TSCA Inventory.

CAS# 1310-58-3 is listed on the TSCA Inventory.

CAS# 1332-77-0 is listed on the TSCA Inventory.

CAS# 3844-45-9 is listed on the TSCA Inventory.

CAS# 6381-92-6 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the Inventory (40CFR720.3(u)(2)).

CAS# 7732-18-5 is listed on the TSCA Inventory.

Health & Safety Reporting List	None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules Section 12b	None of the chemicals in this product are under a Chemical Test Rule.
TSCA Significant New Use Rule	None of the chemicals are listed under TSCA Section 12b.
CERCLA Hazardous Substances and corresponding RQs	None of the chemicals in this material have a SNUR under TSCA.
SARA Section 302 Extremely Hazardous Substances	CAS# 1310-58-3: 1000 lb final RQ; 454 kg final RQ
SARA Codes	None of the chemicals in this product have a TPQ.
Section 313 Clean Air Act:	CAS # 584-08-7: acute. CAS # 1310-58-3: acute, reactive. CAS # 6381-92-6: acute.
Clean Water Act:	No chemicals are reportable under Section 313.
OSHA: STATE	This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.
California Prop 65 California No Significant Risk Level:	CAS# 1310-58-3 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
European/International Regulations	OSHA: STATE Potassium carbonate is not present on state lists from CA, PA, MN, MA, FL, or NJ. Potassium hydroxide can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts. Potassium borate is not present on state lists from CA, PA, MN, MA, FL, or NJ. C.I. Acid blue 9, disodium sal can be found on the following state right to know lists: California, New Jersey, Massachusetts. Disodium ethylenediaminetetraacetate dihydrate is not present on state lists from CA, PA, MN, MA, FL, or NJ. Water is not present on state lists from CA, PA, MN, MA, FL, or NJ.
California Prop 65 California No Significant Risk Level:	None of the chemicals in this product are listed.

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# 584-08-7: 1

CAS# 1310-58-3: 1

CAS# 1332-77-0: Not available

CAS# 3844-45-9: 1

CAS# 6381-92-6: 2

CAS# 7732-18-5: Not available

Canada

CAS# 584-08-7 is listed on Canada's DSL List

CAS# 1310-58-3 is listed on Canada's DSL List

CAS# 1332-77-0 is listed on Canada's DSL List

CAS# 3844-45-9 is listed on Canada's DSL List

CAS# 6381-92-6 is listed on Canada's DSL List

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

Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 584-08-7 is listed on Canada's Ingredient Disclosure List

CAS# 1310-58-3 is listed on Canada's Ingredient Disclosure List

CAS# 1332-77-0 is not listed on Canada's Ingredient Disclosure List.

CAS# 3844-45-9 is not listed on Canada's Ingredient Disclosure List.

CAS# 6381-92-6 is not listed on Canada's Ingredient Disclosure List.

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: 11/05/2001

Revision #2 Date 10/05/2004

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company 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 howsoever arising, even if the company has been advised of the possibility of such damages.