

Material Safety Data Sheet
 Buffer Solution, pH 7.00, Color-Coded Yellow, Certified
 MSDS# 91989
 Section 1 - Chemical Product and Company Identification
 MSDS Name: Buffer Solution, pH 7.00, Color-Coded Yellow, Certified
 Catalog Numbers: AC611060040, AC611065000
 Synonyms: None
 Company Identification:

Acros Organics BVBA
 Janssen Pharmaceuticaal 3a
 2440 Geel, Belgium
 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#: 1310-73-2
 Chemical Name: Sodium hydroxide
 %: 0.1
 EINECS#: 215-185-5
 Hazard Symbols: C
 Risk Phrases: 35

CAS#: 1934-71-0
 Chemical Name: FD&C Yellow 5
 %: 0.0-0.02
 EINECS#: 217-699-5
 Hazard Symbols:
 Risk Phrases:

CAS#: 7732-18-5
 Chemical Name: Water
 %: 99.18
 EINECS#: 231-791-2
 Hazard Symbols:
 Risk Phrases:

CAS#: 7778-77-0
 Chemical Name: Potassium phosphate monobasic
 %: 0.7
 EINECS#: 231-913-4
 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: None.
 Potential Health Effects

Eye:
 May cause mild eye irritation.
 Skin:
 Non-irritating to the skin. 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:
 Gently lift eyelids and flush continuously with water. If irritation develops, get medical aid.
 Skin:
 Flush skin with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
 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. Substance is noncombustible.

Extinguishing Media:
 Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

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.

Section 7 - Handling and Storage

Handling:
 Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid contact with eyes. Keep container tightly closed. Use with adequate ventilation.

Storage:
 Store in a cool, dry place. No special precautions indicated.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
 Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium hydroxide	2 mg/m3 Ceiling	10 mg/m3 IDLH	2 mg/m3 TWA
FD&C Yellow 5	none listed	none listed	none listed
Water	none listed	none listed	none listed
Potassium phosphate monobasic	none listed	none listed	none listed

OSHA Vacated PELs:

Sodium hydroxide:
 None listed

FD&C Yellow 5:
 None listed

Water:
 None listed

Potassium phosphate monobasic:
 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:
 Protective garments not normally required.

Clothing:
 Protective garments not normally required.

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: yellow
 Odor: odorless
 pH: 7.00 @ 25C
 Vapor Pressure: 760 mm Hg @ 20C
 Vapor Density: Not available
 Evaporation Rate: Not available

DATE: 03/20/07 ACCT: 416870601 PAGE: 3
INDEX: D70785837 CAT NO: AC611065000 PO NBR: MW/VC/03/19/07

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: 1.0
Molecular Formula: Mixture
Molecular Weight: 0

Chemical Stability: Section 10 - Stability and Reactivity

Stable.

Conditions to Avoid: None reported.

Incompatibilities with Other Materials: Not available

Not available

Hazardous Decomposition Products: None.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTCS#:

CAS# 1310-73-2: WB4900000

CAS# 1934-21-0: UQ6400000

CAS# 7732-18-5: ZC0110000

CAS# 7778-77-0: TC6615500

LD50/LC50:

RTCS: 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;

RTCS: CAS# 1934-21-0: Oral, mouse: LD50 = 12750

mg/kg;

RTCS: CAS# 7732-18-5: Oral, rat: LD50 = >90

mL/kg;

RTCS: CAS# 7778-77-0: Skin, rabbit: LD50 = >4640

mg/kg;

Carcinogenicity:

Sodium hydroxide -
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

FD&C Yellow 5 -
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.

Potassium phosphate monobasic -
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# 1310-73-2: 1000 lb final RQ; 454 kg final RQ

Section 15 - Regulatory Information

Federal

TSCA

CAS# 1310-73-2 is listed on the TSCA Inventory.

CAS# 1934-21-0 is listed on the TSCA Inventory.

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

CAS# 7778-77-0 is listed on the TSCA Inventory.

Health & Safety Reporting List

1,982

DATE: 03/20/07 ACCT: 416870601 PAGE: 4
INDEX: D70785837 CAT NO: AC611065000 PO NBR: MW/VC/03/19/07

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

f the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQS

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

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPO.

SARA Codes

CAS # 1310-73-2: acute, reactive.

CAS # 1934-21-0: acute.

CAS # 7778-77-0: acute.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

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.

Clean Water Act:

CAS# 1310-73-2 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.

OSHA:

STATE

Sodium hydroxide can be found on the following state right to know

lists: California, New Jersey, Pennsylvania, Minnesota,

Massachusetts.

FD&C Yellow 5 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.

Potassium phosphate monobasic 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/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# 1310-73-2: 1

CAS# 1934-21-0: 1

CAS# 7732-18-5: Not available

CAS# 7778-77-0: 1

Canada

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

CAS# 1934-21-0 is listed on Canada's DSL List

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

CAS# 7778-77-0 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# 1310-73-2 is listed on Canada's Ingredient Disclosure

List

CAS# 1934-21-0 is not listed on Canada's Ingredient

Disclosure List.

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

Disclosure List.

CAS# 7778-77-0 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

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special, indirect, incidental, consequential, or exemplary damages

howsoever arising, even if the company has been advised of the

possibility of such damages.