



Material Safety Data Sheet

Issuing date 23-Sep-2011

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Swisher Blue RTU

Product code 40113-32OZ

Distributor

Swisher Hygiene Inc.
4725 Piedmont Row Drive,
Suite 400,
Charlotte, NC 28210

Chemical Emergency Phone Number 800-424-9300 (Chemtrec)

Company Emergency Phone Number 800-444-4138

2. HAZARDS IDENTIFICATION

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Thin Liquid

Physical state liquid.

Odor Pleasant

Potential Health Effects

Acute toxicity

| | |
|-------------------|-------------------------|
| Eyes | Irritation or burns |
| Skin | Irritation or burns |
| Inhalation | Irritation or dizziness |
| Ingestion | Dizziness, nausea |

Chronic Effects No known effect based on information supplied

Aggravated Medical Conditions None known.

Environmental hazard See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Chemical Name | CAS-No | Weight % |
|-------------------|----------|----------|
| 2-Butoxyethanol | 111-76-2 | <3 |
| Isopropyl alcohol | 67-63-0 | <2 |

4. FIRST AID MEASURES

| | |
|---------------------------|---|
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Skin contact | Flush immediately with plenty of water. If irritation develops, get medical attention. |
| Inhalation | Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get medical help. |
| Ingestion | Give milk or water to dilute material; DO NOT induce vomiting. Avoid alcohol. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY; NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. |
| Notes to physician | Treat symptomatically |

5. FIRE-FIGHTING MEASURES

| | | | | |
|--|--|-----------------------|--------------------------|--|
| Flammable Properties | Flammable | | | |
| Flash point | 160 °F | | | |
| Suitable Extinguishing Media | Water spray or fog, foam, dry chemical, carbon dioxide if product is involved. | | | |
| Hazardous Combustion Products | If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous oxides. | | | |
| Explosion Data | | | | |
| Sensitivity to Mechanical Impact | none | | | |
| Sensitivity to Static Discharge | none | | | |
| Specific hazards arising from the chemical | Flammable. Keep away from heat, sparks and open flame. Use water spray to cool adjacent fire exposed containers. | | | |
| Protective Equipment and Precautions for Firefighters | Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH approved or equivalent to maintain TLV. | | | |
| NFPA | Health Hazard 0 | Flammability 0 | Stability 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 2 | Flammability 3 | Physical Hazard 0 | Personal protection B |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal precautions | Ensure adequate ventilation |
| Environmental precautions | Try to prevent the material from entering drains or water courses |
| Methods for Containment | Isolate from sources of ignition. |
| Methods for cleaning up | Mop up & flush to sewer with plenty of water. Floors may be slippery. Use care to avoid falls. |

7. HANDLING AND STORAGE

| | |
|--|--|
| Advice on safe handling | Keep out of the reach of children DANGER Flammable Do not get in eyes, on skin or on clothing Do not use or store near heat, sparks, or open flame |
| Technical measures/Storage conditions | Store upright in original closed container. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------------|-------------------------------|--|---|
| 2-Butoxyethanol 111-76-2 | TWA: 20 ppm | TWA: 50 ppm TWA: 240 mg/m ³ S* | IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³ |
| Isopropyl alcohol 67-63-0 | STEL: 400 ppm TWA: 200 ppm | TWA: 400 ppm TWA: 980 mg/m ³ | IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³ |

Other Exposure Guidelines Local exhaust preferred. Mechanical (general) acceptable. Avoid breathing vapor or spray.

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment
Eye/Face Protection Safety glasses with side-shields
Skin and body protection Solvent-proof gloves
Respiratory protection Normal room ventilation

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | | | |
|---|--------------------------|--------------------------|--------------------------|
| Physical state | liquid | | |
| Appearance | Thin Liquid | Odor | Pleasant |
| Color | clear blue | Odor Threshold | No information available |
| Property | Values | Remarks | Methods |
| pH | 9.5 | No information available | |
| Melting/freezing point | | No information available | |
| Freezing Point | | No information available | |
| Boiling point/boiling range | 180 °F | No information available | |
| Flash Point | 160 °F | No information available | |
| Evaporation rate | 1.0 | No information available | |
| Flammability (solid, gas) | | No information available | |
| Flammability Limits in Air | | No information available | |
| upper flammability limit | | | |
| lower flammability limit | | | |
| Explosion Limits | | | |
| upper | | | |
| lower | | | |
| Vapor pressure | 100 | No information available | |
| Vapor density | 3 | No information available | |
| Specific Gravity | 0.996 | No information available | |
| Water solubility | completely soluble | No information available | |
| Solubility in other solvents | | No information available | |
| Partition coefficient: n-octanol/water | | No information available | |
| Autoignition temperature | | No information available | |
| Decomposition temperature | | No information available | |
| Viscosity, kinematic | | No information available | |
| Viscosity, dynamic | | No information available | |
| Explosive properties | No information available | | |

Oxidizing Properties No information available

9.2 Other information

Softening point No information available

Molecular Weight No information available

VOC Content(%) No information available

Density VALUE No information available

Bulk Density VALUE No information available

10. STABILITY AND REACTIVITY

Stability Stable Store below 115°F

Incompatible products Strong oxidizing agents Bleach

Conditions to Avoid None known based on information supplied

Hazardous Decomposition Products If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous oxides.

Hazardous Polymerization Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------------|--------------------|--|---|
| 2-Butoxyethanol | 470 mg/kg (Rat) | 220 mg/kg (Rabbit) 2270 mg/kg (Rat) | 2.21 mg/L (Rat) 4 h 450 ppm (Rat) 4 h |
| Isopropyl alcohol | 4396 mg/kg (Rat) | 12800 mg/kg (Rat) 12870 mg/kg (Rabbit) | 72.6 mg/L (Rat) 4 h |

Chronic toxicity

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|-------------------|-------|--------------------|-----|------|
| 2-Butoxyethanol | A3 | Group 3 | | |
| Isopropyl alcohol | | Group 1 Group 3 | | X |

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|-----------------|-------------------|--|----------------------------|---|
| 2-Butoxyethanol | | 1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50 | | 1698 - 1940: 24 h Daphnia magna mg/L EC50 >1000: 48 h Daphnia magna mg/L EC50 |

| | | | |
|-------------------|--|--|-------------------------------------|
| Isopropyl alcohol | 1000: 72 h Desmodemus subspicatus mg/L EC50 1000: 96 h Desmodemus subspicatus mg/L EC50 | 11130: 96 h Pimephales promelas mg/L LC50 static 9640: 96 h Pimephales promelas mg/L LC50 flow-through 1400000: 96 h Lepomis macrochirus µg/L LC50 | 13299: 48 h Daphnia magna mg/L EC50 |
|-------------------|--|--|-------------------------------------|

| Chemical Name | log Pow |
|-------------------|---------|
| 2-Butoxyethanol | 0.81 |
| Isopropyl alcohol | 0.05 |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements

Contaminated packaging

Do not re-use empty containers

| Chemical Name | California Hazardous Waste Status |
|-------------------|-----------------------------------|
| Isopropyl alcohol | Toxic Ignitable |

14. TRANSPORT INFORMATION

| | |
|-----------------------------|----------------------------------|
| <u>Dot</u> | Not regulated |
| <u>Proper shipping name</u> | Cleaning Compound, Not Regulated |
| <u>TDG</u> | Not regulated |
| <u>MEX</u> | Not regulated |
| <u>ICAO</u> | Not regulated |
| <u>ICAO/IATA</u> | Not regulated |
| <u>IMDG / IMO</u> | Not regulated |
| <u>RID</u> | Not regulated |
| <u>ADR/RID</u> | Not regulated |
| <u>ADN</u> | Not regulated |

15. REGULATORY INFORMATION

International Inventories

| | |
|--------|----------|
| TSCA | TSCA |
| DSL | Complies |
| NDSL | Complies |
| EINECS | Complies |
| ELINCS | - |
| ENCS | Complies |
| IECSC | Complies |

| | |
|--------------|----------|
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

SARA TITLE III (EPCRA) NOTIFICATION: ISOPROPYL ALCOHOL, GLYCOL ETHERS [Reportable under section 313 and section 6607 of the Pollution Prevention Act] COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) NOTIFICATION: GLYCOL ETHERS For more information, consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute Health Hazard | no |
| Chronic Health Hazard | no |
| Fire Hazard | no |
| Sudden Release of Pressure Hazard | no |
| Reactive Hazard | no |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

International Regulations

| Chemical Name | Carcinogen Status | Exposure Limits |
|-------------------|-------------------|---|
| 2-Butoxyethanol | | Mexico: TWA 26 ppm Mexico: TWA 120 mg/m ³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m ³ |
| Isopropyl alcohol | | Mexico: TWA 400 ppm Mexico: TWA 980 mg/m ³ Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m ³ |

Canada

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

| Chemical Name | NPRI |
|-------------------|------|
| 2-Butoxyethanol | X |
| Isopropyl alcohol | X |

16. OTHER INFORMATION

Prepared By Swisher Hygiene Inc.
4725 Piedmont Row Drive
Suite 400
Charlotte, NC 28210

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Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Material Safety Data Sheet