

Material Safety Data Sheet



GLOSSTEK 100 PART A

Section 1. Chemical product and company identification

Trade name : GLOSSTEK 100 PART A
Product use : Floor care product
Supplier : Ecolab Inc. Professional Products Division
370 N. Wabasha St.
St. Paul, MN 55102
1-800-247-5362
Code : 908147-02
Date of issue : 02-March-2005

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352

Section 2. Composition, Information on Ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
hexane, 1,6-diisocyanato-, homopolymer	28182-81-2	>50

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : Warning!

CAUSES RESPIRATORY TRACT AND EYE IRRITATION.
MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION.
MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE SKIN IRRITATION.

Do not ingest. Avoid contact with skin and clothing. Do not breathe vapor or mist.
Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Irritating to eyes.
Skin : Moderately irritating to the skin. May cause sensitization by skin contact.
Inhalation : Irritating to respiratory system. May cause sensitization by inhalation.
Ingestion : Harmful if swallowed.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion : Rinse mouth; then drink one or two large glasses of water. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire fighting measures

- Flash point** : > 100°C
- Fire fighting media and instructions** : Use an extinguishing agent suitable for surrounding fires.
- Dike area of fire to prevent product run-off.
Cool closed containers exposed to fire with water.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.-

Section 7. Handling and storage

- Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Store between 10 and 30°C

Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection

- Eyes** : Use safety eyewear designed to protect against splash of liquids.
- Hands** : Use chemical resistant, impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state : Liquid. (Liquid.)
Color : Yellow.
Odor : Odorless.
pH : Not applicable.
Specific gravity : 1.16 (Water = 1)
Viscosity : Dynamic: 3500 cP

Section 10. Stability and reactivity

Stability : The product is stable.
Reactivity : Reactive with organic materials, metals, acids, alkalis, moisture.

Section 11. Toxicological information

Potential acute health effects

Eyes : Irritating to eyes.
Skin : Moderately irritating to the skin. May cause sensitization by skin contact.
Inhalation : Irritating to respiratory system. May cause sensitization by inhalation.
Ingestion : Harmful if swallowed.

Potential chronic health effects

Section 12. Ecological information

Products of degradation : These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂...).

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	Not regulated.	-	-	-	-

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

HCS Classification : Irritating material
 Sensitizing material
U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: None.
 SARA 302/304 emergency planning and notification: None.
TSCA 8(b) inventory : All materials are listed or exempt.

California prop. : No products were found.

65

Section 16. Other information

Hazardous Material Information System (U.S.A.)	:	Health	2
		Fire hazard	0
		Reactivity	1
		Personal protection	B

Date of issue : 02-March-2005.

Responsible : Regulatory Affairs
name

Date of previous : No Previous Validation.
issue

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

Material Safety Data Sheet



GLOSSTEK 100 PART B

Section 1. Chemical product and company identification

Trade name : GLOSSTEK 100 PART B
Product use : Floor care product
Supplier : Ecolab Inc. Professional Products Division
370 N. Wabasha St.
St. Paul, MN 55102
1-800-247-5362
Code : 908146-02
Date of issue : 21-April-2005

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, Information on Ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
dipropylene glycol methyl ether	34590-94-8	1 - 5
Alkanol polyoxypolyamine	proprietary	1 - 5
Alkanol Ether	proprietary	1 - 5

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : CAUTION

MAY CAUSE EYE IRRITATION.
Repeated or prolonged contact with irritants may cause dermatitis.
Avoid contact with eyes. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to the eyes.
Skin : Slightly irritating to the skin.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

See toxicological Information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Skin contact : Wash with soap and water. Get medical attention if irritation develops. Wash clothing before reuse.

Inhalation : If inhaled, remove to fresh air.

Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire fighting measures

- Flash point** : >93 °C (Open cup)
- Fire fighting media and instructions** : Use an extinguishing agent suitable for surrounding fires.
- Dike area of fire to prevent product run-off.
No specific hazard.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.-
-

Section 7. Handling and storage

- Handling** : Avoid contact with eyes. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Do not store below 20°C

Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal protection

- Eyes** : Eye protection recommended.
- Hands** : No protective equipment is needed under normal use conditions.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : No protective equipment is needed under normal use conditions.

Name

dipropylene glycol methyl ether

Exposure limits

ACGIH TLV (United States, 9/2004). Skin
 STEL: 909 mg/m³ 15 minute(s). Form: All forms
 STEL: 150 ppm 15 minute(s). Form: All forms
 TWA: 606 mg/m³ 8 hour(s). Form: All forms
 TWA: 100 ppm 8 hour(s). Form: All forms
OSHA PEL (United States, 6/1993). Skin
 TWA: 600 mg/m³ 8 hour(s). Form: All forms
 TWA: 100 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties

Physical state : Liquid. (Liquid.)
Color : White.
Odor : Faint Odor
pH : 10 to 11 (100%)
Boiling/condensation point : >100 °C
Specific gravity : 1.059 (Water = 1)
Dispersion properties : Partially dispersed in cold water, hot water.

Section 10. Stability and reactivity

Stability : The product is stable.
Reactivity : Reactive with metals, acids.
Hazardous polymerization : Yes.

Section 11. Toxicological information

Potential acute health effects

Eyes : Moderately irritating to the eyes.
Skin : Slightly irritating to the skin.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Chronic effects on humans : Contains material which causes damage to the following organs: upper respiratory tract, central nervous system (CNS), eye, lens or cornea.

Section 12. Ecological information

Products of degradation : These products are carbon oxides (CO, CO₂) and water.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	Not regulated.	-	-	-	-

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

HCS Classification : Irritating material
 Target organ effects

U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: None.
 SARA 302/304 emergency planning and notification: None.

TSCA 8(b) inventory : All materials are listed or exempt.

California prop. 65 : No products were found.

Section 16. Other information

Hazardous Material Information System (U.S.A.)	Health	*	1
	Fire hazard		0
	Reactivity		0
	Personal protection		A

Date of issue : 21-April-2005.
Responsible name : Regulatory Affairs
Date of previous issue : 21-April-2005.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

Material Safety Data Sheet



GLOSSTEK 100 PART C

Section 1. Chemical product and company identification

Trade name : GLOSSTEK 100 PART C
Product use : Floor care product
Supplier : Ecolab Inc. Professional Products Division
370 N. Wabasha St.
St. Paul, MN 55102
1-800-247-5362
Code : 908148-02
Date of issue : 30-March-2005

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352

Section 2. Composition, Information on Ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
2-butoxyethanol	111-76-2	3

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : CAUTION

MAY CAUSE EYE IRRITATION.
Repeated or prolonged contact with irritants may cause dermatitis.
Avoid contact with eyes. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to the eyes.
Skin : Slightly irritating to the skin.
Inhalation : Slightly irritating to the respiratory system.
Ingestion : No known significant effects or critical hazards.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Skin contact : Wash with soap and water. Get medical attention if irritation develops. Wash clothing before reuse.

Inhalation : If inhaled, remove to fresh air.

Ingestion : Rinse mouth; then drink one or two large glasses of water. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Section 5. Fire fighting measures

Flash point	: > 100°C
Fire fighting media and instructions	: Use an extinguishing agent suitable for surrounding fires. Dike area of fire to prevent product run-off. No specific hazard.
Special protective equipment for fire-fighters	: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions	: Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas.
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up	: If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.- -

Section 7. Handling and storage

Handling	: Do not ingest. Avoid contact with eyes. Wash thoroughly after handling.
Storage	: Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 10 and 30°C

Section 8. Exposure Controls, Personal Protection

Engineering controls	: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.
-----------------------------	--

Personal protection

Eyes	: Eye protection recommended.
Hands	: Use chemical resistant, impervious gloves.
Skin	: No protective equipment is needed under normal use conditions.
Respiratory	: No protective equipment is needed under normal use conditions.

Name

2-butoxyethanol

Exposure limits

ACGIH TLV (United States, 1/2004). Notes: 2002 Adoption.

TWA: 20 ppm 8 hour(s). Form: All forms

OSHA PEL (United States, 6/1993). Skin

TWA: 240 mg/m³ 8 hour(s). Form: All forms

TWA: 50 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties

Physical state : Liquid. (Liquid.)
Color : White.
Odor : Odorless.
pH : Not applicable.
Boiling/condensation point : >100 °C
Specific gravity : 1.014 (Water = 1)
Solubility : Easily soluble in cold water, hot water.

Section 10. Stability and reactivity

Stability : The product is stable.

Section 11. Toxicological information

Potential acute health effects

Eyes : Moderately irritating to the eyes.
Skin : Slightly irritating to the skin.
Inhalation : Slightly irritating to the respiratory system.
Ingestion : No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects on humans : Contains material which causes damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Section 12. Ecological information

Products of degradation : These products are carbon oxides (CO, CO₂) and water.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	Not regulated.	-	-	-	-

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

HCS Classification : Toxic material
Irritating material
Target organ effects

U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: None.
SARA 302/304 emergency planning and notification: None.

TSCA 8(b) inventory : All materials are listed or exempt.

SARA 313

	<u>Product name</u>	<u>Concentration</u>
Form R - Reporting requirements	: 2-butoxyethanol	2 - 4

California prop. 65 : No products were found.

Section 16. Other information

Hazardous Material Information System (U.S.A.)	Health	*	1
	Fire hazard		0
	Reactivity		0
	Personal protection		B

Date of issue : 30-March-2005.

Responsible name : Regulatory Affairs

Date of previous issue : 30-March-2005.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.