

Material Safety Data Sheet



GLOSSTEK 400 PART A

Section 1. Chemical product and company identification

Trade name : GLOSSTEK 400 PART A
Product use : Floor care product
Supplier : Ecolab Inc.
370 N. Wabasha St.
St. Paul, MN 55102
1-800-352-5326
Code : 911163
Date of issue : 14-January-2008

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>
hexane, 1,6-diisocyanato-, homopolymer	28182-81-2	>50

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : WARNING!

CAUSES SEVERE EYE IRRITATION.
CAUSES RESPIRATORY TRACT IRRITATION.
MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION.
MAY CAUSE SKIN IRRITATION.

Avoid contact with eyes, 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 : Severely 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 : Irritating to mouth, throat and stomach.

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 immediately.

Skin contact : Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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

Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire fighting measures

- Flash point** : > 100°C
- Products of combustion** : nitrogen oxides (NO, NO₂ etc.) and carbon oxides (CO, CO₂)
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
- Dike liquid for later disposal.
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 face-piece 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. Do not allow to enter drains or watercourses.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- 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 sealable, 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, skin and clothing. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. 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 the following temperatures: 0 and 40°C

Section 8. Exposure controls, personal protection

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection :

- Eyes** : Wear eye protection.
- Hands** : Use chemical-resistant, impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

- Physical state** : Liquid. [Liquid.]
- Color** : Yellow.
- Odor** : Aromatic.
- pH** : Not applicable.
- Specific gravity** : 1.16
- Viscosity** : Dynamic: 3500 cP
- Dispersibility properties** : Very slightly dispersible in hot water.
- Solubility** : Very slightly soluble in cold water.

Section 10. Stability and reactivity

Stability : The product is stable.
Hazardous decomposition products : nitrogen oxides (NO, NO₂ etc.) and carbon oxides (CO, CO₂)

Section 11. Toxicological information

Potential acute health effects

Eyes : Severely 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 : Irritating to mouth, throat and stomach.

Section 12. Ecological information

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.	-	-	-	Not available.

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: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
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	2
	Flammability	0
	Physical hazards	0

Date of issue : 14-January-2008.
Responsible name : Regulatory Affairs
Date of previous issue : 14-January-2008.
Notice to reader

Section 16. Other information

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 400 PART B

Section 1. Chemical product and company identification

Trade name : GLOSSTEK 400 PART B
Product use : Floor care product
Supplier : Ecolab Inc.
370 N. Wabasha St.
St. Paul, MN 55102
1-800-352-5326
Code : 911165
Date of issue : 04-January-2008

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
proprietary	NJ 0109111650103	1 - 10

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency : CAUTION!
overview

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 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 : Flush contaminated skin with plenty of water. Wash clothing before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire fighting measures

Flash point : > 100°C Closed cup
Products of combustion : carbon oxides (CO, CO₂) and nitrogen oxides (NO, NO₂ etc.)
Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dike liquid for later disposal.
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 face-piece 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. Do not allow to enter drains or watercourses.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- 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 sealable, 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.
Store between the following temperatures: 5 and 30°C

Section 8. Exposure controls, personal protection

- Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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** : A respirator is not needed under normal and intended conditions of product use.

Name

dipropylene glycol methyl ether

Exposure limits

ACGIH TLV (United States, 1/2007). Skin

STEL: 909 mg/m³ 15 minute(s).

STEL: 150 ppm 15 minute(s).

TWA: 606 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

OSHA PEL (United States, 11/2006). Skin

TWA: 600 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

Section 9. Physical and chemical properties

- Physical state** : Liquid. [Liquid.]
- Color** : White.
- Odor** : Sweet. [Slight]
- pH** : 10 [Conc. (% w/w): 100%]
- Boiling/condensation point** : >100°C (>212°F)
- Specific gravity** : 1.059

Section 10. Stability and reactivity

- Stability** : The product is stable.
- Hazardous decomposition products** : carbon oxides (CO, CO₂) and nitrogen oxides (NO, NO₂ etc.)

Section 11. Toxicological information

Potential acute health effects

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

Potential chronic health effects

- Chronic effects on humans** : Contains material which may cause damage to the following organs: upper respiratory tract, central nervous system (CNS), eye, lens or cornea.

Section 12. Ecological information

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.	-	-	-	Not available.

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: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
- 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
	Flammability		0
	Physical hazards		0

- Date of issue** : 04-January-2008.
Responsible name : Regulatory Affairs
Date of previous issue : 21-September-2005.
Notice to reader

Section 16. Other information

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 400 PART C

Section 1. Chemical product and company identification

Trade name : GLOSSTEK 400 PART C
Product use : Floor care product
Supplier : Ecolab Inc.
370 N. Wabasha St.
St. Paul, MN 55102
1-800-352-5326
Code : 911166
Date of issue : 04-January-2008

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

To the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, according to local regulations.

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : CAUTION!

MAY CAUSE EYE IRRITATION.
Avoid contact with eyes. Wash thoroughly after handling.

Potential acute health effects

Eyes : Slightly irritating to the eyes.
Skin : No known significant effects or critical hazards.
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 occurs.
Skin contact : Flush contaminated skin with plenty of water. Wash clothing before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire fighting measures

Flash point : > 100°C
Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dike liquid for later disposal.
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 face-piece 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. Do not allow to enter drains or watercourses.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- 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 sealable, 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** : 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 the following temperatures: 0 and 40°C

Section 8. Exposure controls, personal protection

- Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection :

- Eyes** : No protective equipment is needed under normal use conditions.
- Hands** : No protective equipment is needed under normal use conditions.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

- Physical state** : Liquid. [Liquid.]
- Color** : White.
- Odor** : Aromatic.
- pH** : Not applicable.
- Boiling/condensation point** : >100°C (>212°F)
- Specific gravity** : 1.014

Section 10. Stability and reactivity

- Stability** : The product is stable.

Section 11. Toxicological information

Potential acute health effects

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

Section 12. Ecological information

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.	-	-	-	Not available.

APPLIES ONLY DURING ROAD TRANSPORT

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

Section 15. Regulatory information

HCS Classification	: Not regulated.	
U.S. Federal regulations	: SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.	
TSCA 8(b) inventory	: All materials are listed or exempt.	
SARA 313	Product name	Concentration
Form R - Reporting requirements	: carbonic acid, ammonium zinc salt (2:2:1)	30 - 40
California Prop. 65	: No products were found.	

Section 16. Other information

Hazardous Material Information System (U.S.A.) :	Health	1
	Flammability	0
	Physical hazards	0

Date of issue : 04-January-2008.
Responsible name : Regulatory Affairs
Date of previous issue : 20-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.