



SAFETY DATA SHEET

NORCHEM CORPORATION encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product Name:	MICROKLEAN
Recommended use of the chemical	Hard Surface Disinfectant Cleaner
Company Identification:	Norchem Corporation 5649 Alhambra Ave. Los Angeles, CA 90032, USA
Customer information number:	Office - (323) 221-0221 Fax - (323) 227-8733
CHEMTREC Emergency phone number (24h):	(800) 424-9300 USA

SECTION II – HAZARDS IDENTIFICATION

GHS Classification: Skin Corrosion/irritation Serious Eye Damage	Category 3 Category 2A
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GHS Label Elements:
Hazard pictograms/symbols



Signal word: Warning

Hazard statement:
H302: Harmful if swallowed
H332: Harmful if inhaled
H315: Cause skin irritation.
H318: Causes serious eye damage

Precautionary Statements:

Prevention

P264: Wash thoroughly after handling.
P280: Wear eye protection/face protection/protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

P401: Store away from incompatible materials.

Disposal

P501: Dispose of contents/container in accordance with regulations.

SECTION III – INFORMATION OF INGREDIENTS

Components	CAS #	WT%
Glycolic acid	79-14-1	5
(2-Methoxymethylethoxy)propanol	34590-94-8	>= 1 - < 5

The specific chemical identities/ components of this product are considered by **NORCHEM** to be trade secrets and are withheld in accordance with the provisions of 1910.1200 Title 29 of the federal Regulation Code.

SECTION IV – FIRST AID MEASURES

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call poison control center or doctor for further treatment advice.

HOTLINE NUMBER: Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-441-3637 for emergency medical treatment information

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Have the product container or label with you when calling poison control center or doctor or going for treatment.

SECTION V – FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: High volume water jet.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions: Move containers from fire area if you can do so without risk.

Specific extinguishing methods: Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up:

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. If dikes material can be pumped, store recovered material in appropriate container. Absorb remaining materials with vermiculite, dry sand or earth and place into properly labeled containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. See Section 13, Disposal Considerations, for additional information.

Environmental precautions:

Avoid discharge into drains, water courses or onto the ground.

SECTION VII – HANDLING AND STORAGE**Precautions for safe handling:**

Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities:

Store in original tightly closed container in a dry and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

SECTION VIII – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure limits: Exposure limits noted for ingredient(s).

Components CAS-No.
(2-Methoxymethylethoxy)propanol 34590-94-8

<u>Value type (Form of Exposure)</u>	<u>Control parameters/ Permissible Concentration</u>	<u>Basis</u>
TWA	100 ppm	ACGIH
STEL	150 ppm	ACGIH
TWA	100 ppm	NIOSH REL
	600 mg/m ³	
ST	150 ppm	NIOSH REL
	900 mg/m ³	
TWA	100 ppm	OSHA Z-1
	600 mg/m ³	

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other protection: Wear appropriate chemical resistant clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Physical State	Liquid.
Color	Clear, light yellow
Odor	Characteristic
Odor Threshold	Not available
pH	2.00 – 3.00
Melting Point/freezing point	No available

Boiling Point	No available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Flammability Limit in Air	
Upper flammability limit:	Not available
Lower flammability limit:	Not available
Vapor Pressure	Not available
Vapor Density (air = 1)	Not available
Solubility in water	Completely miscible
Partition coefficient, n-octanol/ water (log Pow)	Not available
Auto ignition Temperature	No available
Decomposition temperature	Not available
Viscosity	
Kinematic Viscosity	Not available
Dynamic Viscosity	Not available
Other information	
Density	8.34 lbs./gal
Explosive properties	Not explosive
Oxidizing Properties	Not oxidizing
Percent Volatile	Not available
Specific Gravity	1.000

SECTION X – STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage, and transport. Not classified as a reactivity hazard.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use. Can react with strong oxidizing agents. Do not mix with bleach or other chlorinated products.

Conditions to avoid: Extremes of temperature and direct sunlight. Contact with incompatible materials.

Incompatible materials: Oxidizing agents. Bases. Bleach or products containing bleach.

Hazardous decomposition products: Carbon dioxide.

SECTION XI – TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Inhalation, Skin Contact, Ingestion, Eye Contact

Information on toxicological effects:

Acute toxicity: Not classified based on available information

Product: No data available.

Ingredient: Glycolic Acid

Acute oral toxicity:	LD50 (Rat): 2,040 mg/kg Method: US EPA Test Guideline OPP 81-1
Acute inhalation toxicity:	LC50 (Rat): 3.6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403

Assessment: Corrosive to the respiratory tract.
 Acute dermal toxicity: Assessment: The substance or mixture has no acute dermal Toxicity

Ingredient: (2-Methoxymethylethoxy)propanol:

Acute oral toxicity: LD50 (Rat): > 5000 mg/kg
 Method: US EPA Test Guideline OPP 81-1
 Acute inhalation toxicity: LC50 (Rat): > 1.667 mg/l
 Exposure time: 7 h
 Test atmosphere: dust/mist
 Acute dermal toxicity: LD50 (Rabbit): 9510 mg/kg

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization: Not classifiable based on available information

Skin sensitization: Not classifiable based on available information

Germ cell mutagenicity Not classifiable based on available information

Carcinogenicity Not classifiable based on available information

IARC Monographs. Overall Evaluation of Carcinogenicity: Not listed.
US. National Toxicology Program (NTP) Report on Carcinogens: Not listed.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not regulated.

Reproductive toxicity: Not classifiable based on available information

Specific target organ toxicity - single exposure: Not classifiable based on available information

Specific target organ toxicity - repeated exposure: Not classifiable based on available information

Aspiration hazard: Not classifiable based on available information.

SECTION XII- ECOLOGICAL INFORMATION

Ecotoxicity

Product: No data available.

Ingredient: Glycolic Acid

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 114.8 mg/l
 Exposure time: 96 h
 Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 99.6 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202
 Toxicity to algae/aquatic plants: ErC50 (Pseudokirchneriella subcapitata (green algae)): 31.2 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201
 NOEC (Pseudokirchneriella subcapitata (green algae)): 14.4 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

Ingredient: (2-Methoxymethylethoxy)propanol

Toxicity to fish: LC50 (Poecilia reticulata (guppy)): > 1,000 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203
 Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 1,919 mg/l
 Exposure time: 48 h
 Toxicity to algae/aquatic plants: ErC50 (Pseudokirchneriella subcapitata (green algae)): > 969 mg/l

Exposure time: 72 h
Method: OECD Test Guideline 201
NOEC (Pseudokirchneriella subcapitata (green algae)): 969 mg/l

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available

SECTION XIII – DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose of in accordance with all applicable federal, state, and local regulations.

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers.

SECTION XIV– TRANSPORT INFORMATION

DOT Not regulated as dangerous goods

SECTION XV– REGULATORY INFORMATION

US Federal Regulation: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

TSCA Section 12(b) Export Notification Listed (40 CFR 707):

Not Regulated

CERCLA Hazardous Substance List (40 CFR 302.4):

Not Listed

SARA 304 Emergency release notification:

Not Regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Skin irritation. Serious eye damage or irritation.

SARA 313 (TRI reporting)

Not regulated.

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

WARNING: Causes substantial but temporary eye injury. Do not get in eyes, on skin or clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling and

US State Regulations

California Prop. 65

WARNING: This product can expose you to chemicals including Formaldehyde, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

(2-Methoxymethylethoxy)propanol 34590-94-8

California Permissible Exposure Limits for Chemical Contaminants

(2-Methoxymethylethoxy)propanol 34590-94-8

SECTION XVI- OTHER INFORMATION**Hazard Rating System**

NFPA	Health	Fire	Reactivity
	2	0	0

NFPA Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

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THE INFORMATION ON THIS SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE AND IT IS THE BEST INFORMATION AVAILABLE TO NORCHEM CORPORATION. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONS FOR HANDLING A CHEMICAL BY A PERSON TRAINED IN CHEMICAL HANDLING. NORCHEM CORPORATION MAKES NO WARRANTY OF MERCHANT ABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO SUCH INFORMATION OF THE PRODUCT TO WHICH THIS SAFETY DATA SHEET RELATES. USERS AND HANDLERS OF THIS PRODUCT SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION PROVIDED HEREIN FOR THEIR OWN PURPOSES.