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SAFETY DATA SHEET

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name:

GERMA KILL

Product Description:

DISINFECTANT, DEODORANT & CLEANER

Other Means of Identification

Product #

121, 121A

Synonyms

None

Details of the Supplier of the Safety Data Sheet

Company Name

CHEMCO INDUSTRIES, INC.
5731 Manchester Avenue
St. Louis, MO 63110
www.chemcoindustries.com
314-647-1888
1-800-854-4236 (to Reorder)

Emergency Telephone Number

Emergency Telephone

INFOTRAC 1-800-535-5053

2. HAZARDS IDENTIFICATION

Physical Hazards:

Not classified

Health Hazards:

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 1

Environmental Hazards:

Hazardous to the aquatic environment,
acute hazard.

Category 1

Hazardous to the aquatic environment,
long-term hazard.

Category 2

OSHA Defined Hazards:

Not classified.

Label Element:



Not DOT regulated.

Signal Word: **Danger**

Hazard Statement:

Causes skin irritation. Cause serious eye damage. Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Prevention:

Wash thoroughly after handling. Avoid release to the environment. Wear
protective gloves. Wear eye/face protection.

Response:

Collect spillage. If on skin: Wash with plenty of water. 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. Specific treatment (see

this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage:

Store away from incompatible materials

Disposal:

Dispose of contents/container in accordance with local/regional/national/International regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	Common name and synonyms	CAS number	%
Alcohol ethoxylate		Proprietary	3 - < 5
_Alkyl (68% C12, 32% C14)		85409-23-0	1 - < 3
Dimethyl ethylbenzyl ammonium chloride (Alternate CAS 38956-79-6)			
_Alkyl dimethyl benzyl ammonium Chloride (C12-18)		68391-01-5	1 - < 3
Other components below reportable levels			90-100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. Call a physician if symptoms develop or persist.
Skin Contact:	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Eye Contact: if	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.
Most Important symptoms/effects, acute & delayed:	Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
Indication of immediate medical attention & special treatment needed:	If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.
General information:	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water fog. Foam. Dry chemical powder. Carbon Dioxide (CO2)
Specific hazards arising from the chemical:	During the fire, gases hazardous to health may be formed.
Protective Equipment and Precautions for Firefighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards:	No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers of spilled material unless wearing appropriate protective clothing. 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. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

Remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 14 of the SDS.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of the National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Environmental precautions:

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not get this material in contact with eyes. Avoid contact on skin. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities:

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.
PESTICIDE STORAGE: Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:

No exposure limits noted for ingredient(s).

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, Personal Protective equipment

Eye/Face protection: Wear safety glasses with side shields (or goggles) and a face shield.
Hand protection: Wear appropriate chemical resistant gloves.
Skin protection
Other: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Physical state: Liquid.
Form: Liquid.
Color: Green
Odor: Lemon/Lime
Odor Threshold: Not available.
pH 11.7000 (13% solids in aqueous medium)
Melting point/freeze point: 32°F (0°C)
Initial boiling point
And boiling range: 212° (100°C)
Flash Point: >201°F (>93.9°C)
Evaporation Rate: Slower than ethyl ether
Flammability (solid, gas): Not available.
Upper/lower flammability or explosive limits
Flammability limit-lower (%): Not available.
Flammability limit-upper (%): Not available.
Explosive limit-lower (%): Not available.
Explosive limit-upper (%): Not available.
Vapor pressure: Not available.
Vapor density: Heavier than air.
Relative density: Not available.
Solubility (ies)
Solubility (water) Complete
Auto-Ignition

temperature: Not available.
Decomposition temperature: Not available.
Viscosity: <100cP @ 25C
Other information:
Density: 8.66 lb/gal

10. STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: Avoid temperatures exceeding the flash point. Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials: Strong oxidizing agents. Anionic surfactants.
Hazardous decomposition products: Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Ingestion: May be harmful if swallowed.
Inhalation: Prolonged inhalation may be harmful.
Skin Contact: Causes skin irritation.
Eye Contact: Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics: Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
Germa Kill		
ACUTE		
<i>Dermal</i>		
LD50	Rabbit	>5000 mg/kg
<i>Oral</i>		
LD50	Rat	>5000 mg/kg

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/eye irritation: Causes serious eye damage.
Respiratory or skin sensitization:
Respiratory sensitization Not available.
Skin sensitization: This product is not expected to cause skin sensitization.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.10001-1050)
 Not listed.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity – single exposure: Not applicable.

Specific target organ toxicity – repeated exposure: Not applicable.

Aspiration hazard: Not likely, due to the form of the product.

12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Product	Species	Test Results
Sodium Carbonate (CAS 497-19-8)		
Aquatic		
Crustacea	EC50 Water flea (Ceriodaphniadubia)	156.6 – 298.9 mg/l, 48 hours
Fish	LC50 Bluegill (Lepomismacrochirus)	300 mg/l, 96 hours

Persistence & degradability: No data is available on the degradability of this product.

Bioaccumulative potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation)

13. DISPOSAL CONSIDERATIONS

Disposal Instructions: PESTICIDE DISPOSAL – Pesticide wastes are acutely hazardous. Improper disposal of excess Pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be Disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for Guidance.

(For products with household/residential use-sites only):

CONTAINER DISPOSAL – Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

(For products with industrial, institutional and commercial use sites:)

CONTAINER DISPOSAL – Nonrefillable containers. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying.

(For containers 5 gallons or less:)

Triple rinse as follows: Fill container ¼ full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

Local disposal regulations: Dispose in accordance with all applicable regulations.

- Hazardous waste code:** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
- Waste from residues /unused products:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

- General:** Note – Shipper/offerer is responsible for confirming appropriate proper shipping name, hazard Classification(s), packing group, marking, labeling, placarding, packaging, and other regulatory requirements applicable to packages offered for transport. These requirements may vary depending on the quantity of material, packaging, mode of transportation, and carrier.
- DOT:** Not regulated as dangerous goods.
- IATA:**
- UN number:** UN3082
- UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (QUATERNARY AMMONIUM CHLORIDE)
- Transport hazard class(es)**
- | | |
|--------------------------------------|---|
| Class: | 9 |
| Subsidiary risk: | - |
| Packing group: | III |
| Environmental hazards: | YES |
| Special precautions for user: | Read safety instructions, SDS and emergency procedures before handling. |

NOTE: DOT Classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill Of Lading with your shipment.

PG*: Packing Group

15. REGULATORY INFORMATION

- U.S. Federal Regulations:** This product is a U.S. EPA registered pesticide.
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910, 1200.

CERLA Hazardous Substance List (40 CFR 302.4)

Not listed.

U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

- Hazard categories: Immediate Hazard – Yes
Delayed Hazard – No
Fire Hazard – No
Pressure Hazard – No
Reactivity Hazard – No

SARA 302 Extremely hazardous substance: No

SARA 311/312 No

**Hazardous chemical:
SARA 313 (TRI reporting**

Chemical name	CAS number	%by wt.
1, 4-dioxane	123-91-1	<0.1
Acetaldehyde	75-07-0	<0.1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List

Not regulated.

Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SWDA)

Not regulated.

FIFRA Information 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:

Signal word: DANGER

Hazard statement: Corrosive.
Causes irreversible eye damage and skin burns.
Harmful if swallowed.
This pesticide is toxic to fish and aquatic invertebrates.

US state regulations

U.S. Massachusetts RTK – Substance List

Not regulated.

U.S. Rhode Island RTK

Not regulated.

U.S. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US – California proposition 65 – CRT: Listed date/Carcinogenic substance

1, 4-dioxane (CAS 123-91-1) Listed: January 1, 1988

Acetaldehyde (CAS 75-07-0) Listed: April 1, 1988

TSCA 8(a) IUR: Not determined.

United States Inventory (TSCA 8b): Not determined.

US State Right to Know Regulations

16. OTHER INFORMATION

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.



Disclaimer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company

assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendee or users assume all risks associated with the use of this material.