

Draft
ORNL WORK PLAN
 Operations, Maintenance and Services
 Work Plan Name / Rev: MWP060070 / 0



WORK SCOPE/DESCRIPTION	
Requester (Name/Badge/Division):	Dukes, Sergio / 00709118 / X195
Location of work (Bldg/Rm/Other):	7965D / /
Work Plan Title:	Building 7965D Mold Remediation

Description of Service/Work Needed:

This work package covers the hazards and controls to perform mold remediation activities at Building 7965D. A containment barrier will be setup for drywall removal in the CORA area near conference room, ventilation controls will be established and connected to containment barrier. As a part of the mold remediation Building 7965D will undergo a series of decon efforts that will require removal of drywall, ceiling tiles wet and dry), cleaning of walls and floor, and Pre/Post Air Quality Test. Other remediation activities will include cleaning of entire HVAC system throughout building and installation of self-adhesive film for floor protection following the completion of remediation activities. Servpro of Oak Ridge will perform these remediation activities.

Charge Number, if required:			
Work Plan Grade/Worktype:	3 / 0		
Author (Name/Badge):	Moore, Andrew / 03022839		
File Attachments:	Badge	Name	Attachment Desc
	00709118	Dukes, Sergio	Remediation Details
	00709118	Dukes, Sergio	Safety Data Sheet
			BATTELLE_TOM-MLD-2_CUSTOMER_TOTAL_AMOUNT_CAR.pdf
			175SDS 7965D.pdf

INSTRUCTIONS

Prerequisites/Precautions:
Directions:
Post Work Testing:
Closeout:

JOB HAZARD EVALUATION

HAZARDS	PERMITS / CONTROLS
Deenergized Hazardous Energy Sources (LTV)	<ul style="list-style-type: none"> ORNL-213, ORNL Lock/Tag/Verify Permit form OR ORNL-214, ORNL Lock/Tag/Verify Permit Continuation form OR ORNL-215, ORNL Lock/Tag/Verify Permit Temporary Suspension form Perform Simple Lock/Tag/Verify - Work meets all criteria for Simple LTV <ul style="list-style-type: none"> No potential for stored, residual energy or re-accumulation of energy after shutdown For a single hazardous energy source that can be: Identified, isolated, and locked Isolation of single energy source completely de-energizes & deactivates equipment/system Energy source is isolated and locked out during service/maintenance Single lockout device will achieve a locked-out condition. Lockout is under personal control for each staff performing work Work creates no hazard for other staff Equipment/system has no known history of unexpected activation or re-energization during maintenance or servicing Otherwise: Perform Complex Lock/Tag/Verify Authorized employee performs Simple LTV actions: <ul style="list-style-type: none"> Identify hazardous energy source Identify energy isolation device Isolate equipment from energy source Install a personal lock

	i Confirm isolation of hazardous energy source		
Electrical Equipment and Tools	i Listed by a nationally recognized testing laboratory (NRTL)		
Elevated Work	i Inspecting Ladders Guide [Step & Fixed]		
Manual Material Handling	i Exposure Assessment: Enter or attach justification to classify exposure scenario as low risk, qualitative exposure assessment (QEA), or requirement to conduct quantitative exposure monitoring (QEM)		
Obstructed Access/Egress	i Signs or Markings i Danger – Open Excavation i APWA Uniform Color Code		
DOCUMENTATION REVIEW AUTHORIZATION (Approvals are certification of hazards assessment)			
Reviewer/Approver Roles	Signature	Date	
Accountable Management (Service Provider, Line, Equipment Owner, or Facility Management)	Keener, Douglas		
Accountable Management (Service Provider, Line, Equipment Owner, or Facility Management)	Perry, Justin		
Accountable Management (Service Provider, Line, Equipment Owner, or Facility Management)	Weaver, Roger		
Author	Moore, Andrew		
IS/IH	Replegole, Chadwick		
Radiation Protection	Stayman, Chris		
Task Leader	Hinds, Steven Henry		
Work Package Concurrence			
Facility Manager			
Operations Supervisor			
Facility Manager Approval To Start Work			
Facility Manager			
Work Start Authorization			
Task Leader			
Work Acknowledged Complete			
Task Leader			
Worker Feedback:			
WORK DETAILS - Prerequisites/Precautions			
Hazards	Permits/Controls	Resources	Dur
1) - Ensure that tasks performed using this work package have an associated "ready to work" work order assigned and the task is included on or added to the facility POD before beginning work.			
		i Supervisor i Planner i Work Team Leader	1
WORK DETAILS - Directions			

Hazards	Permits/Controls	Resources	Dur
1) - Obtain work start authorization from REDC Facility Management, if remediation work is performed after hours/weekends, notify Facility Management and Building 7920 Operations personnel.			
		<input type="checkbox"/> Supervisor <input type="checkbox"/> Work Team Leader	1
2) - Conduct a pre-job brief using NNFD-FRM-058 "PRE-JOB-BRIEF" to identify scope of work, hazards, controls, etc. Include input from all personnel involved in performance of task and REDC facility personnel.			
		<input type="checkbox"/> Supervisor <input type="checkbox"/> Not Defined <input type="checkbox"/> Complex Facility Manager <input type="checkbox"/> Planner <input type="checkbox"/> Work Team Leader <input type="checkbox"/> Health & Safety Professional	1
3) - Servpro personnel will perform the following remediation activities in accordance with the contractual agreement:			
<p>Erect containment barrier with air-lock and decon chamber at Cora Area, area will extend from conference room entry towards south of trailer enough to satisfy affected areas. Ensure negative air machine is connected to containment barrier is properly vented to outside of trailer if possible.</p> <p>Perform pre-air quality check of trailer area prior to remediation activities.</p> <p>Ensure a simple Lock/Tag/Verify is in place at receptacles near affected drywall material prior to removal. Personnel will apply wet agent to affected drywall material at Cora Area located inside of containment barrier, bag wet drywall and perform cleanup of Cora Area containment barrier using HEPA vacuum and approved disinfectant agent.</p> <p>HVAC cleaning activities will include: Cleaning of building air handlers, evaporator coils, and interior ductwork. Detach and reset cold air return cover and Heat/Air Conditioning register.</p> <p>Personnel will remove affected ceiling tiles throughout Building 7965D.</p> <p>Perform cleanup of entire trailer with HEPA vacuum and approved disinfectant agent. Discard all affected waste items following completion all remediation activities.</p> <p>Install self-adhesive plastic film on trailer floor.</p> <p>Following the remediation activities and removal of used materials, RCT personnel will perform release surveys to accommodate the removal of used materials from ORNL.</p> <p>Perform post-air quality test following completion of work activities.</p>			
		<input type="checkbox"/> Radiological Control Technician <input type="checkbox"/> Supervisor <input type="checkbox"/> Not Defined <input type="checkbox"/> Electrician <input type="checkbox"/> Work Team Leader	3

WORK DETAILS - Post Work Testing

Hazards	Permits/Controls	Resources	Dur
1) - Perform Post Air Quality Test following completion of remediation activities. Document results on NNFD-FRM-067 "POST-MAINTENANCE TESTING".			
		<input type="checkbox"/> Supervisor <input type="checkbox"/> Not Defined <input type="checkbox"/> Work Team Leader <input type="checkbox"/> Health & Safety Professional	1

WORK DETAILS - Closeout

Hazards	Permits/Controls	Resources	Dur
1) - Ensure work area is clean and free of any hazards.			
		<input type="checkbox"/> Supervisor <input type="checkbox"/> Not Defined <input type="checkbox"/> Work Team Leader	1

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ORNL WORK PLAN

Operations, Maintenance and Services
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PRE-JOB SAFETY REVIEW GUIDE

ID: 60070

Scope of Work: Review work package/plan to ensure all participants understand the work activity.

Hazards: Review the hazards identified in Job Hazard Evaluation (JHE) / work plan (IOP).

- ε Since the work package / plan was written: 1) Have conditions changed? 2) Are there new hazards? Refer to Field Notes and Focus Areas.

Hazard Controls / Permits: Review:

- ε Written permits for the work activity.
- ε Precautions, step warnings, Hold Points ...
- ε Personal Protective Equipment (PPE)

- ε Work instructions for information - e.g., steps where hazards are introduced.
- ε ORNL subject area requirements - e.g., non-permit hazard controls.

Performing Work:

- ε Discuss group/individual responsibilities for safe & effective work.
- ε Follow work instructions & safety procedures.
- ε Availability/location of materials, tools, etc.
- ε Any previous experiences / lessons learned?
- ε Response if work cannot be performed as planned.
- ε What is the worst thing that could happen?
- ε Are there *Potential error traps* with the job? → →
- ε Take a minute before: work start & leaving work area.
- ε Work Hand-off / Turnover - workers & Task Leader

→ **Potential Error Traps:**

- ε Time pressures
- ε Distractive environment
- ε High workload
- ε First time evolution
- ε First day back
- ε Vague guidance
- ε Over confidence
- ε Imprecise communications
- ε Work stress

Abnormal Situation Response:

- | Stop Work: Observe an unsafe act, activity or condition that creates an imminent danger.
- | Emergency Response: Discuss egress paths or other responses if problems are encountered.

Field Notes and Focus Areas: (Use this area as a work space to record notes related to new hazards identified in the field or changed conditions. Record feedback in work package/plan information systems.)

By signing below, I am indicating that I have been briefed on the potential hazards associated with completing this job.

Signature / Badge	Date	Signature / Badge	Date



Servpro of Oak Ridge

P.O. Box 793
Ooltewah, TN 37363
865-690-9658
Tax ID: 85-1003904
office@servpro11229.com

Insured: UT-Battelle - POC Tom Comisky
Property: 1 Bethel Valley Rd Building 7965D
Oak Ridge, TN 37830

Home: (865) 341-2212

Estimator: Joel Cox

E-mail: jcox@servpro11229.com

Contractor:
Company: Servpro of Oak Ridge
Business: P.O. Box 793
Ooltewah, TN 37363

Business: (865) 483-3911
E-mail: office@servpro11229.com

Claim Number: **Policy Number:** **Type of Loss:** Other

Date Contacted: 6/19/2023 12:00 AM

Date Received: 6/19/2023 12:00 AM

Date of Loss: 6/19/2023 12:00 AM

Date Entered: 6/22/2023 11:42 AM

Date Inspected: 6/20/2023 12:00 AM

Price List: TNKN8X_01JUN23
Restoration/Service/Remodel
Estimate: BATTELLE_TOM-MLD-2

Thank you for choosing SERVPRO® of Oak Ridge, West Knoxville, North Knoxville, & Northwest Knoxville. We offer our customers world-class service, sensitivity to their needs, respect for their property, intelligent solutions to their disaster restoration problems and an enhanced customer experience. We are pleased that you have placed your trust in SERVPRO® of Oak Ridge, West Knoxville, & Northwest Knoxville to provide you with water mitigation and structural drying services. Our crews and all of our SERVPRO® staff members will strive to earn your continued trust and confidence every day.



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BATTELLE_TOM-MLD-2

BATTELLE_TOM-MLD-2

DESCRIPTION	QTY
1. Service call - during business hours	1.00 EA
2. Content Manipulation charge - per hour	8.00 HR
3. Floor protection - self-adhesive plastic film	500.00 SF
4. Haul debris - per pickup truck load - including dump fees	1.00 EA
HVAC	
5. Clean air handler - Large	2.00 EA
6. Clean evaporator coil	2.00 EA
7. Cold air return cover - Detach & reset	8.00 EA
8. Clean cold air return cover	8.00 EA
9. Heat/AC register - Mechanically attached - Detach & reset	84.00 EA
10. Clean register - heat / AC	84.00 EA
11. Clean ductwork - Interior (PER REGISTER)	84.00 EA
Testing	
12. Air Quality Testing - Pre & Post	1.00 EA

Main Level

DESCRIPTION	Height: 12'	QTY
SERVICES		
13. Containment Barrier/Airlock/Decon. Chamber	100.00 SF	
14. Peel & seal zipper	2.00 EA	
15. Ducting - lay-flat - Large	10.00 LF	
16. Remove Vinyl cove - 4" wrap	12.00 LF	
17. Tear out wet drywall, cleanup, bag - Cat 3	80.00 SF	
18. Tear out and bag wet insulation - Category 3 water	80.00 SF	
19. Remove wet ceiling tile & drywall and bag - Cat 3	8.00 SF	

General Conditions

DESCRIPTION	QTY
20. Cleaning Technician - per hour Hourly rate includes after hours, and all cleaning supplies	80.00 HR



Servpro of Oak Ridge

P.O. Box 793
Ooltewah, TN 37363
865-690-9658
Tax ID: 85-1003904
office@servpro11229.com

Grand Total	\$30,868.73
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Joel Cox

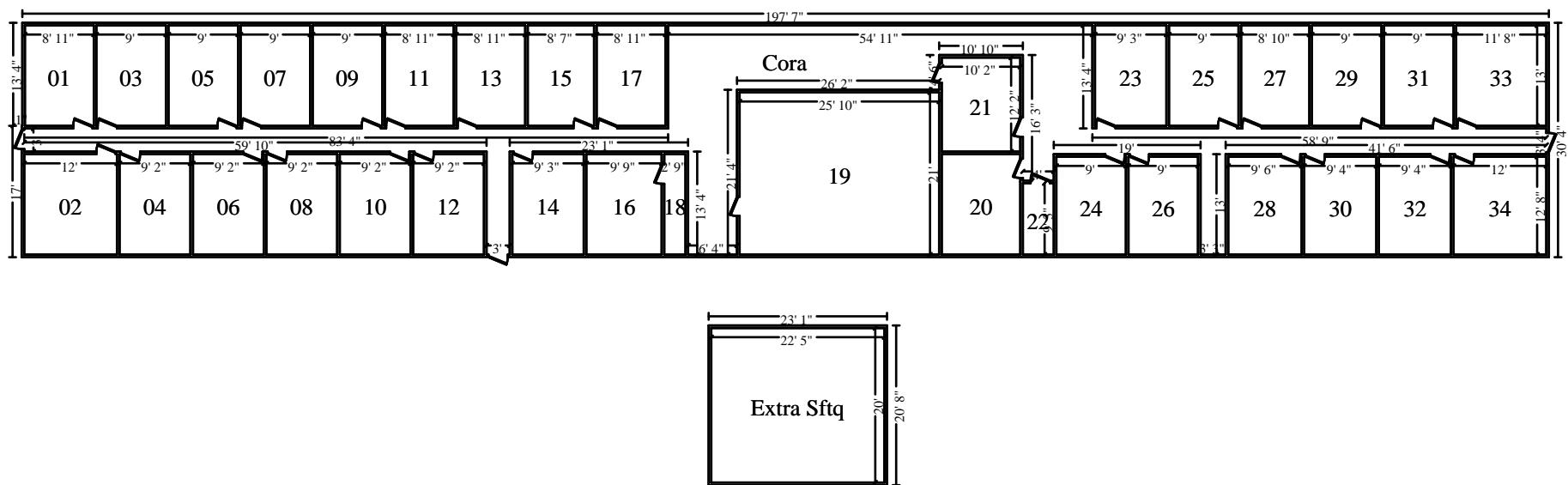
Grand Total Areas:

24,397.33 SF Walls	6,017.47 SF Ceiling	30,414.81 SF Walls and Ceiling
6,017.47 SF Floor	668.61 SY Flooring	1,982.50 LF Floor Perimeter
0.00 SF Long Wall	0.00 SF Short Wall	2,160.00 LF Ceil. Perimeter
6,017.47 Floor Area	6,471.83 Total Area	24,397.33 Interior Wall Area
6,665.50 Exterior Wall Area	543.50 Exterior Perimeter of Walls	
0.00 Surface Area	0.00 Number of Squares	0.00 Total Perimeter Length
0.00 Total Ridge Length	0.00 Total Hip Length	

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This is an estimated scope of services, along with anticipated costs for these services. While every effort is made to provide a thorough and accurate preliminary estimate, the scope of work and associated costs may change for a multitude of reasons. SERVPRO® of Oak Ridge, West Knoxville, & Northwest Knoxville reserves the right to modify each of these items up to the point that a fixed price contract is signed or the work is actually completed, if a fixed cost and scope is not required by the customer or client before work is commenced.

Main Level



Main Level

Vanquish Disinfectant

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SECTION 1: Product and company identification

Product name : Vanquish Disinfectant
Use of the substance/mixture : Disinfectant
Product code : 0175
Company : Total Solutions
P.O. Box 240014
Milwaukee, WI 53224 - USA
T (414) 354-6417
Emergency number : Chemtec: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Corr. 1B H314

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Causes severe skin burns and eye damage

Precautionary statements (GHS-US) :

Do not breathe spray

Wash thoroughly after handling

Wear eye protection, protective gloves

If swallowed: rinse mouth. Do NOT induce vomiting

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

If inhaled: Remove person to fresh air and keep comfortable for breathing

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a doctor

Specific treatment (see First aid measures on this label)

Wash contaminated clothing before reuse

Store locked up

Dispose of contents/container to comply with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

Full text of H-phrases: see section 16

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	(CAS-No.) 68424-85-1	1 - 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
Alcohols (c12-15 Ln. Saturated) Ethoxylate	(CAS-No.) 68131-39-5	1 - 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
tetrasodium ethylenediaminetetraacetate	(CAS-No.) 64-02-8	1 - 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
QUATERNIUM-24	(CAS-No.) 32426-11-2	0.5 - 1.5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314

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Name	Product identifier	%	GHS-US classification
didecyldimethylammonium chloride	(CAS-No.) 7173-51-5	0.5 - 1.5	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314
Dimethyldioctylammonium chloride	(CAS-No.) 5538-94-3	0.5 - 1.5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Take victim to a doctor if irritation persists.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Take victim to an ophthalmologist.
- First-aid measures after ingestion : Immediately call a poison center or doctor/physician. Rinse mouth. Do NOT induce vomiting. Drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : Causes severe skin burns and eye damage.
- Symptoms/effects after inhalation : Corrosive to the respiratory tract.
- Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.
- Symptoms/effects after eye contact : Causes serious eye irritation. Corrosion of the eye tissue. Permanent eye damage.
- Symptoms/effects after ingestion : Burns to the gastric/intestinal mucosa.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : All extinguishing media allowed.

5.2. Special hazards arising from the substance or mixture

- Reactivity : Upon combustion: CO and CO₂ are formed.

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water moderately and if possible collect or contain it. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Protective goggles. Face-shield.
- Emergency procedures : Keep upwind.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution.

6.3. Methods and material for containment and cleaning up

- For containment : Contain released substance, pump into suitable containers.
- Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container closed when not in use. Store in original container.
Incompatible products	: Strong acids.
Storage area	: Keep only in the original container. Store in a dry area. Store in a cool area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

Not applicable

QUATERNIUM-24 (32426-11-2)

Not applicable

didecyldimethylammonium chloride (7173-51-5)

Not applicable

Dimethyldioctylammonium chloride (5538-94-3)

Not applicable

Alcohols (c12-15 Ln. Saturated) Ethoxylate (68131-39-5)

Not applicable

tetrasodium ethylenediaminetetraacetate (64-02-8)

Not applicable

8.2. Exposure controls

Personal protective equipment	: Gloves. Safety glasses. Protective clothing. Use appropriate personal protective equipment when risk assessment indicates this is necessary.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Odor	: Mild odor
Odor threshold	: No data available
pH	: 12.4
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
VOC content	: < 1 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion: CO and CO₂ are formed.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

May be corrosive to metals. Strong acids. metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

LD50 oral rat	344 mg/kg
LD50 dermal rabbit	3340 mg/kg
ATE CLP (oral)	344.000 mg/kg body weight
ATE CLP (dermal)	3340.000 mg/kg body weight

didecyldimethylammonium chloride (7173-51-5)

LD50 oral rat	238 mg/kg Method: OECD Test Guideline 401
LD50 dermal rabbit	3342 mg/kg
ATE CLP (oral)	238.000 mg/kg body weight
ATE CLP (dermal)	3342.000 mg/kg body weight

Alcohols (c12-15 Ln. Saturated) Ethoxylate (68131-39-5)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

tetrasodium ethylenediaminetetraacetate (64-02-8)

LD50 oral rat	> 2000 mg/kg (Rat)
ATE CLP (oral)	500.000 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 12.4

Serious eye damage/irritation : Not classified

pH: 12.4

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after inhalation : Corrosive to the respiratory tract.

Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.

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Symptoms/effects after eye contact : Causes serious eye irritation. Corrosion of the eye tissue. Permanent eye damage.

Symptoms/effects after ingestion : Burns to the gastric/intestinal mucosa.

Likely routes of exposure : Skin and eye contact

SECTION 12: Ecological information

12.1. Toxicity

Alcohols (c12-15 Ln. Saturated) Ethoxylate (68131-39-5)	
LC50 fish 1	5 - 10 mg/l Fish
EC50 Daphnia 1	5 - 10 mg/l Daphnia
ErC50 (algae)	10 - 100 mg/l Algae

tetrasodium ethylenediaminetetraacetate (64-02-8)	
LC50 fish 1	121 mg/l (LC50; 96 h)
EC50 Daphnia 1	625 mg/l (EC50; 24 h)
Threshold limit algae 1	> 100 mg/l (EC0; 72 h)

12.2. Persistence and degradability

tetrasodium ethylenediaminetetraacetate (64-02-8)	
Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	< 0.002 g O ₂ /g substance
Chemical oxygen demand (COD)	0.54 - 0.58 g O ₂ /g substance

12.3. Bioaccumulative potential

tetrasodium ethylenediaminetetraacetate (64-02-8)	
Log Pow	-2.6
Bioaccumulative potential	Bioaccumulation: not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

Transport document description : UN1903 Disinfectants, liquid, corrosive n.o.s. (Quaternary Ammonium Chloride), 8, II
UN-No.(DOT) : UN1903
Proper Shipping Name (DOT) : Disinfectants, liquid, corrosive n.o.s.
Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : II - Medium Danger
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Symbols : G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102) : B2,IB2,T7,TP2
DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 30 L
DOT Vessel Stowage Location : B

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Additional information

Emergency Response Guide (ERG) Number	: 153
Other information	: No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling 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:

DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses), protective (rubber or chemical resistant) gloves and protective clothing. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

California Proposition 65 - This product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity

SECTION 16: Other information

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

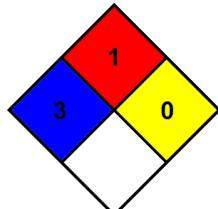
Full text of H-phrases:

H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Prepared by: Technical Department

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