

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: hx₂
Product Form: Liquid, liquid soaked towelettes
Other means of identification: Items 60017, 60019, 61164, 61164R
Product Use: Intermediate level germicidal cleaner

Supplier Details: maxill inc.
 80 Elm St.
 St. Thomas, ON
 Canada, N5R 6C8

Emergency Contact: maxill inc. 519-631-7370, CANUTEC: 613.996.6666, ChemTel: 1-800-255-3924

2. HAZARDS IDENTIFICATION

GHS Classification for mixture: Serious eye damage/eye irritation – Category 2B
GHS Label Elements: Not applicable
Signal Word: WARNING
Hazard Statements: Causes eye irritation
Precautionary Statements (Non-GHS): Wash hands thoroughly after handling.
Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage: Keep out of reach of children. Store away from incompatible materials.
Disposal: Dispose of contents/container in accordance with local regulations
Hazards not otherwise classified: None known.
WHMIS 2015 defined hazards: Not classified.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Mixture

Name	Product Identifier	% (w/w)
Alkyl dimethyl benzyl ammonium Chloride (C12-18)	(CAS)68391-01-5	0.1 – 1 %
Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chloride	(CAS)85409-23-0	0.1 – 1 %
Butyl Carbitol	(CAS)112-34-5	5 – 10 %
Tetrasodium EDTA	(CAS)64-02-8	1 – 5 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Description of First Aid Measures

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Skin Contact: Wash off with soap and water. Get medical attention if irritation develops and persists

Eye Contact: Immediately flush with clean, low-pressure water for several minutes. Hold eyelids open to ensure adequate flushing. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Exposed individuals may experience eye tearing, redness, and discomfort.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician: If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

See toxicological information (Section 11)

5. FIRE FIGHTING MEASURES

Extinguishing Media

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

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Special Hazards Arising from the Substance or Mixture

Heating or fire can release toxic gas

Further Information: Move containers from fire area if you can do so without risk

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment as required.

Environmental precautions: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

Methods and materials for containment and cleaning up

Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Precautions for Safe Handling

General Procedures: Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Handling: KEEP OUT OF REACH OF CHILDREN

Storage: DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE: Store in a dry place no lower in temperature

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than 0°C or higher than 50°C. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Controls

Occupational exposure limits

Ingredient name	Value Type (form of exposure)	Control Parameters/ Permissible concentration	Basis
Butyl Carbitol	TWA	10 ppm	Inhalable fraction and vapour

Biological occupational exposure limits

None noted for the ingredient(s).

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Hand protection:

Wear protective gloves.

Eye protection:

Wear safety glasses with side shields (or goggles).

Skin and body protection:

Wear suitable protective clothing.

Hygiene measures:

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 (<i>physical state</i>)	Liquid.
Colour	Clear, colourless
Odor	Neutral
Initial boiling point	> 100°C
Freezing point	< 0°C
Flash point	> 93.9°C (Pensky-Martens Closed Cup)
Upper / Lower flammability or explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.013
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Solubility(ies)	Soluble
pH	10.5 – 12.5

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.

Conditions to Avoid:

Avoid temperatures exceeding the flash point. Contact with incompatible materials

Incompatible Materials:

Strong acids, alkalis and oxidizing agents.

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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 Toxicological Effects - Component

Acute Toxicity:

Ingredient name	LD ₅₀ Oral	Species	LD ₅₀ Dermal	Species
Alkyl dimethyl benzyl ammonium Chloride (C12-18)	> 750 mg/kg	Rat	Not available	-
Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chloride	> 750 mg/kg	Rat	Not available	-
Butyl Carbitol	5660 mg/kg	Rat	2700 mg/kg	Rabbit
Tetrasodium EDTA	1658 mg/kg	Rat	> 5000 mg/kg	Rabbit

Information on toxicological Effects – Product

No available data for this section

Information on the likely routes of exposure:

Ingestion:	Expected to be a low ingestion hazard
Inhalation:	Prolonged inhalation may be harmful
Skin contact:	Causes mild skin irritation
Eye contact:	Causes eye irritation

Symptoms related to the physical, chemical and toxicological characteristics

Exposed individuals may experience eye tearing, redness, and discomfort

Irritation/Corrosion Information for Product

Skin corrosion/irritation:	Causes mild skin irritation
Serious eye damage/eye irritation:	Causes eye irritation
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.

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

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 applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity: See below

Ecotoxicity information for Components:

Ingredient name	LC ₅₀ Results	Time	Species
Tetrasodium EDTA	472 - 500 mg/L	96 h	Bluegill (<i>Lepomis macrochirus</i>)

Persistence and degradability: No available data

Bio-accumulative potential: No available data

Mobility in soil: No available data

Other adverse effects: No available data

13. DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

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: 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: 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.

14. TRANSPORT INFORMATION

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	No.	No.	No.	No.	No.	No.

Special precautions for user: none

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations for Product

Canadian federal regulations: This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Exempt – Registered disinfectant

WHMIS 2015 Exemptions Exempt

Safety, Health and Environmental Regulations for Component

TSCA: All chemicals used in this product are either listed on or exempt from the TSCA Inventory.

SARA 302, 313: No chemicals used in this product are reportable under SARA 302, 313.

**16. OTHER INFORMATION:
INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS**

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