Printing date 11.09.2014 Revision: 11.09.2014

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· 1.1 Product identifier

· Trade name: Multicide v.2

· Article number: 100381

· 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

- · Application of the substance / the mixture Disinfectant
- · 1.3 Details of the supplier of the Safety Data Sheet
- · Manufacturer/Supplier:

Theochem Laboratories 7373 Rowlett Park Drive Tampa, FL 33610

Phone: 813-237-6463

- · Further information obtainable from: Product Safety Department
- · 1.4 Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.



Skin Corr. 1B H314 Causes severe skin burns and eye damage.



environment

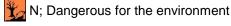
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



C; Corrosive

R34: Causes burns.



Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

(Contd. on page 2)



Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

(Contd. of page 1)

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS).





GHS05 GHS09

· Signal word Danger

· Hazard-determining components of labelling:

Alkyl (C12,C14,C16) Dimethyl Benzyl Ammonium Chloride

· Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves / eye protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

· Hazard description:

· WHMIS-symbols:

D2B - Toxic material causing other toxic effects

E - Corrosive material



(Contd. on page 3)

Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

· NFPA ratings (scale 0 - 4)

(Contd. of page 2)



Health = 2 Fire = 1 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



· HMIS Long Term Health Hazard Substances

None of the ingredients is listed.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 68424-85-1 EINECS: 270-325-2	Alkyl (C12,C14,C16) Dimethyl Benzyl Ammonium Chloride T Carc. Cat. 1 R45; C R34; Xn R22; N R50 R10 Flam. Liq. 3, H226 Carc. 1B, H350i Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ↑ Acute Tox. 4, H302	2,5-10%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol Xi R36;	≤ 2,5%

· Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

(Contd. on page 4)

Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

(Contd. of page 3)

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

Nausea

Cramp

Dizziness

Breathing difficulty

Coughing

· Hazards

Danger of gastric perforation.

Danger of severe eye injury.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: None.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information No further relevant information available.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

· 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Prevent from spreading (e.g. by damming-in or oil barriers).

(Contd. on page 5)

Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

· 6.3 Methods and material for containment and cleaning up:

(Contd. of page 4)

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

Store away from oxidizing agents.

- · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:		
67-63-0 propan-2-ol		
PEL (USA)	Long-term value: 980 mg/m³, 400 ppm	
REL (USA)	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm	
TLV (USA)	Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI	
EL (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm	
EV (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm	

· Additional information: The lists valid during the making were used as basis.

(Contd. on page 6)

Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

(Contd. of page 5)

- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

For spills, respiratory protection may be advisable.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Rubber gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eve protection:

Contact lenses should not be worn.



Safety glasses

Goggles recommended during refilling

· Body protection: Alkaline resistant protective clothing

SECTION 9: Physical and chemical properties

- \cdot 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:
Colour:
Odour:
Odour threshold:

PH-value at 20 °C:

Liquid
Red
Odourless
Not determined.

· Change in condition

Melting point/Melting range: Not Determined.

(Contd. on page 7)

(Contd. of page 6)

Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

Boiling point/Boiling range: Undetermined.

• Flash point: > 93,3 °C (> 200 °F)

Flammability (solid, gaseous): Not applicable.
 Auto/Self-ignition temperature: 470 °C (878 °F)
 Decomposition temperature: Not determined.

· **Self-igniting:** Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined. Upper: Not determined.

· Vapour pressure at 20 °C: 23 hPa (17 mm Hg - Estimated)

Density at 20 °C: 0,99 g/cm³
 Relative density Not determined.
 Vapour density at 20 °C 8,33 g/cm³
 Evaporation rate Not determined.

· Solubility in / Miscibility with

water: Fully miscible.Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content:

Organic solvents: < 10 %

• 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions

Reacts with strong acids and oxidizing agents.

Reacts with acids releasing chlorine.

- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

Possible in traces.

Carbon monoxide and carbon dioxide

Poisonous gases/vapours

(Contd. on page 8)

Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

Halogenated hydrocarbons

(Contd. of page 7)

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: Toxic for aquatic organisms
- 12.2 Persistence and degradability The product is not easily, but potentially biodegradable.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark:

Toxic for fish

Very toxic for algae

- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

(Contd. on page 9)

Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

(Contd. of page 8)

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be disposed of with household garbage with prior chemical-physical or biological treatment following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- · 14.1 UN-Number
- · DOT, ADR, IMDG, IATA

UN1760

· 14.2 UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

DOT Corrosive liquids, n.o.s. (Alkyl Dimethyl Benzyl

Ammonium Chloride), MARINE POLLUTANT

• ADR 1760 CORROSIVE LIQUID, N.O.S. (Alkyl Dimethyl

Benzyl Ammonium Chloride), ENVIRONMENTALLY

HAZARDOUS

CORROSIVE LIQUID, N.O.S. (Alkyl Dimethyl Benzyl

Ammonium Chloride), MARINE POLLUTANT

CORROSIVE LIQUID, N.O.S. (Alkyl Dimethyl Benzyl

Ammonium Chloride)

- · 14.3 Transport hazard class(es)
- · DOT

· IMDG

·IATA





· Class 8 Corrosive substances.

· Label

· ADR





· Class 8 (C9) Corrosive substances.

(Contd. on page 10)

Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

(Contd. of page 9) · Label · IMDG · Class 8 Corrosive substances. · Label · IATA · Class 8 Corrosive substances. · Label · 14.4 Packing group · DOT, ADR, IMDG, IATA Ш · 14.5 Environmental hazards: · Marine pollutant: Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Corrosive substances. · Danger code (Kemler): · EMS Number: F-A,S-B · Segregation groups Alkalis · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 5L · Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · Transport category · Tunnel restriction code · IMDG 5L · Limited quantities (LQ) · Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · DOT · Remarks: Product is additionally classified as a MARINE POLLUTANT based on MARPOL and DOT rules. Labeling as a MARINE POLLUTANT is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) (Contd. on page 11)

Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

(Contd. of page 10)

for a liquid and a maximum net mass greater than

400kg (882 pounds)

• UN "Model Regulation": UN1760, CORROSIVE LIQUID, N.O.S. (Alkyl Dimethyl

Benzyl Ammonium Chloride), 8, III, MARINE

POLLUTANT

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- ·SARA
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

67-63-0 propan-2-ol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65 (California):
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic Categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

67-63-0 propan-2-ol

3

· TLV (Threshold Limit Value established by ACGIH)

67-63-0 propan-2-ol

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · Canada
- · Canadian Domestic Substances List (DSL)

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

(Contd. on page 12)

Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

(Contd. of page 11)

· Canadian Ingredient Disclosure list (limit 1%)

67-63-0 propan-2-ol

· Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H350i May cause cancer by inhalation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R10 Flammable.

R11 Highly flammable.

R22 Harmful if swallowed.

R34 Causes burns.

R36 Irritating to eyes.

R45 May cause cancer.

R50 Very toxic to aquatic organisms.

R67 Vapours may cause drowsiness and dizziness.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

(Contd. on page 13)

Printing date 11.09.2014 Revision: 11.09.2014

Trade name: Multicide v.2

(Contd. of page 12)

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Carc. 1B: Carcinogenicity, Hazard Category 1B

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Sources

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