**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : **DISINFECTANT SANITIZER**

Other means of identification : not applicable

Recommended use : Liquid Disinfectant and Sanitizer

Restrictions on use : For industrial and professional use

Company : Specialty Chemicals & Systems, Inc.

 Denver, CO 80216

Emergency telephone : (800) 535-5053

Poison control center : 1-800-222-1222

Issuing date : 3/5/2015

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation Category 1B

Corrosive to metals : Category 1

Aquatic toxicity(Acute) Category 2

Serious eye damage : Category 1

**GHS Label element**

Hazard pictograms :

 

Signal Word : Danger

Hazard Statements : Harmful if swallowed.

 Causes severe skin burns and eye damage. May be corrosive to metals Toxic to aquatic life.

Precautionary Statements : **Prevention :**

 Wash skin thoroughly after handling. Do not eat, drink or smoke when

 using this product. Wear protective gloves/ protective clothing/ eye

 protection/ face protection.

 **Response :**

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you

 Feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated

 clothing. Rinse skin with water/ shower. IF INHALED: Remove victim

 to fresh air and keep at rest in a position 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 POISON CENTER or doctor/ physician. Wash

 contaminated clothing before reuse.

 **Storage :**

Store locked up.

 **Disposal :**

 **See section 13 for waste disposal information**.

**Other hazards :** None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture : Mixture

**Chemical Name CAS-No. Concentration (%)**

Alkyl (60%C14,30%C16,5%C12,5%C18) 68391-01-5 5.0

Dimethyl benzyl ammonium chloride

Alkyl(68% C12,32%C14) 68956-79-6 5.0

dimethyl(ethylbenzyl) ammonium chloride

ethanol 64-17-5 1 - 5

**SECTION 4. FIRST AID MEASURES**

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at

 least 15 minutes. Remove contact lenses, if present and easy to do.

 Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use

a mild soap if available. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

 anything by mouth to an unconscious person. Get medical attention if

 symptoms occur.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if

 symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal

 protective equipment.

Notes to physician : Treat symptomatically.

Most important symptoms : See section 11 for more detailed information on health effects and

and effects, both acute and symptoms.

delayed

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

 circumstances and the surrounding environment.

Unsuitable extinguishing : None known.

media

Specific hazards during fire : Not flammable or combustible.

fighting

Hazardous combustion : Decomposition products may include the following materials:

 Carbon oxides

 Nitrogen oxides (NOx)

 Sulfur oxides

 Oxides of phosphorous

Specific protective equipment : Use personal protective equipment.

for fire-fighters

Specific extinguishing : Fire residues and contaminated fire extinguishing water must be

methods disposed of in accordance with local regulations. In the event of fire

 and/or explosion do not breathe fumes.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, : Ensure adequate ventilation. Keep people away from and upwind of

protective equipment and spill/leak. Avoid inhalation, ingestion and contact with skin and eyes.

emergency procedures When workers are facing concentrations above the exposure limit they

 must use appropriate certified respirators. Ensure clean-up is

 conducted by trained personnel only. Refer to protective measures

 listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for : Stop leak if safe to do so. Contain spillage, and then collect with non-

containment and cleaning up combustible absorbent material, (e.g. sand, earth, diatomaceous

 earth, vermiculite) and place in container for disposal according to

 local/ national regulations (see section 13). Flush away traces with

 water. For large spills, dike spilled material or otherwise contain

 material to ensure runoff does not reach a waterway.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not

breathe dust/ fume/ gas/ mist/ vapor/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage : Do not store near acids. Keep out of reach of children. Store in

 suitable labeled containers.

Storage temperatures : 0 ̊C to 50 ̊C

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ingredients with workplace control parameters**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ingredients | CAS-No. | Form ofexposure | Permissibleconcentration | Basis |
| ethanol | 64-17-5 | TWA | 1,000 ppm | ACGIH |
|  |  | TWA | 1,000 ppm1,900 mg/m3 | NIOSH REL |
|  |  | TWA | 1,000 ppm1,900 mg/m3 | OSHA Z1 |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

 below occupational exposure standards.

**Personal protective equipment**

Eye protection : Safety goggles

 Face-shield

Hand protection : Wear the following personal protective equipment:

 Standard glove type.

 Gloves should be discarded and replaced if there is any indication of

 degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves,

 safety goggles and protective clothing.

Respiratory protection : When workers are facing concentrations above the exposure limit they

 must use appropriate certified respirators.

Hygiene measures: Wash hands, forearms and face after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

 Remove and wash contaminated clothing before re-use.

 Wash face, hands and any exposed skin thoroughly after handling.

 Provide suitable facilities for quick drenching or flushing of the eyes

 and body in case of contact or splash hazard.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : clear, light red

Odor : alcohol-like

pH : 7.0 100 %

Flash point : 101 ̊C

Odor threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and : No data available

boiling range

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : 0.99 - 1.014

Water solubility : complete

Solubility in other solvents : No data available

Partition coefficient: n- : No data available

octanol/water

Autoignition temperature : No data available

Thermal decomposition : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Molecular weight : No data available

VOC : No data available

**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under normal conditions.

Possibility of hazardous : No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : Acids

Hazardous decomposition : Decomposition products may include the following materials:

products Carbon oxides

 Nitrogen oxides (NOx)

 Sulfur oxides

 Oxides of phosphorus

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation, Eye contact, Skin contact

exposure

**Potential Health Effects**

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic exposure : Health injuries are not known or expected under normal use.

**Experience with human exposure**

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory Irritation, Cough

**Toxicity**

Acute oral toxicity : Acute toxicity estimate : > 1,316 mg/kg

Acute inhalation toxicity : No data available

Acute dermal toxicity : Acute toxicity estimate : > 1,000mg/kg

Skin corrosion/irritation : No data available

Serious eye damage/eye : No data available

irritation

Respiratory or skin : No data available

sensitization

Carcinogenicity

IARC No component of this product present at levels greater than or equal

 to 0.1% is identified as probable, possible or confirmed human

 carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or equal to

 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects : No data available

Germ cell mutagenicity : No data available

Teratogenicity : No data available

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration toxicity : No data available

**Ingredients**

Acute inhalation toxicity : Alkyl (60%C14,30%C16,5%C12,5%C18)

 Dimethyl benzyl ammonium chloride

 4 h LC50 rat: 0.07 mg/l

 Alkyl(68% C12,32%C14)

 dimethyl(ethylbenzyl) ammonium chloride

 4 h LC50 rat: 0.07 mg/l

 ethanol

 4 h LC50 rat: 117 mg/l

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Environmental Effects : This product has no known ecotoxicological effects.

**Product**

Toxicity to fish : No data available

Toxicity to daphnia and other : No data available

aquatic invertebrates

Toxicity to algae : No data available

**Ingredients**

Toxicity to fish : Alkyl (60%C14,30%C16,5%C12,5%C18)

 Dimethyl benzyl ammonium chloride

 96 h LC50 Fish: 1 mg/l

 Alkyl(68% C12,32%C14)

 dimethyl(ethylbenzyl) ammonium chloride

 96 h LC50 Fish: 1 mg/l

 ethanol

 96 h LC50 Fish: 11,000 mg/l

**Ingredients**

 Toxicity to daphnia and other

no data available

 Persistence and degradability

no data available

 Bioaccumulative potential

no data available

 Mobility in soil

no data available

**Other adverse effects**

no data available

**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : The product should not be allowed to enter drains, water courses or

 the soil. Where possible recycling is preferred for disposal or

 incineration. If recycling is not practicable, dispose of in compliance

 with local regulations. Dispose of wastes in an approved waste

 disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to

 an approved waste handling site for recycling or disposal. Do not re-

 use empty containers.

RCRA – Recourse : D002 (Corrosive)

Conservation and Recovery

Authorization Act Hazardous

waste

**SECTION 14. TRANSPORT INFORMATION**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are

In compliance with the selected mode of transport.

**Land transport (DOT)**

Not regulated

**Sea transport (IMDG/IMO)**

Not regulated

**SECTION 15. REGULATORY INFORMATION**

**EPCRA - Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting

 requirements of SARA Title lll, Section 302.

**SARA 313** : SARA 313: This material does not contain any chemical components

 with known CAS numbers that exceed the threshold (De Minimus)

 reporting levels established by SARA Title lll, Section 313.

**California Prop 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or

Any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

**1907/2006 (EU) :**

not determined

**Switzerland. New notified substances and declared preparations :**

not determined

**United States TSCA Inventory** :

On TSCA Inventory

**Canadian Domestic Substances List (DSL)** :

All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS)** :

not determined

**New Zealand. Inventory of Chemical Substances** :

On the inventory, or in compliance with the inventory

**Japan. ENCS - Existing and New Chemical Substances Inventory** :

not determined

**Japan. ISHL - Inventory of Chemical Substances (METI)** :

not determined

**Korea. Korean Existing Chemicals Inventory (KECI)** :

not determined

**Philippines Inventory of Chemicals and Chemical Substances (PICCS)** :

not determined

**China. Inventory of Existing Chemical Substances in China (IECSC)** :

not determined

**SECTION 16. OTHER INFORMATION**

**Hazardous Material :**

**Information System (U.S.A)**

 **Health 3**

 **Flammability**  **0**

 **Physical Hazards** **0**

**NFPA:**

 **Flammability**

**3**

**Instability/**

**Reactivity**

**Health**

**0**

**0**

 **Special Hazard**

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Prepared by : Specialty Chemicals & Systems

Notice to reader

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge., information and belief at the date of its publication. The information given is designed only as a guidance for safe handling,

Use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality

Specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.