SDS Number SA201 Revision Date 02/10/2022

Product identifier Solution A2

Other means of identification Not available
Recommended use Sanitizer
Recommended restrictions None known.
Manufacturer HOW 2 Platfol

HOW 2 Platforms 5451 203<sup>rd</sup> Street W Farmington, MN 55024 Phone 952 237 5480

Emergency Phone: 952 237 5480

#### 2. Hazards Identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 1B
Serious eye damage/eye irritation Category 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements Signal word



Danger

Hazard statement Harmful if swallowed. Causes severe skin burns and eye damage. Toxic if inhaled. May cause

damage to organs.

**Precautionary statement** 

Prevention

Do not breathe mist or vapor. Do not eat, drink or smoke when using this product. Wash

thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face

protection.

**Response** 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. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If swallowed: Call a poison center/doctor if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep

comfortable for breathing.

Storage Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** Not applicable.

### 3. Composition/Information on Ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	%
Benzyl-C12-18-alkyldimethyl ammonium chlorides		68391-01-5	7 - 13
Quaternary ammonium compounds,		85409-23-0	7 - 13

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### **HOW 2 Platforms**

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**Composition comments** 

The remaining components are trade secret

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

4. First Aid Measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Wash off with soap and water. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

Ingestion

symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to

Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately

(show the label where possible). Wear rubber gloves and chemical splash goggles.

5. Fire Fighting Measures

Do not use water jet as an extinguisher, as this will spread the fire.

Dry chemical. Foam. Carbon dioxide. Water fog. Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

During fire, gases hazardous to health may be formed.

General fire hazards

**Hazardous combustion** 

products

May include and are not limited to: Hydrogen chloride. Oxides of carbon. Oxides of nitrogen. Ammonia.

Explosion data

Sensitivity to mechanical

impact

Not available.

Sensitivity to static

discharge

Not available.

#### 6. Accidental Release Measures

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Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Do not breathe mist or vapor. Do not touch damaged containers or 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 Stop the flow of material, if this is without risk.

Large Spills: 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. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. 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.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and Storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Do not get this material on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities Store locked up. Keep container tightly closed. 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, s uch as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection Hand protection

Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Other

Not applicable.

before eating.

General hygiene considerations

When using, do not eat, drink or smoke. 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. Wash hands after handling and

#### 9. Physical and Chemical Properties

**Appearance** Clear Physical state Liquid. **Form** Liquid. Color Amber

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Odor Characteristic **Odor threshold** Not available.

7.8

Melting point/freezing point Not available. Initial boiling point and boiling 212 °F (100 °C)

range

Not available. Pour point

Specific gravity 8.26

Partition coefficient (n-

octanol/water)

Not available.

Flash point > 201.0 °F (> 93.9 °C) Pensky-Martens Closed Cup

**Evaporation rate** < 1 (ethyl ether=1) Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits. Not available.

Flammability limit - lower

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density < 1 (air=1) Not available. Relative density

Solubility(ies) Not available.

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Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and Reactivity

Reactivity None known.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Chemical stability** Material is stable under normal conditions.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Reducing agents.

**Hazardous decomposition** 

May include and are not limited to: Hydrogen chloride. Oxides of carbon. Oxides of nitrogen.

**products** Ammonia.

11. Toxicological Information

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Information on likely routes of exposure

IngestionCauses digestive tract burns. Harmful if swallowed.InhalationMay cause irritation to the respiratory system.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

Symptoms related to the Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may physical,

**chemical and** include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

toxicological characteristics blindness could result.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components Species Test Results

Benzyl-C12-18-alkyldimethyl ammonium chlorides (CAS 68391-01-5)

Acute

Dermal

LD50 Rat

2000 mg/kg

1420 mg/kg

Inhalation

LC50 Not available

Oral

LD50 Mouse

150 mg/kg

Rat 240 mg/kg

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (CAS 85409-23-0)

Acute

Dermal

LD50 Not available

Inhalation LC50

Not available

Oral

1050 300 - 2000

Rat mg/kg

Skin corrosion/irritation Causes severe skin burns and eye

damage.

**Exposure minutes** Not available. **Erythema value** Not available.

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Oedema value Not available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening

value

Not available.

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

**Respiratory sensitization** Not classified.

**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.

**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.

**Reproductive toxicity** This product is not expected to cause reproductive or

developmental effects.

Teratogenicity
Specific target organ toxicity

single exposure

Not classified. Not classified.

Specific target organ toxicity

repeated exposure

**Synergistic Products** 

Not classified.

Aspiration hazard Not available.

Chronic effects Not classified.

Further information Not available.

Name of Toxicologically Not available.

12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However,

this does not exclude the possibility that large or frequent spills can have

a harmful or damaging effect on the environment.

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

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion,

photochemical ozone creation potential, endocrine disruption, global

warming potential) are expected from this component.

13. Disposal Considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste

disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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.

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Waste from residues / unused Dispose of in accordance with local regulations. Empty containers or

products

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

### **U.S.** Department of Transportation (DOT)

**Basic shipping requirements:** 

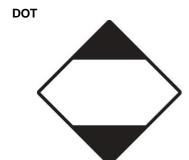
Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN1760

Proper shipping name CORROSIVE LIQUID, N.O.S. (Benzyl-C12-18-alkyldimethyl ammonium chlorides)

Hazard class 8
Packing group III
Special provisions 16



#### 15. Regulatory information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the SDS contains all the information required by the Controlled

Products Regulations.

WHMIS status Controlled

WHMIS classification Class E - Corrosive Material

WHMIS labeling



Hazard categories Immediate Hazard - Yes US federal regulations This product is a "Hazardous Chemical" as

Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

SARA 302 Extremely No Not regulated.

Reactivity Hazard - No

hazardous substance CERCLA Hazardous Substance List (40 CFR 302.4)

SARA 311/312 Hazardous No Not listed.

chemical Clean Air Act (CAA) Section 112(r) Accidental Release Prevention

UN number UN1760 (40 CFR 68.130)
Proper shipping name Corrosive liquids, n.o.s. (Benzyl-C12-18-alkyldimethyl ammonium chlorides) Not regulated.

Hazard class 8
Packing group III

Special provisions IB3, T7, TP1, TP28

Packaging exceptions154Packaging non bulk203Packaging bulk241

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

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug Administration (FDA) Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

**US - Texas Effects Screening Levels: Listed substance** 

Benzyl-C12-18-alkyldimethyl ammonium chlorides

Listed.

(CAS 68391-01-5)

**US. Massachusetts RTK - Substance List** 

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

**US. Rhode Island RTK** 

Not regulated.

Inventory status

Country(s) or region Inventory name

On inventory (yes/no)\*

Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

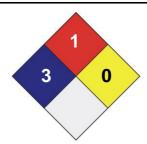
Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information







Issue date

February 10,2022

Prepared by HOW 2 Platforms Phone 952 237 5480