



Safety Data Sheet

Section 1 – Identification

Product Identifier: Spacide

Other means of Identification: Disinfecting solution

Name and Address of Responsible Parties:

King Research, Inc

7025 W. Marcia Rd.

Milwaukee, WI 53223

Information Telephone #: 1-800-222-8160

24 Hr. Emergency Telephone Number: INFOTRAC- 1-800-535-5053

International 24 Hr. Emergency Telephone Number: INFOTRAC – 1-352-323-3500

Contract # - 106253

Section 2 – Hazards Identification

Classification of the Chemical:

Clear blue liquid with disinfectant odor.

This material is classified as hazardous under OSHA regulations (29 CFR 1910.1200) (Hazcom 2012).

Hazardous classification:

Corrosive to metals– Category 1

Skin irritation – Category 1C

Eye irritation – Category 1

Acute Toxicity (oral) – Category 3

Label elements:

Signal Word: Danger

Hazard Statements: May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes Serious Eye damage.

Toxic if swallowed

Precautionary Statements: Keep only in original container.
Absorb spillage to prevent material damage.

Section 2 – Hazards Identification (continued)

Store in corrosive resistant container with a resistant inner liner.

Keep container tightly closed.

Store in a well ventilated and locked place. Keep cool.

Wash hands thoroughly after handling.

If on Skin: Wash with plenty of soap and water.

If skin irritation occurs get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Wear protective gloves.

Wear eye protection such as goggles or safety glasses with side shields.

If in eyes: Rinse cautiously with water for 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Do not eat, drink or smoke when using this product.

If swallowed: Immediately call a poison center/physician, Rinse mouth. DO NOT induce vomiting.

Dispose of contents/container in accordance with local, State, federal or international regulations.

Hazard Pictogram(s)



Other Hazards not otherwise classified:

This product contains 1.15% ingredients of an unknown acute toxicity. See section 11 for more information.

Section 3 – Composition/Information on Ingredients

Chemical Name, Common Name	CAS #	Concentration wt/wt(*)
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	2-6
Octyl decyl dimethyl ammonium chloride	32426-11-2	1-5
Didecyl dimethyl ammonium chloride	7173-51-5	0.5-2
Dioctyldimethylammonium chloride	5538-94-3	0.5-2
Alcohol, C12-C15, Ethoxylated	68131-39-5	0.5-5
Ethanol	32426-11-2	0.5-2

- **Note: The exact concentrations of the chemical(s) above are being withheld as a trade secret.**

Section 4 – First-Aid Measures

Description of first aid measures:

Inhalation: If inhaled remove victim to fresh air and keep at rest.
Call a poison center or physician if you feel unwell.

Skin contact: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs get medical advice/attention.

Eye contact: If in eyes rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and continue rinsing. Seek medical advice/attention.

Ingestion: Do NOT induce vomiting unless instructed by medical personal. Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms and effects, both acute and delayed:

Causes skin burns.

Causes eye burns.

Indigestion may cause gastrointestinal irritation, nausea, vomiting, diarrhea.

Indication of any immediate medical attention and special treatment needed:

If the product ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically.

Section 5 – Fire-Fighting Measures

Extinguishing media:

Suitable extinguishing media: Water fog, Carbon dioxide, Dry chemical, Foam

Unsuitable extinguishing media: Not available

Section 5 – Fire-Fighting Measures (Continued)

Special hazards arising from the substance or mixture: Non Known

Flammability classification: (OSHA 29 CFR 1910.106) (Hazcom 2012): Not Flammable.

Hazardous combustion products: Carbon oxides, oxides of nitrogen and ammonia, low molecular weight hydrocarbons.

Special protective equipment and precautions for firefighters:

Protective equipment for fire-fighters: Firefighters should wear proper protective equipment (Bunker gear) and self-contained breathing apparatus with full face operated in positive pressure mode.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

All persons dealing with the clean-up should use the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in section 7 and 8.

Methods and materials for containment and clean up:

Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent run-off into drains, sewers, or any natural waterway or drinking supply. Ventilate the area. Soak up with inert absorbent material. Scoop up material and place into suitable container(s). Dispose of according to local, state and federal regulations.

Section 7 – Handling and Storage

Precautions for safe handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye/face protection. Adequate ventilation should be supplied. Avoid contact with skin, eyes and clothing. Keep container tightly closed.

Conditions for safe storage:

Store in cool, dry and well ventilated place. Containers should be clearly identified, clear of obstructions and accessible only to authorized personnel. Protect from sunlight. Have appropriate fire extinguishers/sprinkler system in place. Spill clean-up equipment should be in or near storage area. Keep away from children.

Incompatible materials:

Strong oxidizers, Strong acids.

Section 8 – Exposure Controls/Personal Protection

Exposure limits

Chemical Name	ACGIH-TLV	OSHA-PEL
Ethanol	1000ppm	1000ppm

Exposure controls:

Ventilation and engineering measures: Use in well ventilated area. Apply technical measures to comply with occupational exposure limits if needed.

Respiratory measures: If airborne concentrations are above the permissible exposure limit use NIOSH approved respirators.

Skin Protection: Wear protective gloves. Where extensive exposure to the product is possible, use resistant apron/suit and boots.

Eye/face Protection: goggles or safety glasses with side shields.

Other Protective equipment: Ensure that eyewash stations and a safety shower are close to the workstation(s).

General hygiene considerations: Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Wash hands after handling. Remove and wash all contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

Section 9 – Physical and Chemical Properties

Appearance: Clear blue liquid.

Odor: disinfectant odor.

Odor threshold: Not available

PH: 6.1

Melting/Freezing pointing: Not available

Boiling point and boiling range: >100C (212F)

Flash point: >93.3°C (201°F)

Evaporation point (Butyl Acetate=1): Not available

Flammability (method determination): Small Scale closed cup, ASTM D3278/D3828

Lower flammability limit (% by vol.): Not available

Upper flammability limit (% by vol.): Not available

Vapor pressure: Not available

Vapor density: Not available

Relative density: 1.01

Solubility in water: Complete

Partition Coefficient (n-octanol/water): Not available

Auto ignition temperature: Not available

Section 9 – Physical and Chemical Properties (Continued)

Decomposition temperature: Not available

Viscosity: Not available

Volatiles (% by wt) = 1.2%

Volatile organic compounds: Ethanol

Other physical/chemical comments: No addition information.

Section 10 – Stability and Reactivity

Reactivity: Not normally reactive.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Heat. Contact with incompatible materials.

Incompatible materials: Strong oxidizing agents, Anionic surfactants.

Hazardous decomposition products: Carbon oxides, oxides of nitrogen and ammonia, low molecular weight hydrocarbons.

Section 11 – Toxicological Information

Information on routes of exposure:

Routes of entry-inhalation: YES

Routes of entry-skin & eye: YES

Routes of entry-Ingestion: YES

Routes of entry-skin absorption: YES

Potential Health Effects:

Signs and symptoms of short term exposure:

Signs and symptoms: Inhalation – May cause respiratory irritation. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.

Signs and symptoms: ingestion – Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Signs and symptoms: Skin – May cause severe irritation. Symptoms may include burning, redness, edema, drying, defatting and cracking of the skin.

Signs and symptoms: Eyes – May cause severe irritation and damage.

Potential Chronic Health Effects: None known

Section 11 – Toxicological Information

Mutagenicity: Not hazardous by OSHA/WHMIS criteria.

Carcinogenicity: ACGIH Carcinogens – Ethanol (Cas 64-17-5) A3 Confirmed animal carcinogen with unknown relevance to humans.

IARC monographs. Overall evaluation of carcinogenicity – Ethanol (Cas 64-17-5) 1 Carcinogenic to humans.

Reproductive effects: Not hazardous by OSHA/WHMIS criteria.

Sensitization to material: No data available to indicate product may be a sensitizer.

Specific target organ effects: Eyes, Skin, respiratory system

Medical conditions aggravated by overexposure: Pre-existing skin and eye conditions.

Toxicological data: The calculated ATE value for this mixture is above classification parameters for dermal and inhalation exposures.

ATE (oral) = 230mg/kg (rat) = Category 3

Chemical Name	LD50-Oral	Dermal
Alkyl dimethyl benzyl ammonium chloride (C12-16)		
Octyl decyl dimethyl ammonium chloride	*Cumulative of	*Cumulative of
Didecyl dimethyl ammonium chloride	First five	First five
Dioctyldimethylammonium chloride	compounds	compounds
Ethanol	* 50mg/kg (rat)	>2000mg/kg (rabbit)
Alcohol, C12-C15, Ethoxylated	1,600mg/kg (rat)	5,000mg/kg (rabbit)

Section 12 – Ecological Information

Ecotoxicity: May be dangerous to the environment. No data is available on the product itself. Should not be released directly into the environment.

Mobility in Soil: This product itself has not been tested.

Persistence and degradability: This product itself has not been tested.

Bioaccumulation potential: This product itself has not been tested.

Other adverse Environmental effects: None Known.

Section 13 – Disposal Information

Handling for disposal: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of disposal: Dispose in accordance with all applicable federal, state, provincial and local regulation. Contact your federal, state, provincial and local authorities for specific rules.

Section 14 – Transportation Information**US 49 CFR/DOT Hazard Classification:**

UN No.: UN1903
UN Proper shipping name: Disinfectants, liquids, corrosive, N.O.S.,
(Quaternary Ammonium Chlorides)
Transport hazard class: 8
Packing group: III
ERG: 153

Special Transportation Notes: Limited Quantity provisions are listed in 49 CFR 173.154(b).

DOT Marine Pollutants: This product does not contain Marine Pollutants as defined in CFR 49 171.8.

IMDG/IMO Code Shipping Classification:

UN No.: UN1903
UN Proper shipping name: Disinfectants, liquids, corrosive, N.O.S.,
(Quaternary Ammonium Chlorides)
Transport hazard class: 8
Packing group: III
ERG: 153

Not classified as a marine pollutant.

ICAO/IATA Air Transport Classification

UN No.: UN1903
UN Proper shipping name: Disinfectants, liquids, corrosive, N.O.S.,
(Quaternary Ammonium Chlorides)
Transport hazard class: 8
Packing group: III
ERG: 153

Section 15 – Regulatory Information

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act.

US CERCLA Reportable quantity (RQ): Sodium Nitrite (100lbs.)

SARA Title III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355:

No extremely hazardous substances are present in this material.

SARA Title III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes:

Reactive Hazard, Acute Health Hazard, Chronic Health Hazard. Under SARA Section 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA Title III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372:

This product contains Ethanol.

State Regulations:

California Proposition 65: This product does contain a chemical known to the State of California to cause, birth defects, reproductive harm and cancer.

International Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Section 16 – Other Information

HMIS – Hazardous Materials Identification System

Health -2 Flammability -1 Physical Hazard -1 PPE –B

NFPA – National Fire Protection Association

Health -2 Flammability -1 Reactivity -1

Abbreviations legend;

ACGIH: American Conference of Governmental Industrial Hygienist

CAS: Chemical abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980

CFR: Code of Federal Regulations

CSA: Canadian Standards Association

Section 16 – Other Information (Continued)

DOT: Department of Transportation
ECOTOX: U.S. EPA Ecotoxicology Database
EINECS: European Inventory of Existing Commercial chemical Substances
EPA: Environmental Protection agency
HSDB: Hazardous Substances database
IARC: International Agency for Research on Cancer
IBC: Intermediate Bulk Container
IUCLID: International Uniform Chemical Information Database
LC: Lethal Concentration
LD: Lethal Dose
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OECD: Organization for Economic Cooperation and Development
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

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