

Material Safety Data Sheet**Section 1 CHEMICAL PRODUCT and COMPANY IDENTIFICATION**

Identification: Product Name: STATICIDE® Concentrate
Product Number: # 3000Q, #3000G, #3000D

Recommend use: Anti-static Concentrate to be diluted for topical applications

Manufacturer: ACL Incorporated
840 W 49th PL
Chicago, IL 60609
PH: (01) 847.981.9212 [U.S.A.]
FAX: (01) 847.981.9278 [U.S.A.]

Emergency telephone: INFOTRAC: (01) 800.535.5053 (day or night)

Section 2 HAZARDOUS IDENTIFICATION**Classification**

NFPA HAZARD RATING: (3) Fire (3) Health (0) Reactivity
HMIS: (3) Fire (3) Health (0) Reactivity

Hazard Designation: F, Xi

Product Risk Phrases:

Flammable (R10)

Harmful if Swallowed (R22)

Causes Burns (R34)

Harmful to aquatic organisms (R52)

Keep out of the reach of children (S2)

When using do not eat, drink or smoke (S20/21)

Avoid contact with skin and eyes (S24/25)

Wear suitable protective clothing, gloves and eye /face protection (S36/37/39)

Emergency Overview: DANGER! Flammable liquid and vapor. Contains material which may cause damage to the following organs: respiratory tract, skin, eyes, and central nervous system. May cause sensitization by inhalation and skin contact.

Potential Health Effects:

Inhalation: Maybe harmful if swallowed. Avoid breathing vapor or mist. Use only with adequate ventilation.

Eyes: Will Burn, irritate or harm if direct contact is made.

Skin: Will Burn, irritate or dry skin if direct contact is made. May cause allergic skin reaction.

Ingestion: May be fatal if swallowed.

GHS:

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

Physical: Highly flammable.

Human: Harmful if swallowed. Causes burns. May cause sensitization by skin contact. Vapors may cause drowsiness and dizziness.



Signal Word: Danger

Hazard Statements:

Highly flammable liquid and vapor.

Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause drowsiness and dizziness.

Section 3	COMPOSITION / INFORMATION ON INGREDIENTS
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CHEMICAL	CAS	EC Number	Risk	Weight %
Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium nitrates	71487-00-8	Not assigned	Not available	51 – 58
Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium chlorides	70750-47-9	274-846-6	Not available	6 - 9
Isopropyl alcohol	67-63-0	200-661-7	R11, R36, R67	33 – 38

Section 4	FIRST AID MEASURES
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Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Oxygen may be administered if breathing is difficult. Seek medical attention.

Eye Contact: Check for and remove any contact lenses. Flush eyes with large amounts of water for 15 minutes. Cold water may be used. Get medical attention.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing and shoes before reuse. Seek immediate medical attention.

Ingestion: DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5	FIRE FIGHTING MEASURES
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Flash Point & Method: 20° C (68 °F) CC, Pinsky-Martens

Flammable Limits: LEL: 2% UEL: 12% (Isopropyl alcohol)

Autoignition Temperature: The lowest known value is 450° C (842° F) (Isopropyl alcohol)

General Hazard: Flammable in presence of open flames, sparks and static discharge. Vapor may cause flash fire. No sparking tools should be used. Take precautionary measures against static discharges.

Fire Fighting Instructions:

Small Fire: Use dry chemical powder

Large Fire: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Fire Fighting Equipment: Use an approved/certified respirator or equivalent.

Hazardous Combustion Products: Carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...)

Section 6	ACCIDENTAL RELEASE MEASURES
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Small Spill or Leak: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill or Leak: Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.

Section 7	HANDLING AND STORAGE
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Handling: Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Harmful if swallowed. When handling, wear eye protection and rubber gloves. **KEEP OUT OF REACH OF CHILDREN.** Wash thoroughly after handling. Launder contaminated clothing/equipment before reuse.

Storage: Store in a segregated and approved area. Keep container in a cool, well-ventilated area (between 18°C - 28°C / 64°F - 82°F) out of direct sunlight and away from incompatible materials (See STABILITY AND REACTIVITY Section 10). Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Follow all MSD sheet and Label warnings even after container is emptied.

Section 8	EXPOSURE CONTROL / PERSONAL PROTECTION
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OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Exposure Limits 8 Hours TWA (PPM)

	OSHA PEL	ACGIH TLV
Isopropanol	400 ppm	400 ppm
Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium nitrates	NIF	NIF
Methyl bis(2-hydroxyethyl) cocoalkyl quaternary ammonium chlorides	NIF	NIF

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. See section 2 for component exposure guidelines. Local Exhaust ventilation acceptable

Respirator: Vapor respirator. Be sure to use an approved / certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hand Protection: Gloves Recommended. Solvex, Neoprene, Butyl, Buna, and Natural Latex are acceptable.

Eye Protection: Ensure that eyewash stations are proximal to the work-station location. Splash Goggles are recommended.

Other Recommendations: Ensure the safety showers are proximal to the work-station location. Wear lab coat.

In Case of Large Spill: Splash goggles, full suit, vapor respirator, boots, gloves and a self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance	Liquid, yellow
Odor	Alcohol like
pH	6.5 – 7.5[Neutral]
Melting point/freezing point	Weighted average: -86° C (-122.8° F)
Initial boiling point and boiling range	80° C (176° F)
Flash point and method	20° C (68° F) CC, Pinsky-Martens
Evaporation rate	Weighted average: 1.68 compared to Butyl acetate
Flammability (solid, gas, liquid)	liquid
Upper/lower flammability or explosive limits	LEL: 2% UEL: 12% (Isopropyl alcohol)
Vapor pressure	760mm Hg @ 82.5° C
Vapor density (air=1)	The highest known value is 2.07 (Isopropyl alcohol)

Relative density	0.91 - .95 g/cm ³ (25° C / 77° F)
Solubility(ies).	Partially soluble in cold water
Partition coefficient: n-octanol/water	NE
Autoignition temperature	The lowest known value is 450° C (842° F) (Isopropyl alcohol)
Decomposition temperature	NE
Viscosity	37cp @ 25° C; 25cp @ 40° C
Volatile by weight	40%
VOC	No restricted VOC

Section 10	STABILITY AND REACTIVITY
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General: Stable

Incompatible Materials and Conditions to Avoid: Reactive with oxidizing agents

Hazardous Polymerization: Will not occur.

Section 11	TOXICOLOGY INFORMATION
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Results of Component Toxicity Test Performed:

LD₅₀ Rabbit (dermal) 12,800 mg/kg (Isopropanol)

LD₅₀ Rat (inhalation) 16,000 ppm: 8 hours (Isopropanol)

LD₅₀ Rabbit (oral) 6410 mg/kg (Isopropanol)

LD₅₀ Rat (oral) 400 mg/kg (quaternary ammonium compounds, coco alkylbis(hydroxyethyl) methyl, nitrates)

LD₅₀ Rat (oral) 400 mg/kg (quaternary ammonium compounds, coco alkylbis(hydroxyethyl) methyl, chlorides)

Human Experience: OSHA / NTP / DHHS - This product does not contain chemicals on the 11th Report on Carcinogens (RoC) NIOSH: None of the chemicals are listed on the NIOSH carcinogen list.

Section 12	ECOLOGICAL INFORMATION
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LC₅₀ Fish (96 hours) >100 mg/l (Isopropanol)

Products of Degradation: Carbon oxide (CO, CO₂) and water, nitrogen oxides (NO, NO₂...)

Section 13	DISPOSAL CONSIDERATIONS
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RCRA 40 CFR 261 Classifications: Code D001 Ignitable Waste

Federal, State, and Local laws governing disposal of material can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14	TRANSPORTATION INFORMATION
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U.S. DOT Information

Basic Description: HAZARDOUS MATERIAL

Proper Shipping Name: Isopropanol

Hazard Class: 3

Packaging Group: II

UN Number: UN1219

Limitations: NA

IATA

Proper Shipping Name: HAZARDOUS MATERIAL

Hazard Class: 3

Packing Group: II

UN Number: UN 1219

Limitations: NA



Section 15	REGULATORY INFORMATION
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US Federal Regulations: MSDS complies with the OSHA Hazard Communication Rule, 29 CFR 1910.1200. CERCLA/Superfund, 40 CFR 117, 302: None of the chemicals are CERCLA hazards

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:

Section 302 – None of the chemicals are extremely hazardous substances (40 CFR 355).

Section 311/312 – Material Safety Data Sheet Requirements (40 CFR 370): By our hazard evaluation, this product is hazardous. It should be reported as an immediate (acute) health hazard.

Section 313 – List of Toxic Chemicals (40CFR 372): This product contains chemicals (at level of 1% or greater) that are found on the 313 list of Toxic Chemicals.: Isopropyl alcohol (CAS 67-63-0)

Toxic Substance Control Act (TSCA): **All substances are TSCA listed.**

Resource Conservation and Recovery Act (RCRA 40 CFR 261) Subpart C & D: **Refer to Section 13.**

STATE REGULATIONS:

The following chemicals are specifically listed by individual state; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state

STATE	CHEMICAL	C.A.S. NUMBER	WEIGHT %
PA, NJ, MA	Isopropyl alcohol	67-63-0	33 – 38

California Proposition 65: --- **None of the chemicals are on the Proposition 65 list---**

INTERNATIONAL REGULATIONS:

Canada WHMIS:

904 (1050 FR) Isopropanol is listed on Ingredient Disclosure List (SOR/88-64)

Class B-2: Flammable liquid with a flash point lower than 37.8° C (100° F)

All Intentionally present components are listed on the DSL

To the best of our ability, this MSDS is written in accordance to REACH Directive EC1907/2006 Annex II and GHS requirements. This product is not subject to REACH restrictions. It does not contain any candidates on the SvHC.

Sections 16	OTHER INFORMATION
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REVISION DATES, SECTIONS, REVISED BY:

01-MAR-94	Original release date
02-APR-01,	Reviewed
05-DEC-01	Revised section 11 (ld)
01-JULY-04	New Format, All Sections, mkb
09-AUG-04	Revised section 7, mkb
20-JAN-06	Revised section 15, mkb
17-Aug-07	Revised section 11, mkb
21- Oct – 08	Revised section 9, mkb
29-Dec-08	Revised to EU format, mkb
26-Feb-09	Revised section 15, mkb
23-Nov-09	Revised address, mkb
25-Jun-10	Section 8, added substance, mkb
6-July-11	Sections 2, 9, 14, mkb
6-March-12	Sections 2, 3, mkb
11-April-13	Section 2, mkb

ABBREVIATIONS USED IN THIS DOCUMENT:

NE – Not Established, NA – Not Applicable, NIF – No Information Found

ABRIDGED LIST OF REFERENCES:

Code of Federal Regulations (CFR)

The Sigma-Aldrich Library of Regulatory and Safety Data

Chemical Guide and OSHA Hazardous Communication Standard
US Department of Labor; Occupational Safety & Health Administration (www.osha.gov)
The Environmental Protection Agency (www.epa.gov)
The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)
Government of Canada: <http://canadagazette.gc.ca/news-e.html>

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