

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Section 1 CHEMICAL PRODUCT SECTION

1.1 Identification:

Product Name: STATICIDE® Clean Room
Product Number: # 5001
CAS: Mixture (see section 3)

1.2 Product description:

Daily use anti-static topical
Product type: Liquid mixture with isopropyl alcohol
Application: Industrial applications, professional applications. Interior use

1.3 Manufacturer:

ACL, Inc.
840 W. 49th Place
Chicago, IL 60609
Telephone: (01) 847.981.9212 [U.S.A.]
FAX: (01) 847.981.9278 [U.S.A.]
Email of responsible party for SDS: marykay@aclstaticide.com

1.4 Emergency telephone:

US/Canada Emergency TEL: INFOTRAC: (01) 800.535.5053 (day or night)
International Emergency TEL: INFOTRAC: 352.323.3500 (day or night)

Section 2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] & (US) OSHA HCS 2012:

PHYSICAL/CHEMICAL HAZARDS:

H225 Highly flammable liquid and vapor - Category 2

HUMAN HEALTH HAZARDS:

H318 Serious eye damage/ eye irritation - Category 2A

H336 Specific target organ toxicity (single exposure) [Narcotic effects] - Category 3

ENVIRONMENTAL HAZARDS:

Not Classified

Ingredients of unknown toxicity: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1.5%

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms:



Signal word: Danger

Hazard Statement: Highly flammable liquid and vapor (H225)
Causes serious eye irritation (H319)
May cause drowsiness or dizziness. (H336)

Precautionary statements

Prevention:

Keep out of reach of children (P102)
Keep away from heat/sparks/open flames/hot surfaces. No Smoking. (P210)
Use explosion-proof electrical/ ventilating/ lighting/ equipment. (P241)
Use non-sparking tools (P242)
Take action to prevent static discharges (P243)
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. (P261)
Wash hands thoroughly after handling (P264)
Use only outdoors or in a well-ventilated area. (P271)
Wear protective gloves/protective clothing/eye protection/face protection (P280)

Response:

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower (P303, P361, P353)
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. (P304, P340, P312)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. (P305, P351, P338)
If eye irritation persists: get medical attention. (P337, P313)
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. (P370, P378)

Precautionary Statements – Storage:

Store in a well-ventilated place. Keep container tightly closed (P403+P233)
Store in a well-ventilated place. Keep cool. (P403+P233)
Store locked up (P405)

Precautionary Statements – Disposal: Dispose of contents/container to comply with local, state and federal regulations (P501)

2.3 Other Hazard: None known

Section 3

INFORMATION ON HAZARDOUS INGREDIENTS

3.1 Substances

CHEMICAL	CAS	Weight %	GHS Classification
Isopropyl alcohol	67-63-0	46– 49	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Deionized water	7732-18-5	47 – 51	

Section 4

FIRST AID MEASURES

4.1.1 General Information

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

4.1.3 Skin: 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.

4.1.4 Eyes: 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.

4.1.5 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.

4.1.6 Self-protection of the first aider: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

Potential acute health effects

Eye contact: Causes serious eye irritation.

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness

Skin contact: No known significant effects or critical hazards.

Ingestion: Isopropyl alcohol can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following: pain or irritation watering redness

Inhalation: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: No specific data

Ingestion: No specific data

4.3: Indication of any immediate medical attention and special treatment needed: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled

Section 5	FIRE FIGHTING MEASURES
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5.1 Extinguishing Media

Suitable extinguishing media : Use dry chemical powder for small fires. For large fires, use alcohol foam, water spray or fog.

Unsuitable extinguishing media: No specific data

5.2 Specific hazards arising from substance or mixture

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.

Hazardous thermal decomposition products: Carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...)

5.3 Advice from fire fighters

Use an approved/certified respirator or equivalent. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Section 6	ACCIDENTAL RELEASE MEASURES
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6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flames, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials

6.2 Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material or containment and cleaning up

6.3.1 For containment: Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material.

6.3.2 For cleaning up Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. None

6.3.3 Other information: Keep away from heat. Keep away from sources of ignition.

6.4 Reference to other sections: For personal protection, see Section 8

Section 7	HANDLING AND STORAGE
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7.1 Precautions for safe 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.

7.2 Conditions for safe storage including incompatibilities:

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 SDS and Label warnings even after container is emptied.

7.3 Specific end use(s): Anti-static topical for industrial cleanrooms

Section 8	EXPOSURE CONTROL / PERSONAL PROTECTION
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8.1 Control parameters

Occupational exposure limits

ingredient name	OSHA PEL	ACGIH TLV	NIOSH REL	WEL UK
Isopropanol	400 ppm TWA ; 980 Mg/m ³ 500 ppm STEL ; 1225 Mg/m ³	400 ppm TWA ; 983 Mg/m ³ 500 ppm STEL ; 1230 Mg/m ³	400 ppm TWA 980 Mg/m ³ 500 ppm STEL 1225 Mg/m ³	400 ppm TWA ; 999 mg/m ³ 500 ppm STEL ; 1225 mg/m ³

Recommended monitoring procedures: Not established

DNELs/DMELs: No DNELs/DMELs available.

PNECs: No PNECs available

8.2 Exposure controls:

8.2.1 Appropriate 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

8.2.2 Personal protective equipment Ensure the safety showers are proximal to the work-station location. Wear lab coat.

8.2.2.1 Eye and face protection Ensure that eyewash stations are proximal to the work-station location. Splash Goggles are recommended.

8.2.2.2 Skin protection Gloves Recommended: Solvex, Neoprene, Butyl, Buna or Natural Latex are acceptable

8.2.2.3 Respiratory protection Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on

known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

8.2.2.4 Thermal hazards: Wear appropriate thermal protective clothing, when necessary

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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	Clear, liquid
Odor	Alcohol
Odor threshold	Not determined
pH	< 6
Melting point/freezing point	Not determined
Initial boiling point and boiling range	167°F / 75°C
Flash point and method	20° C (68 °F) CC, Pensky-Martens
Evaporation rate (H ₂ O=1)	< 1
Flammability (solid, gas, liquid)	Flammable liquid
Upper/lower flammability or explosive limits	LEL: 2% UEL:12%
Vapor pressure	Not determined
Vapor density (air=1)	Not determined
Water solubility.	Miscible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	The lowest known value is 450° C (842° F) (Isopropyl alcohol)
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined

9.2 Other safety information

Specific Gravity	903 gm/liter (.903 gm/cc)
VOC	3.62 VOC /GAL

Section 10	STABILITY AND REACTIVITY
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10.1 Reactivity: Stable under recommended storage conditions

10.2 Chemical stability: Stable under recommended storage conditions

10.3 Possibility of hazardous reactions: None under normal conditions. Hazardous polymerization will not occur under normal storage conditions.

10.4 Conditions to avoid: All possible sources of ignition

10.5 Incompatible materials: Strong oxidizing agents

10.6 Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Formaldehyde oxides of carbon and various unidentified organic compounds.

Section 11	TOXICOLOGY INFORMATION
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11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose
Isopropanol	LD ₅₀ dermal	Rabbit	12,800 mg/kg
	LC ₅₀ inhalation	Rat	72.6 mg/l
	LD ₅₀ oral	Rabbit	6410 mg/kg

Conclusion/Summary : Not available

Eye and Skin Irritation/Corrosion

Product/ingredient name	Result	Species	Exposure
Isopropanol	Eye irritation	Rabbit	24 hours
	Mild skin irritation	Rabbit	

Conclusion/Summary : Not available

Skin sensitization

Product/ingredient name	Result	Species	Test
Isopropanol	Does not cause skin sensitization	Guinea Pig	Bueler

Sensitization to the respiratory tract

Product/ingredient name	Result	Species	Test
Isopropanol	No data available		

Conclusion/Summary: Not available.

Mutagenicity

Product/ingredient name	Result	Species	Test
Isopropanol	Negative	Bacteria	Ames test Method: OECD Test Guideline 471
Lactic Acid has been investigated as a mutagen.			

Conclusion/Summary: Not available.

Carcinogenicity Conclusion/Summary:

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.

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

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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

Reproductive toxicity Conclusion/Summary: Not available.

Teratogenicity Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure) Inhalation, Oral - May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Not available.

Aspiration hazard: Not available.

Information on the likely routes of exposure: Not available.

Section 12	ECOLOGICAL INFORMATION
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12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Isopropanol	LC50 > 1,400 mg/l	Lepomis macrochirus (Bluegill sunfish)	96 hours
	EC50 > 2,285 mg/l	Daphnia (water flea)	48 hours

Conclusion/Summary : Not available

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Isopropanol	OECD Test Guideline 203	Not determined	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Isopropanol	-	-	Readily biodegradable

Conclusion/Summary : Not available

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Isopropanol	Low value	-	Not likely

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}): Not available.

Mobility: Not available.

12.5 Results of PBT and vPvB assessment

PBT: Not available.

vPvB: Not available.

12.6 Other adverse effects: No known significant effects or critical hazards. The ecological effects of this product have not been determined. The solvents in this product are not classified as toxic to aquatic organisms.

Section 13	DISPOSAL CONSIDERATIONS
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The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

13.1.1 Product / Packing Disposal

Product

Methods of disposal: Offer surplus and non-recyclable solutions to a licensed disposal company

Hazardous waste: RCRA 40 CFR 261 Classifications: Code D001 Ignitable Waste

Contaminated Packaging

Methods of disposal: Dispose of as unused product. Waste packaging should be recycled.

13.1.2 Waste treatment-relevant information: Incineration or landfill should only be considered when recycling is not feasible. Handle empty containers with care because residual vapours are flammable

13.1.3 Sewage disposal-relevant information: Avoid release to the environment

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

Section 14 TRANSPORTATION INFORMATION

	Proper Shipping Name	Hazard Class	Packing Group	UN number	Limitations
US DOT ground	Hazardous Material: Isopropanol	3	II	1219	NA
US DOT air	Hazardous Material: Isopropanol	3	II	1219	NA
IATA	Hazardous Material: Isopropanol	3	II	1219	NA
IMDG	Hazardous Material: Isopropanol	3	II	1219	NA

Section 15 REGULATORY INFORMATION

SDS 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 – Extremely hazardous substances (40 CFR 355): **-None**

Section 311/312 – Material Safety Data Sheet Requirements (40 CFR 370):
By our hazard evaluation, this product is hazardous. It should be reported under the following EPA hazard.

(X) Immediate (acute) health hazard

Section 313 – List of Toxic Chemicals (40CFC 372): This product does not contain chemicals (at level of 1% or greater) that are found on the 313 list of Toxic Chemicals.

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 for RCRA classification.**

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	46– 49

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)

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

EU regulations:

Authorisations and/or restrictions on use under Annex XVII:

Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	2-propanol 67-63-0
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	2-propanol 67-63-0

Other EU regulations Europe inventory: Not determined.

Seveso III Directive: This product is controlled under the Seveso III Directive 2012/18/EU.

Danger criteria

Category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

C7b: Highly flammable (R11)

To the best of our ability, this SDS is written in accordance to REACH Directive EC1907/2006 Annex II and GHS requirements. This product is not subject to REACH restrictions under Annex XVII. This product does not contain a substance identified as a SvHC candidate.

15.2 Chemical Safety Assessment: No chemical safety assessment has been carried out

Sections 16.

OTHER INFORMATION

NFPA HAZARD RATING:

Fire: Flammable over 73F

Health: Can cause significant irritation

Reactivity: stable

Special Hazard: none



REVISION DATES, SECTIONS, REVISED BY:

01-MAR-92	Original release date
17-Aug-07	Revised section 11, mkb
1-Oct-09	New format and address, mkb
17-Sept-10	Section 9, mkb
16-Apr-12	Sections 2,3, mkb
16-Sept-13	Section 9, mkb
19-DEC-15	GHS updates, mkb
18-Jan-17	REACH formatting updates, mkb
19-Jan-17	Corrected section 3, mkb
14-Feb-18	Section 15, mkb
29-Sept-20	Reviewed, Mary Kay Botkins

ABBREVIATIONS USED: 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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