STATICIDE CLEAN ROOM

Specification N°: MSDS 41-100-5001 VE 03/14

PRODUCT IDENTIFICATION

Product name: STATICIDE CLEAN ROOM

Use of the product: Anti-static topical to be used daily for interior industrial applications

Item part number: 41-100-5001

Company: SJM EUROSTAT
45 Route d'Orgelet
F-39130 PONT DE POITTE

For Chemical emergency: ORFILA
Telephone: 01 45 42 59 59

INFORMATION ON HAZARDOUS INGREDIENTS

Chemical	CAS Number	Weight %
Isopropyl alcohol	67-63-0	33 - 38
Deionized water	7732-18-5	47 - 51

HAZARD IDENTIFICATION

NFPA HAZARD RATING: (3) Fire (1) Health (0) Reactivity

Hazard Designation: F, Xi
Product Safety and Risk Phrases:

- Highly Flammable (R11)
- Keep out of the reach of children (S2)
- Keep lid tightly closed (S7)
- Keep away from sources of ignition- No Smoking (S16)
- When using do not smoke (S21)
- Avoid contact with eyes (S25)
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)

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:	May irritate or dry skin if direct contact is made. May cause allergic skin reaction.
Ingestion:	May be harmful if swallowed.

GHS:

Physical:	Danger: Category 2; highly flammable liquid and vapor. H225 Highly flammable liquid
Health:	Danger: Category 2A; serious eye damage / eye irritation. H319 Causes serious eye irritation
Environmental-	P102 Keep out of reach of children P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking P233 Keep container tightly closed P235 Keep Cool P280 Wear protective gloves /eye protection/face protection

FIRST AID MEASURES

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

FIRE FIGHTING MEASURES

Flash point and method:	20°C (68°F) CC, Pensky-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.
Firefighting 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, CO_2), nitrogen oxides (NO, NO_2…)

ACCIDENTAL RELEASE MEASURES

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

HANDLING AND STORAGE

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.

EXPOSURE CONTROL / PERSONNAL PROTECTION

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

Personal Protection:

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 or 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 labcoat.

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.

PHYSICAL AND CHEMICAL PROPERTIES

pH:	< 6
Boiling point:	167°F / 75°C
% Solids:	< 1
Solubility in water:	Miscible
VOC:	3.62 VOC/GAL
Specific gravity:	903 gm/liter (903 gm/cc)

Physical state:	Liquid
Appearance:	Clear
Odor:	Medicinal alcohol-like

STABILITY AND REACTIVITY

General: Stable

Incompatible Materials and Conditions to Avoid: All possible sources of ignition and strong oxidizing agents

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

Hazardous Polymerization: Will not occur

TOXICOLOGY INFORMATION

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)

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.
Lactic Acid has been investigated as a mutagen.

ECOLOGICAL INFORMATION

LC_{50} Fish (96 hours) >100 mg/l (Isopropanol)
Products of Degradation: Carbon oxide (CO, CO_2) and water, nitrogen oxides (NO, NO_2...)

DISPOSAL CONSIDERATION

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.

TRANSPORT INFORMATION

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

REGULATORY INFORMATION

This MSDS complies with OSHA 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.

Chemical	CAS N°	Weight %
Isopropyl alcohol	**67-63-0**	**46 – 49**

International regulations:

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)

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.

OTHER INFORMATION

ABBREVIATIONS USED:
NE – Not Established, NA – Not Applicable, NIF – No Information Found

NFPA Hazard rating: (0) Fire (1) Health (0) Reactivity

To the best of our knowledge, the information contained herein is accurate. However, neither SJM EUROSTAT nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists.