





KANO LABORATORIES, INC.
SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Kano Laboratories, Inc.
1000 E. Thompson Lane
Nashville, TN 37211
Information Phone Number: (615) 833-4101
Fax: (615) 833-5790 **Emergency:** 800-424-9300 (Chemtrec)
Website: www.kanolaboratories.com

HMIS Hazard Rating

	HEALTH	1
	FLAMMABILITY	2
	REACTIVITY	0
	PERSONAL PROTECTION	X

Product Name: GLIT (Liquid)
MSDS Date of Preparation: 12/14/2010
Product Use: Liquid window cleaner

SECTION 2: HAZARDS IDENTIFICATION

Clear, colorless liquid with a rubbing alcohol odor.

EMERGENCY OVERVIEW

WARNING! Flammable Liquid and Vapor. May cause flash fire or explosion. Harmful if inhaled. May cause severe eye irritation. Causes skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness, nausea and vomiting. Aspiration into the lungs during ingestion or vomiting may cause lung damage.

Potential Health Effects:

Eye: May cause severe eye irritation with redness, tearing, and stinging, and possible corneal damage. Contact with high concentrations of vapor may cause irritation.

Skin: May cause irritation with redness, rash, and swelling. Prolonged or repeated contact may result in defatting and dermatitis.

Inhalation: Inhalation of high concentrations of vapors or mists may cause mucous membrane and upper respiratory tract irritation and central nervous system depression. Symptoms may include headache, dizziness, drowsiness, nausea, and staggering. Prolonged overexposure or exposure to high concentrations may cause unconsciousness or death.

Ingestion: Minimal toxicity by ingestion. Aspiration into the lungs during ingestion or vomiting may cause lung damage, pneumonia, or edema.

Chronic Hazards: Prolonged or repeated exposure may cause skin effects..

Carcinogen Status: None of the components are listed as carcinogens by IARC, NTP or OSHA.

Medical Conditions Aggravated by Exposure: Skin and respiratory tract conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	%
Isopropanol	67-63-0	70-90
Non-hazardous Ingredients	Mixture	20-40

SECTION 4: FIRST AID MEASURES

Eye: Rinse thoroughly with water for at least 15 minutes, holding the eye lids open to be sure the material is washed out. Get immediate medical attention.

Skin: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before re-use.

Inhalation: Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

Ingestion: DO NOT induce vomiting. Keep the victim calm and warm. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Use water spray, carbon dioxide, dry chemical or foam.

Special Fire Fighting Procedures: Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

Unusual Fire Hazards: Flammable liquid and vapor. Vapors may cause flash fire and can be explosive at high concentrations in air. Vapors are heavier than air and may trail along surfaces to remote ignition sources and flash back. Vapors are easily ignited by static spark.

Hazardous Decomposition Products: Oxides of carbon, aluminum oxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill: Evacuate the area. Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed (refer to Section 8 for specific recommendations). Ventilate area with explosion-proof equipment and avoid breathing vapors. Cover with an inert absorbent material and collect into an appropriate container for disposal. Prevent release to waterways. Report spills and releases as required to appropriate authorities. After removal, flush contaminated area thoroughly with water.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash exposed skin thoroughly with soap and water after use. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Electrically ground and bond containers when transferring material. Keep containers closed when not in use. Do not cut, braze, solder, grind or weld empty containers. Do not reuse containers. Follow all MSDS precautions in handling empty containers.

Storage: Keep away from heat, sparks, and flame. Store in a cool, dry, well-ventilated location away from incompatible materials. Keep containers closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Isopropanol	400 ppm OSHA PEL-TWA 200 ppm ACGIH TLV-TWA 400 ppm ACGIH TLV-STEL
Non-hazardous Ingredients	None Established

Ventilation: Use with adequate general or local exhaust ventilation to maintain concentrations below the occupational exposure limits. Use explosion proof electrical equipment and wiring where required.

Respiratory Protection: If the exposure limits are exceeded, an approved respirator with organic vapor cartridges may be used. For higher exposures, a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable standards and good Industrial Hygiene practice.

Skin Protection Impervious gloves are recommended to avoid skin contact. Suggested materials of construction are neoprene or nitrile for limited use only.

Eye Protection: Chemical safety goggles recommended.

Other Protective Equipment: Impervious clothing as required to prevent skin contact and contamination of personal clothing. Suitable eye wash and washing facilities should be available in the work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear, colorless liquid with a slight ethanol odor.

pH: N/A

Boiling Point: 180°F

Vapor Pressure: 33.000mmHg @ 68.0°F

Percent Volatile by Volume: 100%

Flash Point: 53.0°F(11.6°C) TCC

Autoignition Temperature: 750.0°F (398.8°C)

Specific Gravity: 0.789@60.00°F

Melting Point: Not established

Water Solubility: Soluble.

Evaporation Rate (ether=1): 7.70 (Ethel Ether)

Flammable Limits: LEL: 2.0%

UEL:12.0%

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage or use.

Incompatibility/Conditions to Avoid: Avoid acids, aldehydes, alkalines, amines, chlorinated hydrocarbons, chlorine, ethylene oxide, isocyanates, strong oxidizing agents. Do not use with aluminum equipment at temperatures above 120°F.

Hazardous Decomposition Products: Combustion will produce oxides of carbon, aluminum oxide.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological testing has not been performed on this product as a mixture. There is no toxicological data available at this time. The calculated acute oral toxicity value, as determined by the DOT and other agency standard formula are: Oral LD50 = >5000. GLIT is not classified as orally toxic under workplace or transportation criteria.

SECTION 12: ECOLOGICAL INFORMATION

Isopropanol: LC50 Fathead minnow: 9.64 g/l/96hr

SECTION 13: DISPOSAL INFORMATION

This product must be disposed of as hazardous waste under RCRA. Dispose in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORT INFORMATION
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Containers not over 1 liter (0.3 gallons) capacity**DOT Shipping Name:** Consumer Commodity**DOT Hazard Class/Packing Group:** ORM-D**UN Number:** Not Applicable**DOT Labels Required (49CFR172.101):** None**Containers over 1 liter (0.3 gallons) capacity****DOT Shipping Name:** Isopropanol Solution**DOT Hazard Class/Packing Group:** 3, II**UN Number:** UN1219**DOT Labels Required (49CFR172.101):** Flammable Liquid**Hazardous Substance (49CFR172.101):** None**Reportable Quantity:** None**DOT Marine Pollutants:** This product does not contain marine pollutants as defined in 49CFR 171.8.**IATA Shipping Name:** Isopropanol Solution**IATA Hazard Class/Packing Group:** 3, II**UN Number:** UN1219**IATA Hazard Labels Required:** Flammable Liquid

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:**CERCLA 103 Reportable Quantity:** There is no RQ established for this product. Many states have more stringent reporting requirements. Report spills and other releases as required under federal, state and local regulations.**SARA TITLE III:****Hazard Category for Section 311/312:** Acute Health, Fire Hazard**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None.**Section 302 Extremely Hazardous Substances (TPQ):** None**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on the TSCA inventory.

SECTION 16: OTHER INFORMATION

HMIS Ratings: Health – 1 Flammability - 3 Reactivity - 0**NFPA Ratings:** Health – 1 Flammability - 3 Reactivity - 0

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The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or the consequences of its use or misuse.