



ARROWHEAD FORENSICS

11030 Strang Line Road

Lenexa, KS 66215

MATERIAL SAFETY DATA SHEET

SPRAY NINE, MULTI-PURPOSE GERMICIDAL CLEANER

SECTION 1 - IDENTITY

PRODUCT NAME: Spray Nine®

PRODUCT TYPE: Multi-Purpose Germicidal Cleaner

PRODUCT TRADE NAME: 26832

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	WEIGHT%	ACGIH; TLV-TWA	OSHA PEL	
2-BUTOXYETHANOL	1-5	20 ppm;	50 ppm; 240 mg/m ³	111-76-2
ETHOXYLATED C9-C11 ALCOHOLS	1-5	NA	NA	68439-46-3

SECTION 3 - HAZARDOUS IDENTIFICATION

Effects of Acute Exposure: Product may cause reversible eye and skin irritation. May irritate respiratory system upon frequent or prolonged use.

Primary Routes of Entry: Eye and skin contact, inhalation

Signs and Symptoms of Exposure: Overexposure may cause eye and skin redness. May cause inflammation of mucous membranes and irritation. Ingestion may cause nausea and vomiting. Medical Conditions Recognized as Being Aggravated by Exposure: None known. Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

Chronic Health Hazard: None known

SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Contact a physician if irritation persists.

Skin Contact: Immediately remove contaminated clothing and excess contaminant. Flush with water for at least 15 minutes. Wash thoroughly with soap and water. Consult a physician if irritation develops.

Ingestion: If swallowed, DO NOT induce vomiting. Give victim water, call a physician immediately. Never give anything by mouth to an unconscious person

Inhalation: Move to fresh air; get medical attention if symptoms persist.

Notes to Physician: Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point °F(C°): 182°F/83°C TCC

Recommended Extinguishing Media: Carbon dioxide, Dry chemical, Foam

Special Fire-Fighting Procedures: Wear suitable protective equipment. Use water spray to cool exposed containers.

Hazardous Products of Combustion: Oxides of carbon, oxides of nitrogen

Unusual Fire/Explosion Hazards: Does not sustain combustion (ASTM D4206)

Sensitivity to Static Discharge: Sensitivity to static discharge is not expected.

Mechanical Sensitivity: None reasonably foreseeable

Lower Explosive Limit: Not determined

Upper Explosive Limit: Not determined

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spills may cause slippery floors. Prevent spill from entering drainage/sewer systems, waterways and surface water. Notify local health authorities and other appropriate agencies if such contamination occurs.

SECTION 7 - HANDLING AND STORAGE

Keep out of reach of children. Keep containers tightly closed in a cool, well-ventilated place. Store below 100°F. Do not allow freezing.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	Safety glasses
Skin:	Chemical resistant gloves
Ventilation:	Use only in well ventilated area.
Respiratory Protection:	Not required under normal use

CONTINUED ON REVERSE SIDE

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless to slightly colored solution	Specific Gravity:	~1.022 g/ml
Odor:	Mild	Vapor Density:	(Air = >1)
Boiling Point:	~212°F/~100°C	Vapor Pressure:	~18 mm Hg
Freezing Point:	~32°F/~0°C	VOC (Wt.%)	<4% by weight
pH:	~12.6	Evaporation Rate:	<1 (butyl acetate = 1)
Solubility in Water:	Completely soluble		

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibilities: Strong oxidizers
Conditions to Avoid: Avoid temperatures greater than 100°F. Freezing conditions.
Hazardous Products of Combustion: Oxides of carbon, Oxides of nitrogen

SECTION 11 - TOXICOLOGY INFORMATION

PRODUCT TOXICITY

Eyes:	Skin:	Inhalation LC50:	Oral LD50:
Draize Test: 27.3 out of 110	Draize Test 2.5 out of 10 LD50: >5,000 mg/kg (Rat)	>200 g/L (Rat)	>5,000 mg/kg (Rat)

SECTION 12 - ECOLOGICAL INFORMATION

None

SECTION 13 - DISPOSAL CONSIDERATION

Disposal should be made in accordance with federal, state and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

GROUND TRANSPORT (DOT)

DOT Shipping Name: Not Regulated
Hazard Class: None
UN/ID Number: None
TDG (Transport of Dangerous Goods) Canada Proper Shipping Name: Not Regulated
Hazard Class: None
UN/ID No: None

SECTION 15 - REGULATORY INFORMATION

SARA 302 Extremely Hazardous Substances: None
SARA 313 Toxic Chemicals: 2-butoxyethanol (Glycol ethers)
SARA (311,312) Hazard Class: Acute health hazard
TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.
California Proposition 65: No California Prop 65 chemicals are known to be present.
WHMIS Hazard Class: Exempt

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