



## STOLLER USA

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**N-LARGE™**

**MATERIAL SAFETY DATA SHEET (rev. 05/04)**

### SECTION I. PRODUCT IDENTIFICATION

HEALTH HAZARD 2      **NFPA HAZARD RATINGS**      FIRE HAZARD 3      REACTIVITY 0

#### SARA/TITLE III HAZARD CATEGORIES (See Section IX)

Immediate (ACUTE) Health: Yes      Delayed (Chronic) Health: None known yet  
Reactive Hazard: None      Fire Hazard: Yes      Sudden Release of Pressure: No

Company Name: STOLLER ENTERPRISES, INC.

Address: 4001 W Sam Houston Pkwy N, Suite 100, Houston, Texas 77043-1226 U.S.A.

**Emergency Phone Number: CHEMTREC In the US and Canada call toll-free 1 (800) 424-9300  
From other countries call collect +1 (703) 527-3887**

Phone Number for Information: 1 (713) 461-1493

Chemical Family: plant growth regulator and alcohols.

Chemical Name & Synonyms: Gibberellins: Gibberellic acid, Gibberellin A<sub>3</sub>

Alcohols: Isopropyl alcohol, Isopropanol, 2-Propanol

Formula: Gibberellic Acid = C<sub>19</sub>H<sub>22</sub>O<sub>6</sub> / Isopropanol = (CH<sub>3</sub>)<sub>2</sub>-CHOH

Trade name & Synonyms: N-LARGE™

### SECTION II. COMPONENTS / HAZARDOUS INGREDIENTS

A. COMPONENTS:	CAS Reg. No.	Approx. %	TLV	RTECS No.	Haz-Mat
Gibberellic acid	77-06-5	4.0	N/L	LY8990000	No
Isopropyl Alcohol	67-63-0	>90.0	400 ppm	NT8050000	Yes

### SECTION III. PHYSICAL AND CHEMICAL DATA

**APPEARANCE AND ODOR:** Clear colorless to light yellow liquid; alcohol characteristic odor.

**BOILING POINT:** 82.5°C (Isopropyl Alcohol)

**FREEZING POINT:** -92.8°C      **pH:** 3 – 4

**VAPOR PRESSURE:** 33 mmHg @ 20°C (Isopropyl Alcohol)

**VAPOR DENSITY (air = 1):** 2.1 (Isopropyl Alcohol)

**SPECIFIC GRAVITY (WATER=1):** 0.79 gr/ml (Isopropyl Alcohol)

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE (Ethyl Ether = 1):** 2.4

**PERCENT VOLATILE BY VOLUME:** 100

### SECTION IV. FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** 53°F; 12°C (Isopropyl Alcohol)

**AUTOIGNITION TEMPERATURE:** 750°F; 399°C

**FLAMMABLE LIMITS:**      **LEL:** 2.0

**UEL:** 12.0

**EXTINGUISHING AGENT:** Use "alcohol" foam, CO<sub>2</sub>, or dry chemicals. Water may be ineffective.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear protective clothing and self-contained breathing apparatus

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Flammable liquid, keep away from sparks and open flame. Fumes may travel considerable distances to source of ignition and flash back. Container may explode under fire conditions.

### SECTION V. PHYSICAL HAZARDS (REACTIVITY DATA)

**STABILITY:** Stable

**INCOMPATIBILITY, MATERIALS TO AVOID:** Acid anhydrides, acids, oxidizing agents, halogens, and aluminum.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO<sub>2</sub>, and CO may evolve during burning

**HAZARDOUS POLYMERIZATION:** Will not occur.

**SECTION VI. HEALTH HAZARDS**

**HEALTH CONSIDERATIONS:** Irritating to eyes, respiratory tracts and skin. RISK OF SERIOUS DAMAGE TO EYES.

**TARGET ORGANS:** Eyes, central nervous system, reproductive system, kidneys, possibly skin.

**SPECIAL TARGET ORGANS EFFECTS:** Gibberellic acid is a plant growth hormone that has been reported to have estrogenic and androgenic activity in animals. In reproduction studies in rats, no adverse effects were noted following large dosages (1000 mg/kg/day). The alcohol component is a central nervous system depressant. Repeated exposure at high concentrations (2.5% or greater in drinking water) produced reproductive effects in rats.

**SYMPTOMS OF OVEREXPOSURE:** Overexposure to Isopropyl Alcohol by inhalation or ingestion can cause flushing, headache, dizziness, mental depression, nausea, vomiting, drowsiness, anesthesia and coma. Vapor levels at or above 400 ppm for 3-5 minutes cause mild irritation to eyes, nose and throat. Dermatitis, defatting and dryness or cracking of skin may occur after prolonged or repeated contact.

**A. EXPOSURE LIMITS**

OSHA Permissible Exposure Limit (PEL): NOT ESTABLISHED

Threshold Limit Value (TLV): NOT ESTABLISHED

**B. CARCINOGEN OR POTENTIAL CARCINOGEN**

- NTP: Not Listed OSHA: N/L
- IARC: N/L ACGIH: N/L

**C. EMERGENCY FIRST AID PROCEDURES:**

**EYES:** IMMEDIATELY flush with a directed stream of water for at least 15 minutes forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. GET MEDICAL ATTENTION.

**SKIN:** Wash thoroughly with soap and water. Wash clothing before reuse. IF IRRITATION OCCURS, GET MEDICAL ATTENTION

**INHALATION:** If symptoms develop, get person out of contaminated area to fresh air

**INGESTION:** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Have patient drink several glasses of water then induce vomiting by having patient tickle back of throat with finger. Keep airways clear. GET MEDICAL ATTENTION IMMEDIATELY.

**D. ANIMAL TOXICITY DATA**

**ORAL:** LD50 (rats) >5000 mg/kg

**DERMAL:** LD50 (rabbits) >2000 mg/kg

**INHALATION:** LC50 (rats) >6.57 mg/l/4 hours

**SECTION VII - SPECIAL PROTECTION / CONTROL MEASURES**

**RESPIRATORY PROTECTION:** As required by conditions. Use and OSHA or NIOSH approved respirator if required.

**VENTILATION:** General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions.

**SKIN AND EYE PROTECTION:** Safety glasses should be worn in any type of operation. Protective rubber or latex gloves should be worn. Protective clothing is recommended; remove and wash contaminated clothing promptly.

**OTHER CONTROL MEASURES:** Safety shower, eye bath and washing facilities should be available. Wash thoroughly after handling. Do not smoke when handling chemicals.

**SECTION VIII. SPECIAL STORAGE AND HANDLING PRECAUTIONS**

Normal warehouse storage is satisfactory, but AVOID ANY SOURCE OF FIRE CLOSE TO THIS PRODUCT (sparks, cigarettes, matches, lighters, etc.). For bulk storage, use drums/tanks made of HDPE, carbon steel or stainless steel. Avoid excessively high temperatures and direct sunlight while stored. Wash thoroughly after handling.

**SECTION IX. SPECIAL PRECAUTIONS & SPILL/LEAK PROCEDURES**

**HANDLING AND STORAGE:** Keep containers closed and dry, away from any spark or ignition source. Avoid unnecessary contact with skin or clothing. Wash hands thoroughly after using.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:** Use non-sparking tools, collect and contain product in appropriate container for salvage or disposal. Absorb waste on inert media and dispose of as solid waste. Ventilate and wash area. Shut off all sources of ignition.

**WASTE DISPOSAL METHODS:** Dispose of product in compliance with all federal, state and local laws concerning health and environment.

**SECTION IX ENVIRONMENTAL EFFECTS DATA**

Available data on the raw materials does not indicate an undue hazard to the environment under anticipated conditions of storage and use. Any waste due to spillage or leakage should be contained and disposed of as a Pesticide (see above under Waste Disposal Methods). Due to its hormonal value, may contribute to eutrophication in bodies of water.

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details.

**SECTION X TRANSPORTATION DATA**

**DOT Proper Shipping Name:** ISOPROPANOL SOLUTION  
3, UN 1219, PG II

**DOT HAZARD CLASS:** 3

**IATA and IMO Proper Shipping Name:** UN 1219  
ISOPROPANOL SOLUTION  
3, PG II

**Placards / Markings:** FLAMMABLE LIQUID

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