

SAFETY DATA SHEET

PRODUCT NAME: LEF Hand Sanitizer

ISSUE DATE: 02/17/2021

1. IDENTIFICATION



PRODUCT NAME: LEF HAND SANITIZER

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: HAND SANITIZER

USES ADVISED AGAINST:

NOT TO BE INGESTED OR APPLIED ANYWHERE BUT EXTERNALLY. KEEP OUT OF REACH OF CHILDREN.

COMPANY IDENTIFICATION:

M Plus, LLC.

19 Wall Street

Passaic, New Jersey 07055

USA



EMERGENCY TELEPHONE NUMBER:

INFO:

(720) 675-8799

COMPANY TELEPHONE NUMBER: (720) 675-8799

2. HAZARDS IDENTIFICATION

CLASSIFICATION:

THIS CHEMICAL IS CONSIDERED HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.

RESPIRATORY SENSITIZATION: CATEGORY 1

SKIN SENSITIZATION: CATEGORY 1

FLAMMABLE LIQUIDS: CATEGORY 3

EMERGENCY OVERVIEW:

HAZARD STATEMENTS:

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES
If INHALED
MAY CAUSE AN ALLERGIC SKIN REACTION
HIGHLY FLAMMABLE LIQUID AND VAPOR
DANGEROUS FOR THE ENVIRONMENT (IN BULK)

FLAME
HEALTH HAZARD
ENVIRONMENT

APPEARANCE: CLEAR, TMS

PHYSICAL STATE: GEL

ODOR: Alcohol

PRECAUTIONARY STATEMENTS:

KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES - NO SMOKING
KEEP CONTAINER TIGHTLY CLOSED
USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING EQUIPMENT
USE ONLY NON-SPARKING TOOLS
TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE
STORE IN A WELL-VENTILATED PLACE. KEEP COOL.

MAY BE IRRITATING TO SKIN AND EYES.

INHALATION/INGESTION:

MAY CAUSE GASTROINTESTINAL IRRITATION, DIARRHEA, AND/OR OTHER
IRREGULAR RESPIRATORY SYMPTOMS.

CHRONIC HEALTH EFFECTS: NONE KNOWN.

MEDICAL CONDITIONS RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:
PRE-EXISTING CONDITIONS.

3. COMPOSITION/INFORMATION ON INGREDIENTS



MIXTURE:

CHEMICAL NAME	COMMON NAME/SYNONYMS	CAS #	CONCENTRATION (% BY VOLUME)
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ETHANOL ETHYL ALCOHOL, ALCOHOL DENAT. 64-17-5 70.00%

4. FIRST-AID MEASURES



FIRST-AID MEASURES:

SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.

INHALATION:

MAY CAUSE ALLERGIC RESPIRATORY REACTION. REMOVE TO FRESH AIR. AVOID DIRECT CONTACT WITH SKIN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. USE BARRIER TO GIVE MOUTH-TO-MOUTH RESUSCITATION. SEEK IMMEDIATE MEDICAL ATTENTION/ADVICE.

EYE CONTACT:

FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. KEEP EYES OPEN. DO NOT RUB AFFECTED AREA. IF IRRITATION CONTINUES, CONTACT A PHYSICIAN.

SKIN CONTACT:

MAY CAUSE AN ALLERGIC SKIN REACTION. REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH WATER AND SOAP. IF IRRITATION CONTINUES OR AN ALLERGIC REACTION OCCURS, CONTACT A PHYSICIAN.

INGESTION:

MAY PRODUCE AN ALLERGIC REACTION. DO NOT INDUCE VOMITING. RINSE MOUTH IMMEDIATELY AND DRINK PLENTY OF WATER TO DILUTE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

SELF-PROTECTION OF THE FIRST AIDER:

ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF MATERIAL(S) INVOLVED. TAKE PRECAUTIONS TO PROTECT ONESELF AND PREVENT SPREAD OF CONTAMINATION. AVOID CONTACT WITH EYES. AVOID DIRECT CONTACT WITH SKIN. USE BARRIER TO GIVE MOUTH-TO-MOUTH RESUSCITATION. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. WEAR PERSONAL PROTECTIVE CLOTHING. REMOVE ALL SOURCES OF IGNITION.

MOST IMPORTANT SYMPTOMS AND EFFECTS (ACUTE/DELAYED):

ITCHING. RASHES. HIVES. MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED. COUGHING AND/OR WHEEZING.

NOTES TO PHYSICIAN:

MAY CAUSE SENSITIZATION OF SUSCEPTIBLE PERSONS. TREAT

SYMPTOMATICALLY.

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT. DRY CHEMICAL. CARBON DIOXIDE (CO₂). WATER SPRAY. ALCOHOL RESISTANT FOAM.

UNSUITABLE EXTINGUISHING MEDIA:

CAUTION: USE OF WATER SPRAY WHEN FIGHTING FIRE MAY BE INEFFICIENT.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

PRODUCT IS OR CONTAINS A SENSITIZER. MAY CAUSE SENSITIZATION BY SKIN CONTACT. MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT. RISK OF IGNITION. KEEP PRODUCT AND EMPTY CONTAINER AWAY FROM HEAT AND SOURCES OF IGNITION. IN THE EVENT OF FIRE, COOL EXPOSED TANKS WITH WATER SPRAY. FIRE RESIDUES AND CONTAMINATED FIRE EXTINGUISHING WATER MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.

HAZARDOUS COMBUSTION PRODUCTS: CARBON OXIDES

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: NO
SENSITIVITY TO STATIC DISCHARGE: YES

FIREFIGHTING PROCEDURES:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: AVOID CONTACT WITH EYES. ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK.

ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). PAY ATTENTION TO FLASHBACK. TAKE

PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.
ALL EQUIPMENT USED WHEN HANDLING THE PRODUCT MUST BE
GROUNDED. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL.

VENTILATE THE AREA. IN CONFINED POORLY VENTILATED AREAS USE OF
MSHA/NIOSH-APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED.

ENVIRONMENTAL PRECAUTIONS:

REFER TO PROTECTIVE MEASURES LISTED IN SECTIONS 7 AND 8. PREVENT
FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. PREVENT PRODUCT
FROM ENTERING DRAINS.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

METHODS FOR CONTAINMENT:

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT
TOUCH OR WALK THROUGH SPILLED MATERIAL. KEEP OUT OF DRAINS,
SEWERS, DITCHES, AND WATERWAYS.

METHODS FOR CLEANING UP:

DAM UP. SOAK UP WITH INERT, NON-COMBUSTIBLE
ABSORBENT MATERIAL. KEEP IN SUITABLE, CLOSED
CONTAINERS FOR DISPOSAL.

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL
REGULATIONS.

7. STORAGE AND HANDLING



PRECAUTIONS FOR SAFE HANDLING:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY
PRACTICE. AVOID CONTACT WITH EYES. IN CASE OF INSUFFICIENT
VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. DO NOT EAT,
DRINK OR SMOKE WHEN USING THIS PRODUCT. TAKE OFF CONTAMINATED
CLOTHING AND WASH BEFORE REUSE. AVOID BREATHING VAPORS OR
MISTS. KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. NO
SMOKING. USE GROUNDING AND BONDING CONNECTION WHEN TRANSFERRING
THIS MATERIAL TO PREVENT STATIC DISCHARGE, FIRE, OR EXPLOSION.
USE WITH LOCAL EXHAUST VENTILATION. USE SPARKPROOF TOOLS AND
EXPLOSION PROOF EQUIPMENT. KEEP IN AN AREA EQUIPPED WITH
SPRINKLERS. USE ACCORDING TO PACKAGE LABEL INSTRUCTIONS.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORAGE:

KEEP CONTAINERS TIGHTLY CLOSED IN A DRY, COOL, WELL-VENTILATED PLACE. KEEP IN PROPERLY LABELED CONTAINERS. STORE LOCKED UP. KEEP OUT OF THE REACH OF CHILDREN. KEEP AWAY FROM HEAT, SPARKS, FLAME, AND OTHER SOURCES OF IGNITION. DO NOT STORE NEAR COMBUSTIBLE MATERIALS. KEEP IN ARE EQUIPPED WITH SPRINKLERS. STORE IN ACCORDANCE WITH THE PARTICULAR NATIONAL REGULATIONS. STORE IN ACCORDANCE WITH LOCAL REGULATIONS.

INCOMPATIBLE PRODUCTS: NONE KNOWN BASED ON INFORMATION SUPPLIED.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



EXPOSURE LIMITS:

CHEMICAL NAME	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
ETHANOL	N/AV	1000 PPM	1000 PPM (1900 MG/M3)	N/AV

APPROPRIATE ENGINEERING CONTROLS:

ENGINEERING MEASURES:

SHOWERS

EYEWASH STATIONS

VENTILATION SYSTEMS (LOCAL EXHAUST FAN)

INDIVIDUAL PROTECTION MEASURES:

EYE/FACE PROTECTION:

NONE REQUIRED FOR CONSUMER USE. IN GENERAL, THE USE OF SAFETY GLASSES IS RECOMMENDED. IF SPLASHING MAY OCCUR, THE USE OF SPLASH GOGGLES OR FACE SHIELD IS RECOMMENDED.

SKIN/BODY PROTECTION:

NONE REQUIRED FOR CONSUMER USE. ENSURE THE PROPER USE OF UNIFORMS AND GLOVES AS WELL AS ANY GMP AND/OR FACTORY MANDATED PROTECTIVE EQUIPMENT (APRONS, GLOVES, BOOTS, ETC.).

RESPIRATORY PROTECTION:

IN WELL VENTILATED AREAS, RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN CONFINED, POORLY VENTILATED AREAS, THE USE OF NIOSH-APPROVED RESPIRATORY PROTECTION OR EVACUATION MAY BE REQUIRED.

HYGIENE MEASURES:
HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: CLEAR

PHYSICAL STATE: GEL

COLOR: UNCOLORED

ODOR: UNFRAGRANCED

ODOR THRESHOLD: N/A

PERCENT FRAGRANCE: N/A

PH: N/A

SPECIFIC GRAVITY (25'C): 0.85 - 0.91

PERCENT V/V. VOC: 70%

VOC: ETHYL ALCOHOL CAS # 64-17-5

VISCOSITY: N/A

WATER SOLUBILITY: SLIGHTLY MISCIBLE

FLASH POINT: 74F / 23C

BOILING POINT/RANGE: N/A

EVAPORATION RATE: N/A

FLAMMABILITY: 3

FLAMMABILITY LIMIT IN AIR N/A

UPPER FLAMMABILITY LIMIT: N/A

LOWER FLAMMABILITY LIMIT: N/A

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

SOLUBILITY IN OTHER SOLVENTS: N/A

PARTITION COEFFICIENT N-OCTANOL/WATER: N/A

AUTOIGNITION TEMPERATURE: N/A

DECOMPOSITION TEMPERATURE: N/A

EXPLOSIVE PROPERTIES: N/A

OXIDIZING PROPERTIES: N/A

10. STABILITY AND REACTIVITY



REACTIVITY: NO DATA AVAILABLE

CHEMICAL STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS

POSSIBILITY OF HAZARDOUS REACTIONS:
NONE UNDER NORMAL PROCESSING AND STORAGE.

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR.

CONDITIONS TO AVOID: HEAT, FLAMES, AND SPARKS.

INCOMPATIBLE MATERIALS: NONE KNOWN BASED ON INFORMATION SUPPLIED.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES

11. TOXICOLOGICAL INFORMATION



INFORMATION ON LIKELY ROUTES OF EXPOSURE:

PRODUCT INFORMATION:

INHALATION:

SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. MAY CAUSE SENSITIZATION OF SUSCEPTIBLE PERSONS.

EYE CONTACT:

SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE.

SKIN CONTACT:

SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE.

REPEATED OR PROLONGED SKIN CONTACT MAY CAUSE ALLERGIC REACTIONS WITH SUSCEPTIBLE PERSONS.

INGESTION:

SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. MAY CAUSE ADDITIONAL EFFECTS AS LISTED UNDER 'INHALATION'.

INFORMATION ON TOXICOLOGICAL EFFECTS:

SYMPTOMS:

ITCHING. RASHES. HIVES. SYMPTOMS OF ALLERGIC REACTION MAY INCLUDE RASH, ITCHING, SWELLING, TROUBLE BREATHING, TINGLING OF THE HANDS AND FEET, DIZZINESS, LIGHTHEADEDNESS, CHEST PAIN, MUSCLE PAIN, OR FLUSHING. COUGHING AND/OR WHEEZING.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

SENSITIZATION:

MAY CAUSE SENSITIZATION OF SUSCEPTIBLE PERSONS. MAY CAUSE SENSITIZATION BY SKIN CONTACT OR INHALATION.

MUTAGENIC EFFECTS: NO INFORMATION AVAILABLE.

CARCINOGENICITY:

ETHANOL HAS BEEN SHOWN TO BE CARCINOGENIC IN LONG-TERM STUDIES ONLY WHEN CONSUMED AS ALCOHOLIC BEVERAGE.

REPRODUCTIVE TOXICITY: NO INFORMATION AVAILABLE.

STOT - SINGLE EXPOSURE: NO INFORMATION AVAILABLE.

STOT - REPEATED EXPOSURE: NO INFORMATION AVAILABLE.

CHRONIC TOXICITY:
PROLONGED EXPOSURE MAY CAUSE CHRONIC EFFECTS. REPEATED CONTACT
MAY CAUSE ALLERGIC REACTIONS IN VERY SUSCEPTIBLE PERSONS.

TARGET ORGAN EFFECTS: SKIN. RESPIRATORY SYSTEM. EYES.

ASPIRATION HAZARD: NO INFORMATION AVAILABLE.

NUMERICAL MEASURES OF TOXICITY - PRODUCT INFORMATION: NOT
APPLICABLE

12. ECOLOGICAL INFORMATION



ECOTOXICITY:
THE ENVIRONMENTAL IMPACT OF THIS PRODUCT HAS NOT BEEN FULLY
INVESTIGATED.

PERSISTENCE AND DEGRADABILITY: NO INFORMATION AVAILABLE.

BIOACCUMULATION: NO INFORMATION AVAILABLE.

OTHER ADVERSE EFFECTS: NO INFORMATION AVAILABLE.

13. DISPOSAL CONSIDERATIONS



WASTE TREATMENT METHODS:

DISPOSAL METHODS:
THIS MATERIAL, AS SUPPLIED, IS A HAZARDOUS WASTE ACCORDING TO
FEDERAL REGULATIONS (40 CFR 261).

CONTAMINATED PACKAGING:
DISPOSE OF CONTENTS/CONTAINERS IN ACCORDANCE WITH LOCAL
REGULATIONS.

US EPA WASTE NUMBER: D001

14. TRANSPORT INFORMATION



LAND (US DOT): GROUND TRANSPORT - ORM-D

AIR (IATA): ID-8000, CLASS 9, LIMITED QUANTITY

WATER (IMDG/IMO): UN1266, CLASS 3, PACKAGING GROUP III, LIMITED QUANTITY

15. REGULATORY INFORMATION



UNITED STATES:

TOXIC SUBSTANCES CONTROL ACT (TSCA):
COMPONENTS ARE FOR USE ONLY IN FORMULATING COSMETIC PRODUCTS AND
THUS, ARE EXEMPT FROM TSCA REGULATIONS.

FIFRA LISTING OF PESTICIDE CHEMICALS (40 CFR 180):
NOT REGISTERED IN THE US UNDER FIFRA

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III:

HAZARD CATEGORIES SECTIONS 311 / 312 (40 CFR 270.2):
HEALTH: NONE ESTABLISHED
PHYSICAL: NONE ESTABLISHED

EMERGENCY PLANNING & COMMUNITY RIGHT TO KNOW (40 CFR 355,APP.A):

EXTREMELY HAZARDOUS SUBSTANCE SECTION 302 - THRESHOLD PLANNING
QUANTITY:
SARA III THRESHOLD PLANNING QUANTITY: NONE ESTABLISHED

REPORTABLE QUANTITY (49 CFR 172.101, APPENDIX):
CERCLA: NONE ESTABLISHED
SARA III REPORTABLE QUANTITY: NONE ESTABLISHED

SUPPLIER NOTIFICATION REQUIREMENTS (40 CFR 372.45), 313
REPORTABLE COMPONENTS:

SARA III DE MINIMIS CONCENTRATION:
1-(3-CHLOROALLYL)-3,5,7-TRIAZA-1-AZONIAADAMANTANE CHLORIDE

CLEAN AIR ACT TOXIC ARP SECTION 112R:
CAA 112R: NONE ESTABLISHED

CLEAN AIR ACT SOCMI:
HON SOC

US EPA HAZARDOUS ORGANIC NESHAP (HON) SYNTHETIC ORGANIC
CHEMICALS (40 CFR 63.100-.106, TABLE 1)

HON SOC

07 1999

CLEAN AIR ACT VOC SECTION 111:
CAA 111

US EPA CLEAN AIR ACT (CAA) SECTION 111 SOCMI INTERMEDIATE OR
FINAL VOLATILE ORGANIC COMPOUNDS (40 CFR 60.489)

CAA 111

01 1996

US EPA CLEAN AIR ACT (CAA) SECTION 111 SOCMI INTERMEDIATE OR
FINAL VOLATILE ORGANIC COMPOUNDS (40 CFR 60.489)

CAA 111

CLEAN AIR ACT HAZ, AIR POLLUTANTS SECTION 112:
CAA: NONE ESTABLISHED
CAA 112I: NONE ESTABLISHED
CAA AP: NONE ESTABLISHED

STATE RIGHT-TO-KNOW REGULATIONS STATUS OF INGREDIENTS:

NEW JERSEY:

CAS #	COMPONENT NAME
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US NEW JERSEY COMMUNITY RIGHT-TO-KNOW SURVERY, TABLE A:
NJ ENVIRONMENTAL HAZARDOUS SUBSTANCES LIST (NJ ADMIN. CODE TITLE
7 SECTION 1G-2.1)

NJ RTK

2001

WHMIS HAZARD CLASSIFICATION:

WHMIS:
CANADA. CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA). WHMIS

INGREDIENT DISCLOSURE LIST (CAN. GAZ., PART II, VOL. 122, NO. 2)

WHMIS

01 1988

16. OTHER INFORMATION



THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION, AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL, AND RELEASE AND IS NOT CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT.