



SAFETY DATA SHEET

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

Product name: AYF 1177™
Product code: 6512
Description: Liquid yeast nutrient complex
Product use: Fuel ethanol production
Supplier name and address: Lallemand Biofuels & Distilled Spirits
 6120 West Douglas Avenue
 Milwaukee, WI 53218
Information telephone: +1 (414) 393-0410
Emergency telephone: Contact your local doctor or hospital

SECTION 2- HAZARD IDENTIFICATION

Classification: **Classification according to Regulation (EC) 1272/2008 (CLP)**
 Hazard class: Respiratory sensitizer
 Hazard category: 1
 Hazard statement: H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Classification according to Directives 67/5481 EEC and 1999/45/EC (including amendments)
 Sensitizing, R42

Signal Word: Danger



Hazard Statements: H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements: P261 – Avoid Breathing vapors or sprays
 P284 – Wear respiratory protection
 P304 and P340 – IF INHALED: Remove person to fresh air
 P342 and P311 – If experiencing symptoms seek medical attention

Other Information: Repeated inhalation of enzyme aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Mild skin irritation and mild eye irritation are possible.

SECTION 3- DATA ON COMPONENTS

Ingredients	CAS #	% by Wt	EU Classification	EINECS	CLP Classification
Fungal enzyme	9025-49-4	Confidential	R42	232-877-2	Resp.Sens 1;H334
Glycerine	56-81-5	Confidential	N/A	200-289-5	N/A



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SECTION 4 – FIRST AID MEASURES (If any symptoms persist, seek medical attention)

Emergency and First aid procedures

Eye contact:	Flush eyes for at least 15-20 minutes. Remove contact lenses. Seek medical attention immediately
Skin contact:	Wash affected area with soap and water. Seek medical attention or advice if irritation persists
Inhalation:	Immediately remove person to fresh air. If allergic respiratory reaction or signs of toxicity occurs seek medical attention.
Ingestion:	In the event of swallowing, if the quantity is small (no more than one mouthful) rinse the mouth with water and consult a doctor if symptoms persist.

Most important symptoms and effects both acute and delayed.

Irritation of the eyes: with long term contact. Irritation of the skin: In sensitive individuals. Allergic reaction: in case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms. Respiratory distress: delayed effects from exposure can be expected. In certain cases symptoms may only appear after several hours.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically. If seeking medical attention provide SDS document to physician.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing media:	Use appropriate medium for underlying cause of fire
Advice for firefighters:	Wear self-contained breathing apparatus (SCBA) when exposed to confined or enclosed fires.
Hazardous combustion products:	Carbon dioxide and carbon monoxide. Acrolein at temperatures above 290°C (554°F)
Further information:	Avoid inhalation of combustion products

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, equipment and procedures:	Wear protective equipment. Avoid contact with skin and eyes. Contain the leaks or spills with non-combustible absorbent material such as sand, or diatomaceous earth.
Environmental precautions:	Use absorbent material to soak up the spill
Method and materials for containment and cleaning up:	Contain and control spills with absorbent material, scoop into suitable container for disposal according to local, federal and state regulations.

SECTION 7 – HANDLING & STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Wear protective equipment. Wash thoroughly after handling. Avoid handling if allergic to enzymes.
Storage:	Store in a cool dry area away from heat.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	Occupational exposure limits not determined
Engineering Controls:	Emergency eye wash fountains or safety showers should be available in the immediate vicinity of use/handling. Ensure good ventilation
Skin Protection:	Wear latex or other impervious gloves
Eye Protection:	Safety glasses with side shields or goggles
Respiratory Protection:	An approved NIOSH respirator should be worn when exposures are expected to be high.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Brown colored liquid
Odor:	Slight fermentation odor.
Viscosity:	40 cps
pH:	Not determined
Boiling point:	Not determined
Freezing point:	Not determined
Solubility in water:	Partially soluble



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SECTION 10– STABILITY AND REACTIVITY

Reactivity:	Stable under normal conditions of use and storage
Incompatibility:	Avoid contact with strong acids, bases and oxidizing agents
Conditions to avoid:	High temperatures
Hazardous reactions:	No dangerous reactions are known.
Hazardous decomposition products:	Thermal decomposition products may include carbon dioxide, carbon monoxide and acrolein at temperatures over 290°C

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicological information

Toxicity data:	Not determined
Local effects:	May cause eye and skin irritation
Sensitization:	Possible allergic sensitization (see Section 2).
Acute toxicity levels:	Not determined
Health effects delayed:	In certain cases respiratory distress may only appear after an extended period of time/several hours

SECTION 12 ECOLOGICAL INFORMATION

Toxicity to fish:	Not determined
Toxicity to daphnia:	Not determined
Persistence and degradability:	Not determined

SECTION 13– DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with Federal, State/Provincial and local regulations

SECTION 14 – TRANSPORT INFORMATION

Transportation by road (DOT/TDG): not a regulated product
 Transportation by sea (International Maritime Code for Dangerous Goods): not a regulated product
 Transportation by air (International Air Transport Association): not a regulated product

SECTION 15 – REGULATORY INFORMATION

SARA Section 313: None of the ingredients listed
 Proposition 65 (California): None of the ingredients listed
 Canadian Domestic Substances List (DSL): All ingredients listed

SECTION XVI – OTHER INFORMATION

SDS Date of Preparation: April 2018, Reviewed February 2021

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