

1. IDENTIFICATION

Product Identifier		Manufacture Name & Address
Chemical Name & Synonyms:	TRANSGLUTAMINASE	Ajinomoto North America, Inc
Trade Name & Synonyms:	ACTIVA® TI	One Ajinomoto Dr. , Eddyville, IA 52553
Chemical family:	ENZYME	Manufacturer's Telephone Number: 800-456-4666
Formula:	NOT APPLICABLE	Emergency's Telephone Number: 773-714-1431
CAS No.:		

2. HAZARD(S) IDENTIFICATION

Physical Hazard:	NOT APPLICABLE
Health Hazard	RESPIRATORY SENSITIZER
OSHA defined hazard	NONE
Label elements	
Signal word:	DANGER; WARNING
Hazard statement:	RESPIRATORY SENSITIZER; SKIN AND EYE IRRITANT
Precautionary Statement	MAY CAUSE ALLERGY OR ASTHMA LIKE SYMPTOMS; BREATHING DIFFICULTIES IF INHALED; MAY CAUSE SKIN AND EYE IRRITATIONS

3. COMPOSITION INFORMATION ON INGREDIENTS

Principal Components		Percent
MALTODEXTRIN	9050-36-6	
ENZYME	80146-85-6	

4. FIRST AID MEASURES

Inhalation :	EVACUATE THE AREA AND BREATHE FRESH AIR. IF SYMPTOMS OF SENSITIZATION OCCUR, SEEK MEDICAL ADVICE.
Eye contact:	IN CASE OF EYE CONTACT, WASH WITH LARGE AMOUNT OF WATER AND SEEK MEDICAL ADVICE.
Skin:	IN CASE OF SKIN CONTACT, WASH OFF WITH WATER . SHOULD IRRITATION OCCUR SEEK MEDICAL ADVICE.
Ingestion:	IN CASE OF INGESTION, DRINK PLENTY OF WATER. DO NOT INDUCE VOMITING
Most important symptoms/effects, acute and delayed	NONE
Indication of immediate medical attention and special treatment needed	
General information	NONE

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	DRY CHEMICAL, HALON, WATER SPRAY, FOAM
Unsuitable extinguishing media	NONE
Specific hazard arising from chemical	NONE
Special protective equipment and precautions for fire fighters	NONE
Fire fighting equipment/ instructions	NONE

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	AVOID EYE AND SKIN CONTACT, ENHALATION AND INGESTION
Protective equipment	USE RUBBER GLOVES, SAFETY GOOGLES AND DUST MASK
Emergency procedure	ORDINARY CLEANUP PROCEDURES
Methods and materials for containment and clean up	VACUUM OR SWEEP IN SUITABLE CLEAN DRY CONTAINER FOR RECALAMTION

7. HANDLING AND STORAGE

Precaution for safe handling:	DUST EXPLOSION POTENTIAL
--------------------------------------	--------------------------

Conditions for safe storage, including any incompatibilities

KEEP AWAY FROM HIGH HEAT AND MOISTURE

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA Exposure limits	NOT AVAILABLE
US ACGIH Threshold Limit Value(TLV)	NOT AVAILABLE
Appropriate engineering controls	NOT AVAILABLE
Individual protection measures, such as personal protective equipment	
Eye/face protection	WEAR APPROPRIATE SAFETY GOOGLES
Skin protection	IRRITATION POTENTIAL, WEAR APPROPRIATE CLOTHING
Hand protection	IRRITATION POTENTIAL, WEAR APPROPRIATE GLOVES
Other	NOT AVAILABLE
Respiratory protection	RESPIRATORY SENSITIZER, WEAR APPROPRIATE PROTECTION
Thermal Hazard	NOT APPLICABLE
General hygiene considerations	WASH HANDS, FOREARMS OR FACE AFTER HANDLING PRODUCT BEFORE EATING AND DRINKING, SMOKING AND USING THE LAVATORY

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	WHITE POWDER	Explosive limit-lower (%):	NOT APPLICABLE
Physical		Explosive limit-upper (%):	NOT APPLICABLE
State	POWDER	Vapor pressure:	NOT APPLICABLE
Color	WHITE	Vapor density:	NOT APPLICABLE
Odor	SLIGHT ODOR	Relative density:	NOT AVAILABLE
Odor threshold	NOT APPLICABLE	Solubility	
pH	NOT AVAILABLE	Solubility (water):	SOLUBLE
Melting point/Freezing point	NOT APPLICABLE	partition coefficient (n-octanol/water) :	
Initial boiling point and boiling point	NOT APPLICABLE	Auto-ignition temperature:	NOT APPLICABLE
Flash point	NOT AVAILABLE	Decomposition temperature:	NOT APPLICABLE
Evaporation rate	NOT APPLICABLE	Viscosity:	NOT APPLICABLE
Flammability (solid, gas)	NOT APPLICABLE	Other information	
Upper/lower flammability or explosive limits		Bulk density:	NOT AVAILABLE
Flammability limit-lower (%)	NOT APPLICABLE	Molecular formula :	NOT APPLICABLE
Flammability limit-upper (%)	NOT APPLICABLE	Molecular weight:	NOT APPLICABLE
		pH in aqueous solution:	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Reactivity	
Chemical stability	STABLE
Possibility of hazardous reactions	NOT LIKELY TO OCCUR
Condition to avoid (static discharge, shock or vibration)	NOT AVAILABLE
Incompatible materials	NOT AVAILABLE
Hazardous decomposition products	NONE

11. TOXICOLOGICAL INFORMATION

Information on likely route of exposure	
Inhalation	LIKELY ROUTE
Skin contact	LIKELY ROUTE
Eye contact	LIKELY ROUTE
Ingestion	LIKELY ROUTE
Symptoms related to the physical, chemical and toxicological characteristics	NOT AVAILABLE
Information on toxicological effects	NOT AVAILABLE
Acute toxicity	GENERALLY REGARDED AS SAFE INGREDIENTS
Skin corrosion/irritation	MAU CAUSE SKIN IRRITATION

Serious eye damage/eye irritation	MAY CAUSE EYE IRRITATION
Respiratory or skin sensitization	
Respiratory sensitization	MAY CAUSE RESPIRATORY IRRITATION
Skin sensitization	MAY CAUSE SKIN IRRITATION
Germ cell mutagenicity	NON MUTAGENIC
Carcinogenicity	NON CARCINOGENIC
IARC Monograph	NOT ON IARC MONOGRAPH
OSHA specifically regulated products	NOT OSHA REGULATED PRODUCT
Reproductive toxicity	NOT REPRODUCTIVE TOXICANT
Specific target organ toxicity single exposure	GENERALLY RECOGNIZED AS SAFE INGREDIENTS
Specific target organ toxicity reported exposure	GENERALLY RECOGNIZED AS SAFE INGREDIENTS
Aspiration hazard	NOT AVAILABLE

12. ECOLOGICAL INFORMATION

Ecotoxicity:	NOT AVAILABLE
Persistence and degradability	NOT AVAILABLE
Bioaccumulative potential	NOT AVAILABLE
Partition coefficient n-octanol/ water (log Kow)	NOT AVAILABLE
Mobility in soil:	NOT AVAILABLE
Other adverse effects	NOT AVAILABLE

13. DISPOSAL CONSIDERATIONS

Disposal instructions	DISPOSE OF IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY REGULATIONS.
Local disposal regulations	DISPOSE OF IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY REGULATIONS.
Hazardous waste code	NONE
Waste from residues/ unused product	DISPOSE OF IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY REGULATIONS.
Contaminated packaging	DISPOSE OF IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY REGULATIONS.

14. TRANSPORT INFORMATION

DOT	NOT APPLICABLE
IATA	NOT APPLICABLE
IMDG	NOT APPLICABLE

THIS PREPARATION IS NOT A DANGEROUS GOOD WITHIN A MEANING OF TRANSPORTATION REGULATION.

15. REGULATORY INFORMATION

GENERALLY RECOGNIZED AS SAFE FOOD INGREDIENT

16. OTHER INFORMATION

The format in this Safety Data Sheet may be comply with OSHA's Hazard Communication Standard 29 CFR 1910.1000.

The information presented in good faith and believed to be correct as of the date hereof. Ajinomoto North America, Inc. (AJINA) AJINA makes no representations as to the completeness or accuracy thereof. In no event will AJINA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information

Last Revised: 03-26-15

Supersedes: 06-25-14