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X-Gal, Ultra Pure Grade

Section 1. Identification

Product Identifier

Catalog Number: X1205

Recommended use of the chemical and restrictions on use

For research use only. Not intended for human or animal diagnostic or therapeutic uses

Manufacture/Supplier Details: Alpha Teknova, Inc.

2290 Bert Dr. Hollister, CA 95023

Telephone Number: 831-637-1100

Emergency Telephone Numbers

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2. Hazard Identification

Classification of the substance/mixture: Is a hazardous substance or mixture.

GHS Label elements, including precautionary statements

The substance is classified and labeled according to the Globally Harmonized System (GHS). Is a hazardous substance or mixture.



Pictogram:

Hazard statements: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled

Signal word: Warning

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/

face protection. IF WALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

HMIS rating (Scale 0-4):

Precautionary Statements:

HEALTH	1
FIRE	0
REACTIVITY	0

NFPA Rating:



Hazards not otherwise classified:

None



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Section 3. Composition/Information On Ingredients

Chemical Name	Identifiers	Hazardous	Approximate Percentage %
X-Gal	CAS : 7240-90-6	hazardous	100%

Chemical Characterization: Mixture

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 4. First-Aid Measures

Description of necessary measures

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If

unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops Skin:

or persists

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any Eye:

contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Ingestion: Do not induce vomiting. Get medical attention if adverse health effects develop or persist.

Most important symptoms/effects, acute and delayed

No further relevant information available

Indication of any immediate medical attention and special treatment needed

All treatment should be based on observed sign and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5. Fire Fighting Measures

This is a nonflammable powder Extinguishing media:

Use an extinguishing agent suitable for the surrounding fire. Suitable extinguishing media:

None known Unsuitable Extinguishing:

Special hazards arising from the substance or mixture

No specific fire or explosion hazard Unusual fire and explosion hazards: None known Hazardous Combustions products:

Wear suitable protective clothing to prevent contact with skin and eyes Special protective equipment and precautions

and self contained breathing apparatus. for the fire-fighters

Section 6. Accidental Release Measures



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Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental precautions

Avoid run off to waterways and sewers.

Methods and materials for containment and cleaning up

Absorb with liquid-binding material.

Dispose contaminated material as waste according to item 13.





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Section 7. Handling And Storage

system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated Precautions for safe handling:

area. Keep away from sources of ignition. Avoid prolonged or

Use in a chemical fume hood, with air supplied by an independent

repeated exposure.

Conditions for safe storage, including and incompatibilities

Storage:

Keep labeled container tightly closed and upright. Keep frozen.

Incompatible materials or Ignition sources: Keep away from strong oxidizers.

Section 8. Exposure Controls/Personal Protection

Control parameters

Contains no substances with occupational exposure limit values. Occupational exposure Limit values:

Appropriate engineering controls: General industrial hygiene practice.

Personal protective equipment

Face shield and safety glasses. Use equipment for eye protection tested and approved under Eye protection:

appropriate government standards such as NIOSH (US) or EN 166(EU).

Protective gloves. The glove material has to be impermeable and resistant to the product/the Hand Protection:

substance/ the preparation.

None required under normal conditions of use Respiratory Protection:

Section 9. Physical And Chemical Properties

Appearance Powder Odor none

Odor Threshold no data available рΗ no data available Melting point/freezing point no data available Initial boiling point & boiling range no data available Flash point no data available Evaporation rate no data available Flammability (solid, gas) no data available Partition coefficient no data available Vapor pressure no data available Vapor density no data available Relative density (water) no data available Solubility Soluble in water Upper/lower flammability or explosive limits no data available Auto-ignition temperature no data available no data available Decomposition temperature Viscosity no data available



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Other information: None	

Section 10. Stability And Reactivity

No specific test data related to reactivity available for this product or its ingredients Reactivity:

Stable under recommended storage conditions. Chemical stability

Possibility of hazardous reactions Under normal conditions of storage and used, hazardous reactions should not occur.

No specific data Conditions to avoid

No specific data Incompatible materials

Under normal conditions of storage and used, hazardous decomposition products should not be Hazardous decomposition products:

Section 11. Toxicological Information

Information on toxicological effects **Acute toxicity**

Product/Ingredient Name	CAS	Result	Species	Dose	Exposure
X-Gal, Ultra Pure Grade	-	-	-	-	-

Irritation/Corrosion

Product/Ingredient Name	Result	Species	Score	Exposure/Observation
X-Gal, Ultra Pure Grade	-	-	-	-

Not available Sensitization:

Not available Mutagenicity:

Carcinogenicity

Product/Ingredient Name	OSHA	IARC	NTP
X-Gal, Ultra Pure Grade	None of the ingredients listed	None of the ingredients listed	None of the ingredients listed

Not available Reproductive toxicity:

Teratogenicity: Not available

Specific target organ toxicity- single exposure Not available

Specific target organ toxicity- repeated exposure Not available

Not available Aspiration Hazard



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Information on the likely routes of exposure

Routes of entry anticipated: Oral

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Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data

Inhalation: No specific data

Skin contact:No specific dataIngestion:No specific dataAspiration HazardNo specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

No known significant effects or critical hazards.

Numerical measures of toxicity

Not available

Section 12. Ecological Information

Toxicity

Product/ingredient name	Result	Species	Exposure
X-Gal, Ultra Pure Grade	-	-	-

Persistence and degradability: Not available

Bioaccumulative potential Not available

 Mobility in soil
 Not available

 Other adverse effects
 Not available

Aspiration Hazard No known significant effects or critical hazards.

Section 13. Disposal Considerations

Waste treatment methods

Product waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations

Packaging waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations





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Section 14. Transport Information

	UN Number	UN proper shipping name	Transport hazard class(es)	Packaging group	Environmental Hazards
DOT	Not regulated	-	-	-	none
IMDG	Not regulated	-	-	-	none
IATA	Not regulated	-	-	-	none

Transport in bulk according to Annex II of Marpol 73/78 and the IBC code

This product is provided only in non-bulk containers

Special Precautions for user

None specified

Section 15. Regulatory Information





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Safety health and environmental regulations/ legislation specific for the substance or mixture

Sara Not applicable

Section 355 (Extremely hazardous substances) Substance is not listed Section 313 (Specific toxic chemical listings) Substance is not listed

SARA 311/312 Hazards No SARA Hazards

TSCA (Toxic substances control act)

Proposition 65:

Chemicals known to cause cancer

Chemicals known to cause reproductive toxicity

or females

Chemicals known to cause reproductive toxicity for males

Chemicals known to cause developmental toxicity

Carcinogenic categories

EPA (Environmental protection agency)

TLV (Threshold limit value established by ACGIH)

NIOSH-CA (National institute for occupational safety and health)

OSHA-CA (occupational safety & health administration)

GHS label elements

Hazard pictograms

Decomposition temperature

Viscosity Signal Word

Hazard-determining components of labeling

Hazard statements

Precautionary statements

National regulations State right to know

Chemical safety assessment

Substance is not listed

The product is classified and labeled according to the Globally

Harmonized System (GHS).



Not applicable

Not applicable

Warning

Not applicable

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doctor/physician if you feel unwell.

Substance is not listed

Substance is not listed

A Chemical Safety Assessment has not been carried out.



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Section 16. Other Information

Disclaimer/Statement of Liability: The information contained herein is believed to be accurate but is not warranted to be so. Data and calculation are based on information furnished by the manufacturers of the components of the product. Uses are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in section 1.

Warranty

The above information is believed to be correct but does not purport to Be all inclusive and shall be used only as a guide. Teknova, inc. Shall not be held liable for any damage resulting from handling or from contact with the above product.

Teknova, inc.

Key to abbreviations: NDA= No data available