
Section 1. Chemical Product and Company Identification

PRODUCT NAME: Anti-HER2 Affibody® Imaging Agent

PRODUCT NUMBERS(S): 10.1861.01.0001; 10.186101.0005

SUPPLIER NAME & ADDRESS: Affibody AB, Scheeles Väg 2, 171 65 Solna, Sweden

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MSDS NUMBER BTP-MSDS-008

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications

2. Composition

INGREDIENT NAME:	% CONTENT:	CAS NUMBER:	EC NUMBER:	MOLECULAR WEIGHT
Anti- HER2 Affibody® Imaging Agent	> 90	Not available	Not available	6.9 kDa
NH ₄ HCO ₃ (ammonium hydrogencarbonate)	< 0.1	1066-33-7	213-911-5	79.05

3. Hazards Identification

CAUTION! The toxicological properties have not been fully investigated.

APPEARANCE: White powder.

TARGET ORGANS None known

EYES: May cause irritation to the eyes.

SKIN: May cause irritation to the skin

INHALATION: May cause irritation to the lungs, upper respiratory tract and nose.

INGESTION: May cause significant irritation to the digestive tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

4. First aid Measures

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

INGESTION: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

SKIN CONTACT: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

EYE CONTACT: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

NOTES TO PHYSICIAN: Not available

PROTECTION OF FIRST-AIDERS: Not available

5. Fire Fighting Measures

FLAMMABILITY OF THE PRODUCT: May be combustible at high temperature.

SUITABLE EXTINGUISHING MEDIA: SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam.

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet

SPECIAL HAZARDS IN FIRE: Not available

REQUIRED SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Use an approved/certified respirator or equivalent.
HAZARDOUS THERMAL (DE)COMPOSITION PRODUCTS: Not available

6. Accidental Release Measures

PERSONAL PRECAUTIONS: Safety glasses. Lab coat.

ENVIRONMENTAL PRECAUTIONS AND METHODS FOR CLEANING: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

7. Handling and Storage

HANDLING: Avoid breathing dust.

STORAGE: Keep container tightly closed. Keep container in a cool, well-ventilated area. Use original container.

8. Exposure Controls

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

OCCUPATIONAL EXPOSURE LIMITS: Not available

PERSONAL PROTECTION EQUIPMENT:

HAND PROTECTION:

Lab coat



Protective gloves



EYE PROTECTION:

Safety glasses



9. Physical and Chemical Properties

PHYSICAL STATE AND APPEARANCE: White powder

ODOUR: None reported

TASTE: Not available

MELTING POINT: Not available

FLASHPOINT: Not available

EXPLOSIVE PROPERTIES: Not available

SOLUBILITY: Soluble in water

10. Stability and Reactivity

STABILITY AND REACTIVITY: The product is stable under normal ambient conditions of temperature and pressure.

CONDITIONS TO AVOID: Heat

MATERIALS TO AVOID: Strong Oxidizers

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of both Carbon and Nitrogen

11. Toxicological Information

SUBSTANCE:	NH ₄ HCO ₃	Anti-HER2 Affibody [®] Imaging Agent
ACUTE DERMAL LD₅₀:	Not dermally toxic LD ₅₀ <5000 mg/kg	Not Available
ACUTE ORAL LD₅₀:	Acute oral LD ₅₀ (rat) = 1237 mg/kg	Not Available
ACUTE INHALATION LC₅₀:	Not Available	Not Available
EYE EFFECTS:	Mildly irritating to unwashed eyes (rabbit). Irritation cleared by 72 hours. No corneal involvement	This material may cause irritation to the eyes.
SENSITIZATION:	Not Available	Not Available
TARGET ORGANS:	Not Available	Not Available
CARCINOGENICITY:	Not listed by IARC, USA NTP, or USA OSHA.	Not Available

12. Ecological Information

SUBSTANCE:	NH ₄ HCO ₃	Anti-HER2 Affibody [®] Imaging Agent
CAS #	1066-33-7	Not available
PERSISTENCE/DEGRADABILITY	Not available	Not available
BIOACCUMULATIVE POTENTIAL:	Not available	Not available

13 Disposal Considerations

WASTE INFORMATION: Waste must be disposed of in accordance with national and local environmental control regulations. Consult your local or regional authorities.

14. Transport Information

Contact the supplier for all information regarding the proper transportation method for this material.

Not restricted according to the criteria in IATA-DGR

15. Regulatory Information

EU REGULATIONS

This chemical substance is not classified in the Annex I of Directive 67/548/EEC.

HAZARD SYMBOL(S): Not applicable

RISK PHRASES: This product is not classified according to the EU regulations

SAFETY PHRASES: Not applicable

US REGULATIONS

OSHA: Not controlled under the HCS (United States).

EPA: Not available.

CANADIAN REGULATIONS

WHMIS: Not controlled under WHMIS (Canada)

CEPA: No products were found

16. Other Information

REFERENCES:

HISTORY OF DOCUMENT CHANGES: Version 1.0

HAZARDOUS MATERIAL INFORMATION SYSTEM (USA):

Health	0
Fire Hazard	0
Reactivity	0
Personal Protection	a

NATIONAL FIRE PROTECTION ASSOCIATION (USA):



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