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## Safety data sheet according to 1907/2006/EC, Article 31

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## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

#### · 1.1 Product identifier

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· Synonyms:

4-Amino-2-(ethoxymethyl)-a,a-dimethyl-1H-imidazo[4,5-c]quinoline-1-ethanol Resiquimod

· Article number: NBP2-26231

· CAS Number: 144875-48-9

- 1.2 Relevant identified uses of the substance or mixture For research use only
- · Application of the substance / the preparation: Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

10771 E Easter Ave Centennial, CO 80112 U.S.A. technical@novusbio.com

· Further information obtainable from:

Customer service
During normal business hours.

U.S. 1-888-506-6887

· 1.4 Emergency telephone number:

U.S. 1-888-506-6887

## **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the CLP regulation.

### · 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008: Not Regulated

· Hazard pictograms: Not Regulated

· Signal word: Not Regulated

· Hazard statements: Not Regulated

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT**: Not applicable.

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· **vPvB**: Not applicable.

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## **SECTION 3: Composition/information on ingredients**

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description: 144875-48-9 R-848
- · Identification number(s):

### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Remove contaminated clothing.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After ingestion: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

In case of accident, seek medical advice immediately and show the label and the MSDS where possible.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective clothing.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- · 6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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## **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling: No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat, sources of ignition and incompatibles such as oxidizing agents.

- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store tightly sealed in a cool, dry and well ventilated location (see label for storage temperature and additional specific information).

· Information about storage in one common storage facility:

Do not store in warm environment or in contact with flammable or oxidizing substances.

· Further information about storage conditions:

Store under lock and key and with access restricted to technical experts or their assistants only.

· 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- · Respiratory protection: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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## · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye Protection:



SECTION 9: Physical and chemical properties		
· 9.1 Information on basic physical and chemical properties		
· General Information		
· Appearance:		
Form:	Solid	
Colour:	Off-white	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gas):	Product is not flammable.	
Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Not determined.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not applicable.	
Density:	Not determined.	
Relative density	Not determined.	
· Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Not determined.	
Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	

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· 9.2 Other information

No further relevant information available.

## **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability:

Stable. Avoid strong oxidizing agents.

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· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- · 10.4 Conditions to avoid: No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation
- · Serious eye damage/irritation
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability: No further relevant information available.
- · 12.3 Bioaccumulative potential: No further relevant information available.
- · 12.4 Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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### · 12.5 Results of PBT and vPvB assessment

- · **PBT:** Not applicable. · **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- · Recommendation:

All waste must be handled in accordance with local, state and federal regulations. This material and its container must be disposed of in a safe way.

SECTION 14: Transport information		
· <u>14.1 UN-Number</u> · ADR, IMDG, IATA	Not Regulated	
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Not Regulated	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Not Regulated	
· 14.4 Packing group · ADR, IMDG, IATA	Not Regulated	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user:	Not applicable.	
• 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:  Not applicable.		
· UN "Model Regulation":	Not Regulated	

## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Not for drug, household or other uses.

### · Relevant phrases

To the best of our knowledge, the information contained herein is accurate and up to date based on our current knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Neither Novus Biologicals, nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. It is the sole responsibility of the user to make a final determination as to the suitability of the material within. All materials could potentially present unknown hazards and should be used with caution.

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

EU