

Material Safety Data Sheet

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1.1

Section 1- Product Information

Product Name: 4-1BB Receptor/TNFRSF9, Human Product Z02933-5, Z02933-20, Z02933-1 Cat. No.:

Section 2- Composition / Information on Ingredients

Substance / Preparation: Substance

4-1BB Receptor/TNFRSF9, Human Ingredient Name

CAS No. No **SARA 313** Nο

Section 3- Hazards Identification

HMIS Rating Health 0 Flammability 0 Reactivity 0 NFPA Rating 0 Health 0 Flammability Reactivity 0

For additional information on toxicity, please refer to Section 11.

Section 4- First Aid Measures

Oral Exposure If swallowed, wash out mouth with water provided person is conscious. Call a

Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure In case of skin contact, flush with copious amounts of water for at least 15 minutes.

Remove contaminated clothing and shoes. Call a physician.

Eye Exposure In case of contact with eyes, flush with copious amounts of water for at least 15

minutes. Assure adequate flushing by separating the eyelids with fingers. Call a

physician.

Section 5- Fire Fighting Measures

Flash Point Not available **Autoignition Temp** Not available Flammability Not available

Extinguishing Media

Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Fire Fighting

Protective Equipment Wear self-contained breathing apparatus and protective clothing to prevent contact

with skin and eves.

Emits toxic fumes under fire conditions Specific Hazard(s)

Section 6- Accidental Release Measures

Procedure to Be Followed in Case of Evacuate area

Leak or Spill

Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

Ventilate area and wash spill site after material pickup is complete.

Section 7- Handling and Storage

Handling

User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or

repeated exposure.

This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long Storage

term storage, preferably desiccated.



Section 8- Exposure Controls/Personal Protection Equipment

Engineering Controls Mechanical exhaust required

Personal Protective Equipment

Respiratory Use respirators and components tested and approved under appropriate

government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type

N95 (US) or type P1 (EN 143) respirator.

Other Wear appropriate government approved respirator, chemical-resistant gloves, safety

goggles, other protective clothing.

General Hygiene Measures Wash thoroughly after handling

Section 9- Physical and Chemical Properties

Appearance

Physical State Lyophilized powder

Property

Molecular Weight ~17.7 kDa Hq Not available BP/BP Range Not available MP/MP Range Not available Freezing Point Not available Vapor Pressure Not available Vapor Density Not available Saturated Vapor Conc. Not available SG/Density Not available **Bulk Density** Not available Odor Threshold Not available Volatile% Not available Not available **VOC Content** Water Content Not available Solvent Content Not available Not available **Evaporation Rate** Viscosity Not available Surface Tension Not available Partition Coefficient Not available Not available Decomposition Temp. Flash Point Not available **Explosion Limits** Not available Flammability Not available Autoignition Temp Not available Refractive Index Not available Optical Rotation Not available

Section 10- Stability and Reactivity

Stability

Solubility

Stable Stable

Hazardous Decomposition Products

Miscellaneous Data

Hazardous Decomposition Products Nature of decomposition products not known

Not available

Soluble in water

Section 11- Toxicological Information

Route of Exposure

Skin Contact May cause skin irritation

Skin Absorption May be harmful if absorbed through the skin

Inhalation Material may be irritating to mucous membranes and upper respiratory tract, May

be harmful if inhaled.

Ingestion May be harmful if swallowed

Conditions Aggravated by Exposure The toxicological properties have not been thoroughly investigated.

Section 12- Ecological Information



Eco-toxicity

Toxicity of The Products of

Biodegradation

The product itself and its products of degradation are not toxic.

Section 13- Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Waste must be disposed of in accordance with federal, state an

environmental control regulations.

Section 14- Transport Information

DOT

Proper Shipping Name None

Non-Hazardous for Transport

This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport Non-hazardous for air transport

No

Section 15- Regulatory Information

United States Regulatory information

SARA Listed
Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR.

and the MSDS contains all the information required by the CPR.

DSL No NDSL No

Section 16- Other Information

Disclaimer For in vitro research use only.

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.