

Material Safe Data Sheet

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Date Updated Version

1.1

Section 1- Product Information

Product Name CHO-K1/CTLA4 Product Cat. No. M00530

Section 2- Composition / Information on Ingredients

Substance / Preparation: Preparation
Hazardous Component Dimethylsulfoxide

CAS No. 67-68-5 Percentage 5%

Section 3- Hazards Identification

HMIS Rating

Health 1
Flammability 0
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

physician.

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 eyes.

Specific Hazard(s) Emits toxic fumes under fire conditions

Section 6- Accidental Release Measures

Procedure to Be Followed in Case of Evacuate area

Leak or Spill

Procedure(s) of Personal Precaution(s)

Methods for Cleaning Up

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves

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.

Mechanical exhaust required

Storage Liquid nitrogen

Section 8- Exposure Controls/Personal Protection Equipment

Engineering Controls

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

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

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

goggles, other protective clothing.

General Hygiene Measures Wash thoroughly after handling

Section 9- Physical and Chemical Properties

Appearance Physical State Liquid

Property

Molecular Weight Not available pΗ 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 Not available SG/Density **Bulk Density** Not available Odor Threshold Not available Volatile% Not available **VOC Content** Not available Water Content Not available Solvent Content Not available **Evaporation Rate** Not available Viscosity Not available Not available Surface Tension **Partition Coefficient** Not available Not available Decomposition Temp. Flash Point Not available Not available **Explosion Limits**

Solubility Soluble

Section 10- Stability and Reactivity

Stability

Stable Stable

Hazardous Decomposition Products

Hazardous Decomposition Products Nature of decomposition products not known

Not available

Not available

Not available

Not available

Not available

Section 11- Toxicological Information

Acute Toxicity

LD50 (oral, rat/mouse) 14500 mg/kg (Rat) LD50 (dermal, rat/rabbit) Not available Not available LC50 (oral, rat/mouse)

Route of Exposure

Flammability

Autoignition Temp

Refractive Index

Optical Rotation

Miscellaneous Data

Eye Mild eye irritation 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,

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

Biodegradation

Section 13- Disposal Considerations

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Appropriate Method of Disposal of Waste must be disposed of in accordance with federal, state and local environmental control regulations. Substance or Preparation

Section 14- Transport Information

DOT

Proper Shipping Name None

Non-Hazardous for Transport

IATA

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

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

Section 15- Regulatory Information

United States Regulatory information

SARA Listed

No

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 Yes **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.