Material Safety Data Sheet – Fluoro Cholesterol

EMERGENCY # FOR NATIONAL RESPONSE CENTER (800) 424-8802

CHEMICAL IDENTIFICATION:

Product Name: Fluoro Cholesterol- Fluorescent Cholesterol Detection Kit

Catalog # FLCHOL 100-2,

Components:
Part# 3055. 1X Reaction Buffer: 20 ml of 100mM Tris based buffer, pH 7.4
Part# 4022. Cholesterol Probe: One vial.
Part# 6023. Enzyme Mix.
Part# 7018: Cholesterol Standard
Part# 7019: DMSO: 1 vial 0.5mL.

Part# 4022

Section 1
Synonyms: ADHP, 10-Acetyl-3,7-dihydroxyphenoxazine
CAS #: 119171-73-2
Chemical Formula: $C_{14}H_{11}NO_4$

Section 2 - HAZARDS IDENTIFICATION
Not known.

Section 3 – Characteristics
Red-brown powder.
Boiling point °f: No data available.
Vapor pressure (mm Hg): No data available.
Vapor density: No data available.
Solubility in water: Very low.
Specific gravity: Not applicable.
% Volatile by volume: Not applicable.
Evaporation rate: No data available.
pH: Not applicable to a powder.

Section 4 – Storage, Handling and Stability
The material is air sensitive. Store dry material at 4^0C.

Section 5 – Safety Control Measures
Gloves and standard laboratory protective clothing and eyewear are recommended. Safe laboratory practices should be followed.

Section 6 – Health Hazard Data
May enter the body through inhalation, ingestion, eye, and skin contact. To our knowledge the hazards of this material have not been fully tested. Handle material with caution.

RTECS Number:	None known
Toxicity:	We are not aware of any toxicity data for this product.
Health Hazards:	We are not aware of any reported health hazards for this product. We recommend treating all chemicals with caution.
Potential Hazards:	To our knowledge, the health hazards have not been thoroughly investigated.
Carcinogenicity:	Not listed by NTP, IARC or OSHA.

Section 7 - First Aid Measures
Avoid prolonged or repeated exposure. Remove contaminated clothing and shoes, and wash before reuse.
Skin: Wash skin thoroughly with soap and water.
Eyes: Flush with water for at least 15 minutes.
Ingestion: Seek medical attention.
Inhalation: Remove to fresh air. Seek medical attention.

Section 8 - Fire/Explosion Hazard Data
Use any means suitable for extinguishing surrounding fire. It is not necessary to use any special firefighting procedures. Water spray, carbon dioxide, dry chemical powder or appropriate foam can all be used.
Thermal Decomposition: No decomposition if used according to specifications.
Dangerous Reactions: None identified.
Dangerous Products of Decomposition: No dangerous decomposition products identified.

Section 9 - ACCIDENTAL RELEASE MEASURES For release of large amounts of material, wear safety glasses and rubber gloves. Stop source of leak and isolate spill area. Collect material in an appropriate container and dispose all waste in accordance with applicable laws. Dispose of all waste in accordance with all national, state, and local regulations.

Part# 3055, 6023 and 7018

Section 1 - Identification
CAS No.: NA
Molecular Weight: NA
Chemical Formula: NA

Section 2 - Hazard Identification
Harmful if swallowed. May cause irritation, avoid breathing vapors or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed

Section 3 - First Aid Measures
Harmful if swallowed. May cause irritation, avoid breathing vapors or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed
FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

Section 4 - Fire Fighting Measures
Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire
Fire/Explosion Hazards: Thermal decomposition produces highly toxic fumes.
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

Section 5 - Accidental Release Measures
Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

Section 6 - Handling and Storage
Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

Section 7 - Exposure Controls & Personal Protection
Ventilation: Local Exhaust
Use Gloves, Safety Glasses with side shield.
Other Protective Equipment: Use safe laboratory handling procedures.

Section 8 - Stability and Reactivity Information
Stability: Stable
Conditions to Avoid: Avoid contact with incompatible materials.
Materials to Avoid: Strong acids, aluminum and steel
Hazardous Decomposition Products: Thermal decomposition may produce toxic gases.
Hazardous Polymerization: Will Not Occur
Condition to Avoid: None known

Section 9 - Additional Information
Conditions aggravated/target organs: Persons with pre-existing eye and skin conditions will be more susceptible. Acute: Skin irritation, mild eye irritation, ingestion of large quantities may cause potassium poisoning. Chronic: Dermatitis, eye damage.
DOT Classification: Not Regulated

Part# 7019 DMSO

Section 1 - Composition/Information on Ingredients
Synonyms : DMSO
Methyl sulfoxide
Formula : C2H6OS
Molecular Weight : 78.13 g/mol

Section 2 - Hazards Identification
Emergency Overview
OSHA Hazards: Combustible Liquid, Target Organ Effect
Target Organs: Eyes, Skin
HMIS Classification
Health Hazard: 1
Chronic Health Hazard: *
Flammability: 2
Physical hazards: 0
NFPA Rating
Health Hazard: 0
Fire: 2
Reactivity Hazard: 0
Potential Health Effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

Section 3 - First Aid Measures
General advice
Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration
In case of skin contact
Wash off with soap and plenty of water.
In case of eye contact
Flush eyes with water as a precaution.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.
Call physician.

Section 4 - Fire-Fighting Measures
Flammable properties
Flash point 87 °C (189 °F) - closed cup
Ignition temperature 301 °C (574 °F)
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for firefighting if necessary.

Section 5 - Accidental Release Measures
Personal precautions
Avoid breathing vapors, mist or gas.
Environmental precautions
Do not let product enter drains.
Methods for cleaning up
Keep in suitable, closed containers for disposal.

Section 6 - Handling and Storage
Handling
Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.
Storage
Keep container tightly closed in a dry and well-ventilated place.
Store under inert gas. Hygroscopic

Section 7 - Exposure Controls/Personal Protection
Contains no substances with occupational exposure limit values.
Personal protective equipment
Respiratory protection
Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection
For prolonged or repeated contact use protective gloves.
Eye protection
Safety glasses
Hygiene measures
General industrial hygiene practice.

Section 8 - Physical and Chemical Properties
Appearance
Form liquid, clear
Color colorless
Safety data
pH no data available
Melting point 16 - 19 °C (61 - 66 °F)
Boiling point 189 °C (372 °F)
Flash point 87 °C (189 °F) - closed cup
Ignition temperature 301 °C (574 °F)
Lower explosion limit 3.5 %(V)
Upper explosion limit 42 %(V)
Vapour pressure 0.55 hPa (0.41 mmHg) at 20 °C (68 °F)
Density 1.1 g/mL

Water solubility completely miscible
Partition coefficient:
n-octanol/water
log Pow: -2.03
Relative vapour
density
2.70
- (Air = 1.0)

Section 9 - Stability and Reactivity
Storage stability
Stable under recommended storage conditions.
Materials to avoid
Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

Section 10 - Toxicological Information
Acute toxicity
LD50 Oral - rat - 14,500 mg/kg
LC50 Inhalation - rat - 4 h - 40250 ppm
LD50 Dermal - rabbit - > 5,000 mg/kg
Irritation and corrosion
Skin - rabbit - Mild skin irritation - 24 h
Eyes - rabbit - Mild eye irritation
Sensitization
No data available
Chronic exposure
Carcinogenicity - rat - Oral
Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.
Carcinogenicity - mouse - Oral
Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Leukemia Skin and Appendages: Other: Tumors.
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 11 - Disposal Considerations
APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Potential Health Effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.
Target Organs Eyes, Skin,

Section 12 - Ecological Information
Elimination information (persistence and degradability)
No data available
Ecotoxicity effects
Toxicity to fish
Toxicity to daphnia and other aquatic invertebrates.
Toxicity to algae
Further information on ecology
No data available

Section 13 - Disposal Considerations
Product
Contact a licensed professional waste disposal service to dispose of this material. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
Contaminated packaging
Dispose of as unused product.

Section 14 - Transport Information
DOT (US)
UN-Number: 1993 Class: CBL Packing group: III
Proper shipping name: Combustible liquid, n.o.s. (Dimethyl sulfoxide)
Marine pollutant: No
Poison Inhalation Hazard: No
IMDG
Not dangerous goods
IATA
Not dangerous goods

Section 15 - Regulatory Information
OSHA Hazards
Combustible Liquid, Target Organ Effect
DSL Status
All components of this product are on the Canadian DSL list.
SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Chronic Health Hazard

DISCLAIMER
For R&D use only. Not for drug, household or other uses.

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