

Safety Data Sheet


Section 1: Product & Company Identification


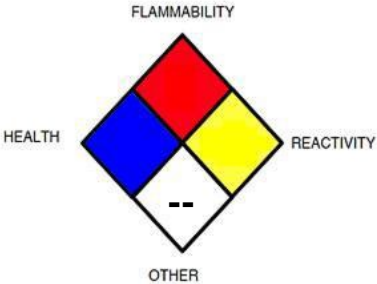
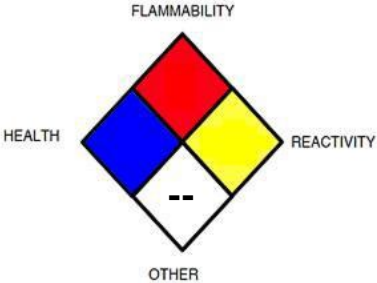
Product Name:	Catalase Activity Assay Kit
Product #:	C-2921
Synonyms:	-
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
Probe (in DMSO), One 200 µL vial: Dimethyl Sulfoxide ADHP 10-15 mM	67-68-5 119171-73-2	-	100
H ₂ O ₂ , One 50 µL vial of an 8.8 M Solution: Hydrogen Peroxide	7722-84-1	-	30%
CAT Assay Buffer	-	-	-
HRP Solution	-	-	-
Stop Solution	-	-	-
Catalase Positive Control	-	-	-

Section 3: Hazards Identification

Symbols	<p>H₂O₂, one 50 µL vial of an 8.8 M Solution:</p> <div style="text-align: center;">  </div>
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	<p>Probe (in DMSO):</p> 
<p>HMIS Classification</p>	
<p>NFPA Classification</p>	

Section 4: First Aid Measures

<p>General Overview:</p>	<p>Danger! Warning!</p>
<p>Inhalation:</p>	<p>If breathed in, move into fresh air. Seek medical advice if discomfort occurs. If not breathing, give artificial respiration. Call a physician.</p>
<p>Skin:</p>	<p>Wash off with plenty of water. Remove contaminated clothing and launder before reuse.</p>
<p>Eyes:</p>	<p>Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs, both acute and delayed.</p>
<p>Ingestion:</p>	<p>Do not induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.</p>
	<p>See section 11 for more detailed information on health effects & symptoms.</p>

SECTION 5: Fire Fighting Measures

Flammability of the product:	No data available
Extinguishing Media:	Use extinguishing media appropriate for the surrounding fire.
Hazardous thermal (de)composition products:	No data available
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and full protective clothing if necessary.
Flash Point:	No data available


Section 6: Accidental Release Measures




Personal Precautions:	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid formation of dust. Avoid breathing dust, vapors, mist, or gas. Avoid contact with skin and clothing.
Environmental Precautions:	Prevent further leakage. Prevent contamination of drains with product. Ventilate area and wash spill site after material pickup is complete.
Methods for Clean-up:	Pick up and collect product in suitable container for disposal.

SECTION 7: Handling & Storage

Storage:	Keep tightly closed. Recommended storage temperature: 2-8°C
Handling:	Avoid contact with skin and eyes. Avoid formation of dust. Avoid breathing dust, vapors, mist, or gas. Should be handled by trained personnel observing good laboratory practices. May cause allergic reaction in sensitized individuals.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>Wear suitable respiratory equipment in case of inadequate ventilation.</p>
Skin and Body:	

	  <p>Wear protective gloves conforming to EU Directive 89/686/EEC and European Standard EN374. Gloves must be inspected before use. Avoid skin contact with product when removing gloves. Dispose of contaminated gloves safely after use.</p> <p>Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the workplace.</p>
Eyes:	 <p>Wear safety glasses with side-shields conforming to European Standard EN166.</p>
Ventilation/Engineering Measures:	<p>Ensure adequate ventilation, especially in confined spaces.</p>
Hygiene:	<p>Handle in accordance with good industrial hygiene and safety practice.</p>
Other:	<p>Contains no substances with occupational exposure limit values.</p>

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	Liquid
Formula	No data available
Molecular Wt.	No data available
Melting Pt.	No data available
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	No data available
Flash Point:	No data available

Autoignition Temp:	No data available
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SECTION 10: Stability and Reactivity

Stability:	Stable under recommended storage conditions.
Hazardous decomposition products:	No data available
Materials to Avoid:	No data available
Conditions to avoid:	No data available

SECTION 11: Toxicological Information

RTECS#:	N/A
ACUTE Toxicity:	Dimethyl Sulfoxide: <ul style="list-style-type: none"> • LD50 Oral - rat - 14.5 mg/kg • LC50 Inhalation - rat - 4 h = 40250 ppm • LD50 Dermal - rabbit - >5 mg/kg
CHRONIC Toxicity:	N/A
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	<p>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.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>

SECTION 12: Ecological Information

Ecotoxicity:	Dimethyl Sulfoxide: <ul style="list-style-type: none"> • Toxicity to fish: <ul style="list-style-type: none"> ◦ LC50 - Pimephales promelas (fathead minnow) - 34 mg/L - 64 h ◦ LC50 Oncorhynchus mykiss (rainbow trout) - 35 mg/L - 96 h • Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia pulex (water flea) - 27.5 mg/L
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	<ul style="list-style-type: none"> Toxicity to algae: EC50 - <i>Lepomis macrochirus</i> (bluegill) - >400 mg/L - 96 h
	All other hazardous components: No data available
Mobility:	Mobility in soil
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	For small quantities: Cautiously add to a large stirred excess of water. Adjust the pH to neutral. Flush the aqueous solutions down the drain with plenty of water.
Contaminated Packaging:	No data available

SECTION 14: Transportation Information

UN ID#:	N/A
ADR / RID (LAND):	Not regulated
DOT regulations:	Not regulated
IMDG/IMO (SEA):	Not regulated
IATA/DGR (AIR):	Not regulated
Special Provisions:	N/A

SECTION 15: Regulatory Information

Health Phrases:	<p>H₂O₂ . One 50 µL vial of an 8.8 M solution: Danger!</p> <p>Probe (in DMSO). One 200 µL vial: Warning!</p>
Risk Phrases:	<p>H₂O₂ . One 50 µL vial of an 8.8 M solution:</p> <ul style="list-style-type: none"> H302 Harmful if swallowed H314 Causes severe skin burns and eye damage H402 Harmful to aquatic life <p>Probe (in DMSO). One 200 µL vial:</p> <ul style="list-style-type: none"> H227 Combustible liquid H302 Harmful if swallowed
Safety Phrases:	H₂O₂ . One 50 µL vial of an 8.8 M solution:

	<ul style="list-style-type: none"> • P264 Wash skin thoroughly after handling • P270 Do not eat, drink, or smoke when using this product • P273 Avoid release to the environment • P280 Wear protective gloves/protective clothing/eye protection/face protection <p>Probe (in DMSO). One 200 µL vial:</p> <ul style="list-style-type: none"> • P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking • P264 Wash skin thoroughly after handling • P270 Do not eat, drink, or smoke when using this product • P280 Wear protective gloves/protective clothing/eye protection/face protection
EU Regulations:	<p>H₂O₂ . One 50 µL vial of an 8.8 M solution:</p> <ul style="list-style-type: none"> • P301+P312+P330 IF SWALLOWED: call a POISON CENTER if you feel unwell. Rinse mouth • P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting • P303+P361+P353 IF ON SKIN (or hair): take off immediately all contaminated clothing Rinse skin with water/shower • P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physican. • P305+P351+P338+P310 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER / doctor • P405 Wash contaminated clothing before reuse (P363), Store locked up • P501 Dispose of contents/container to an approved waste disposal plant <p>Probe (in DMSO). One 200 µL vial:</p> <ul style="list-style-type: none"> • P301+P312+P330 IF SWALLOWED: call a POISON CENTER if you feel unwell. Rinse mouth • P370+P378 In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction. • P403+P235 Store in a well-ventilated place and keep cool • P501 Dispose of contents/container to an approved waste disposal plant
US Regulations:	<p>TSCA: Not listed California Proposition 65: No products were found</p>
U.S. Federal Regulations:	<p>SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found.</p>

	<p>SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found.</p> <p>OSHA:</p> <ul style="list-style-type: none"> • H₂O₂: Flammable liquids (Cat. 4), Acute toxicity - oral (Cat.4) • Probe (in DMSO): Skin corrosion (Cat. 1B)
WHMIS (Canada):	N/A

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*