



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier:

Product Name: ANAEROBIC CATALASE REAGENT – 15% HYDROGEN PEROXIDE
Catalog Numbers: AS-708

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Intended Purpose: Spot biochemical reagents are intended for in vitro diagnostic use by trained laboratory personnel for the identification and differentiation of microorganisms based on specific biochemical characteristics, such as enzymatic activity or metabolic reactions.

Intended Users: Scientists, laboratory and healthcare professionals trained in anaerobic microbiology techniques working in areas such as clinical, research, industrial, pharmaceutical and veterinary applications.

Restrictions on Use: No information available.

1.3 Details of the supplier of the safety data sheet:

Manufacturer: Anaerobe Systems
15906 Concord Circle
Morgan Hill, CA 95037
Telephone: (408) 782-7557 or (800) 443-3108
Email: tech@biolog.com

1.4 Emergency Contact:

Anaerobe Systems (408) 782-7557
CHEMTREC (800) 424-9300 (24 hr. service)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

Hazard Classification: OSHA 29 CFR 1910.1200, CLP/GHS Regulation (EC) 1272/2008
Oxidizing liquid 1
Acute toxicity, oral 4
Acute toxicity, inhalation 4
Skin corrosion/irritation 1A

2.2 Label elements:

GHS Label Elements:
Signal Word:

Danger



Hazard Pictogram:

Hazard Statement:

H272: May intensify fire; oxidizer.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H335: May cause respiratory irritation.



Hazards not otherwise classified (HNOC):

No data available

Precautionary Statement:

Prevention: Keep away from heat and ignition sources. Keep or store away from clothing and other combustible materials. Take all necessary precautions to avoid mixing with combustibles. Avoid breathing dust, fumes, gas, mist, vapors, or spray. Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection.

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Call a POISON CENTER if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

Fire: In case of fire, use water spray, fog, or foam. Use extinguishing agents suitable for surrounding materials. Do not use dry chemical or carbon dioxide extinguishers on hydrogen peroxide fires.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents or container to an approved waste disposal plant.

2.3 Other hazards:

Contains no PBT or vPvB substances according to REACH No 1907/2006. This mixture does not contain substances with endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures:

Hazardous components:

| Component Name | CAS No. | Weight % |
|-------------------|-----------|----------|
| Hydrogen peroxide | 7722-84-1 | 15.0 |

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Skin Contact: Immediately wash affected area with plenty of soap and water. Rinse thoroughly. If irritation persists, consult a physician.

Eye Contact: Check for and remove contact lenses. Immediately rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a physician.



Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a comfortable position for breathing.

Ingestion: Do not induce vomiting unless directed to by medical personnel. Never give anything by mouth to an unconscious person. Seek medical advice.

Medical Attention: If skin/eye irritation or a rash occurs, if experiencing respiratory symptoms, or if you feel unwell after exposure, seek medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed:

May cause irritation. No further information is available.

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

Treat symptomatically. No further information is available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable Extinguishing Media: Use water spray, fog, or foam. Use extinguishing agents suitable for surrounding materials. Do not use dry chemical or carbon dioxide extinguishers on hydrogen peroxide fires.

Unsuitable Extinguishing Media: Do not use dry chemical extinguishers or carbon dioxide, as they may be ineffective or react with the product.

5.2 Special Hazards Arising from the Substance or Mixture:

Releases oxygen upon decomposition, which can accelerate fire in contact with combustibles. Container may rupture if exposed to heat.

5.3 Advice for Firefighters:

Wear SCBA and full protective gear. Cool containers with water spray. Fight fire from a safe distance and upwind.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, protective equipment, and emergency procedures:

Use personal protective equipment as per section 8. Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions: Prevent entry into drains or waterways.

6.3 Methods and materials for containment and cleaning up:

For small spills, rinse away with plenty of water. For larger spills, contain with inert absorbent (e.g., sand, vermiculite), scoop into labelled, vented container. Flush residual with water. Keep combustible materials away.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling: Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation and contact with skin and eyes. Eyewash stations/bottles should be available. Do not eat, drink, or smoke when using this product. Wash hands thoroughly after using this product.



7.2 Conditions for safe storage, including any incompatibilities:

Storage: Store at temperatures between 2 – 8°C (35 – 46°F). Keep package sealed until ready to use. Once removed from the packaging, store in anaerobic conditions protected from light.

7.3 Specific end use(s):

The identified uses for this product are detailed in Section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

US. OSHA Table Z-1 Limits for Air Contaminants

| Component | Type | Value | |
|-------------------|------|-------|-----------------------|
| Hydrogen peroxide | TWA | 1 ppm | 1.4 mg/m ³ |

US. ACGIH Threshold Limit Values

| Component | Type | Value | |
|-------------------|------|-------|--|
| Hydrogen peroxide | TWA | 1 ppm | |

US. NIOSH: Pocket Guide to Chemical Hazards

| Component | Type | Value | |
|-------------------|------|-------|-----------------------|
| Hydrogen peroxide | TWA | 1 ppm | 1.4 mg/m ³ |

8.2 Exposure Controls:

Engineering Controls: Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Good laboratory practices and usual precautionary measures for handling chemicals should be followed.

Eye/Face Protection: Wear appropriate protective eyeglasses, chemical safety goggles, or face shield as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

Skin and Body Protection: Wear appropriate protective gloves and clothing to prevent skin exposure when handling inoculated media. Select appropriate protective clothing specifically for the workplace after risk assessment. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands after use.

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods. Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke when using this product.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

| | |
|---|-------------------|
| Physical State: | Liquid |
| Appearance: | Clear |
| Color: | Colorless |
| Odor: | No data available |
| Odor threshold: | No data available |
| pH: | No data available |
| Melting/Freezing Point: | No data available |
| Boiling Point/Range: | 100°C / 212°F |
| Flash Point: | No data available |
| Evaporation Rate: | No data available |
| Flammability (solid, gas): | No data available |
| Flammability Limits in Air: | |
| Upper | No data available |
| Lower | No data available |
| Vapor Pressure: | No data available |
| Vapor Density: | No data available |
| Specific Gravity: | No data available |
| Water Solubility: | Soluble |
| Solubility in Other Solvents: | No data available |
| Partition Coefficient: n-octanol/water: | No data available |
| Autoignition Temperature: | No data available |
| Decomposition Temperature: | No data available |
| Kinematic Viscosity: | No data available |
| Dynamic Viscosity: | No data available |
| Explosive Properties: | No data available |
| Oxidizing Properties: | No data available |

9.2 Other Information

| | |
|-----------------------------|-------------------|
| Softening Point: | No data available |
| VOC Content (%): | No data available |
| Particle Size: | No data available |
| Particle Size Distribution: | No data available |

SECTION 10: STABILITY AND REACTIVITY

| | |
|--|---|
| 10.1 Reactivity: | Oxidizer |
| 10.2 Chemical Stability: | Stable under normal conditions. |
| 10.3 Possibility of Hazardous Reactions: | None known, based on data available. |
| 10.4 Conditions to Avoid: | No data available. |
| 10.5 Incompatible Materials: | No data available. |
| 10.6 Hazardous Decomposition Products: | No data available |
| Hazardous Polymerization: | Does not occur. |
| Hazardous Reactions: | No hazardous reaction if used for its intended purpose. |



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes:

Information on Toxicological Effects

Likely Route of Exposure: Eye contact, skin contact, and/or ingestion.

Symptoms: May be harmful if swallowed or inhaled. Corrosive to skin and eyes; causes serious tissue damage.

Delayed and Immediate Effects and Chronic Effects from Short- and Long-Term Exposure

Sensitization: No data available

Reproductive Toxicity: No data available

Aspiration Hazard: May be harmful if inhaled.

Mutagenic Effects: No data available

Carcinogenicity (IARC, NTP, OSHA, ACGIH): Classified as A3 by ACGIH, not classifiable by IARC.

STOT*-Single Exposure: Not classified
(*-specific target organ toxicity)

STOT*-Repeated Exposure: No data available
(*-specific target organ toxicity)

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

11.2 Information on Other Hazards:

Endocrine disrupting properties: The product/mixture has no endocrine disrupting properties.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity: No data available

12.2 Persistence and Degradability: No data available

12.3 Bioaccumulation Potential: No data available

12.4 Mobility in Soil: No data available

12.5 Result of PBT and vPvB assessment: No data available

12.6 Endocrine disrupting properties: The product/mixture has no endocrine disrupting properties.

12.7 Other Adverse Effects: The ecological effects have not been thoroughly investigated but currently none have been identified.



SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

The information presented only applies to the material as supplied. The considerations may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the final waste generated to determine the proper disposal methods in accordance with all applicable federal, state, and local regulations.

Disposal Method: Do not dispose into sewers or drains without dilution. Dispose of in accordance with all applicable federal, state, and local regulations.

Contaminated Packaging: Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1 UN Number: UN2014
14.2 UN Proper Shipping Name: Hydrogen peroxide, aqueous solution
14.3 Transport Hazard Class: 5.1 (Oxidizer)
14.4 Packing Group: Typically II or III, depending on concentration and volume
14.5 Environmental Hazard: Not classified
14.6 Special Precautions for User: Protect from heat, transport upright, avoid contamination of container.

Transport in Bulk: Not classified
Land Transport (DOT): Not dangerous goods; this material is considered non-hazardous for transport.
Road/Rail (ADR/RID): Not dangerous goods; this material is considered non-hazardous for transport.
Air Transport (IATA): Not dangerous goods; this material is considered non-hazardous for transport.
Sea Transport (IMDG): Not dangerous goods; this material is considered non-hazardous for transport.

14.7 Maritime transport in bulk according to IMO instruments
Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific to this substance or mixture

SARA Section 302: No chemicals in this material are subject to the reporting requirements of SARA Title III Section 302.

SARA Section 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 Section 311/312: Immediate (Acute) Health Hazard: Yes (corrosive, irritant)
Delayed (Chronic) Health Hazard: Possibly, if long-term exposure is significant
Fire Hazard: Yes (oxidizer; can intensify fires)
Reactivity Hazard: Yes (decomposes to release oxygen)



Sudden Release of Pressure: No, unless heated in sealed container

TSCA (Toxic Substance Control Act): Substance is not listed.

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Carcinogenic Categories

NTP (National Toxicology Program): Substance not listed.

TLV (Threshold Limit Value): Substance is not listed.

Product Related Hazard Information: Observe the general safety regulations when handling chemicals.

Water Hazard Class: Generally, it is not hazardous for water.

SECTION 16: OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantees of the properties of the product. Anaerobe Systems shall not be held liable for any damage resulting from handling or from contact with the above product.

Regulatory References:

Hazard Communication Standard (HCS) 2012 (29 CFR 1910.1200)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008

Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

END OF SAFETY DATA SHEET