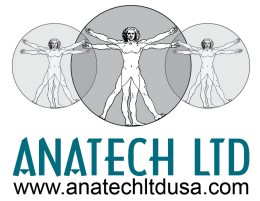


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Product Name: Amyloid Red

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SECTION 1: IDENTIFICATION

Product: Amyloid Red
Product number: 868, 881A
Synonyms: Amyloid stain
Recommended use: Laboratory chemical

Company

Anatech Ltd 1020 Harts Lake Road Battle Creek, MI 49037, USA	24 hour Transportation Emergency Product Technical Information Supplier General Contact	800.424.9300 CHEMTREC 800.262.8324, M-F, 8 AM-5 PM, ET 800.262.8324, M-F, 8 AM-5 PM, ET
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SECTION 2: HAZARD(S) IDENTIFICATION

Classification of substance

Flammable liquid (Category 3)
Skin corrosion/irritation (Category 2)
Eye damage/irritation (Category 2B)
Specific target organ toxicity, single exposure (STOT-SE) (Category 3) (Respiratory irritant)

Signal word

Warning

Hazard statement

Flammable liquid and vapor.
Causes skin irritation.
Causes eye irritation.
May cause respiratory irritation.

Pictogram



Precautionary statements

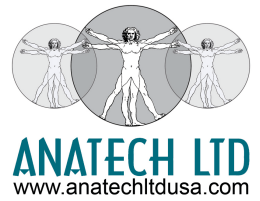
Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash skin thoroughly after handling.
Avoid breathing mist/vapors/spray.
Use in a well-ventilated area.

Response

If on skin/hair: Take off immediately all contaminated clothing. Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call poison center or get medical advice/attention if you feel unwell.
Specific treatment: See Section 4 of this SDS.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
In case of fire: Use dry chemical, carbon dioxide, water spray or alcohol-resistant foam to extinguish.

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Storage

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

Disposal

Dispose of contents/containers in accordance with governmental regulations.

Hazards not otherwise classified

None as defined under 29 CFR 1900.1200.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	CAS#	Concentration
Direct Red 72 (C.I. 29200)	10114-26-6	*
Ethanol	64-17-5	*
Salts	*	<1%
Acid	*	<0.1%

*As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals in accordance with applicable provisions of paragraph (i).

SECTION 4: FIRST-AID MEASURES

Description of first-aid measures

Inhalation	Remove victim to fresh air if coughing or difficulty in breathing is experienced. Consult a physician if symptoms persist or worsen. Administer oxygen or artificial respiration as needed.
Eye	Flush eyes for at least 15 minutes in an eyewash station. Consult a physician.
Skin	Remove contaminated clothing, including footwear; wash before reuse or discard. For minor exposure, wash affected area with water and mild soap, rinsing thoroughly. In cases of prolonged, repeated or extensive exposure, rinse affected area or entire body for at least 15 minutes. Consult a physician.
Ingestion	Call a poison center immediately.

Important symptoms, acute and delayed

Causes irritation to the eyes.
Ingestion is likely to cause adverse effects on gastrointestinal tract.
Causes respiratory tract irritation.
Causes moderate skin irritation.

Recommendations for immediate medical care and special treatment

See listed first-aid procedures. No information available for special treatment. Treat according to symptoms.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media

Use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

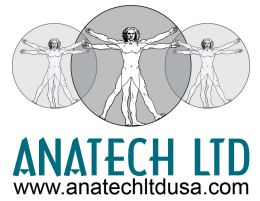
Specific hazards arising from the product

Carbon monoxide is expected to be the primary hazard.

Special protective equipment/precautions for fire-fighters

Fire-fighters may wear self-contained breathing apparatus if necessary.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

- Ensure adequate ventilation.
- Avoid inhalation of vapors.
- Avoid contact with skin and eyes.
- Eliminate sources of ignition.
- Take precautionary measures against static electricity.

Protective equipment

- Wear protective gloves, impermeable aprons and splash-proof goggles.

Emergency procedures

- See information in sub-section above.

Methods and materials for containment and cleanup

- Eliminate sources of ignition.
- Take precautionary measures against static electricity.
- Contain and soak up spill with inert absorbent material. Small spills can be cleaned with a damp sponge.
- Discard absorbents and other contaminated solids in a suitable trash receptacle.
- Dispose absorbents and other contaminated solids as a hazardous waste.
- Wash contaminated area with soap and water.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

- Avoid contact with skin and eyes.
- Avoid inhalation of vapors.
- Wear protective gloves, impermeable aprons and splash-proof goggles.
- With large volumes material will accumulate static. Use proper grounding procedures for storage and when moving to transfer containers.

Conditions for safe storage including incompatibilities

- Keep containers tightly closed.
- Store at room temperature.
- Consult local fire codes for additional storage information.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

Chemical name	CAS#	Exposure Limit	Value
Direct Red 72	10114-26-6	None established	-
Ethanol	64-17-5	OSHA (8 hr TWA)	1000 ppm
Salts	Trade secret	None established	-
Inorganic acid (<0.1%)	Trade secret	None established at this %	

Appropriate engineering controls

- Good general room ventilation should be provided so that exposure limits are not exceeded.
- If required provide local exhaust ventilation to control vapors.

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Personal protective measures

Respiratory protection	None needed for this concentration. When risk assessment shows one is necessary, wear respirator with organic vapor cartridge.
Eye protection	Use splash-proof goggles. Wear face shield if splashing hazard exists. An eyewash station must be nearby, no more than 10 seconds away.
Skin protection	Wear nitrile or chemical resistant gloves. Do not use latex surgical gloves for protection. Safety shower must be nearby, no more than 10 seconds away.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Red liquid
Odor	Slight alcohol odor
Odor threshold	No data available
pH	6.8-7.2
Melting point/freezing point	No information available
Initial boiling point and boiling range	No information available
Flash point	97°F (36.1°C) closed cup
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Solubility(ies)	Complete in water
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition	No information available
Viscosity	No information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as indicated.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reaction

The product is chemically stable.

Conditions to avoid

Heat, flames and sparks. Temperatures greater than flash point.

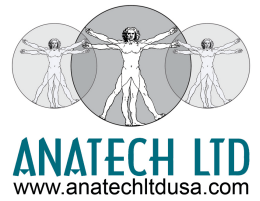
Incompatible materials

Strong oxidants.

Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated.

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SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure

Skin, eye, inhalation.

Symptoms related to physical, chemical and toxicological characteristics

The following statements are based on data for undiluted ethanol.

Causes irritation of the respiratory tract.
Eye and skin contact causes irritation.

Delayed and immediate effects

See information in sub-section above.

Chronic effects from short- and long-term exposure

No information available for this product.

Numerical measures of toxicity

The following data are for 100% ethanol.

Acute toxicity, inhalation (rat)	LC ₅₀ >20,000 ppm, 10 hrs
Acute toxicity, oral (human)	LDLo : 1400 mg/kg BWT

Assessment of other acute effects

Specific target organ toxicity, single exposure (STOT-SE): causes respiratory irritation (lungs).

Carcinogenicity

None as defined by 29 CFR 1900.1200.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The following data are from studies using full strength ethanol.

LC=lethal concentration

Test	Duration	Organism	Test Results
Acute toxicity-fish	96 hours	<i>Oncorhynchus mykiss</i>	LC ₅₀ >10,000 mg/l
	96 hours	<i>Pimephales promelas</i>	LC ₅₀ >13,400 mg/l
Aquatic plants	96 hours	<i>Chlorella vulgaris</i>	1,000 mg/l (growth inhibition)
Toxicity to microorganisms	34 days	<i>Pseudmona putida</i>	6,500 mg/l Inhibition of cell multiplication begins

Persistence and degradability

Biodegradation is expected.

Bioaccumulative potential

Bioaccumulation is unlikely.

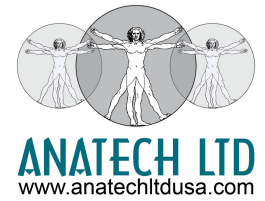
Mobility in soil

No information available.

Other adverse effects

No information available.

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SECTION 13: DISPOSAL CONSIDERATIONS

Drain disposal may be possible with the permission of local wastewater treatment authorities. Otherwise contact a licensed professional waste disposal service to dispose of this material. Proper waste disposal is the generator's responsibility. Follow federal, state (provincial) and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT (USA) and IATA

Proper Shipping Name: Flammable liquid, n.o.s. (ethanol)

Identification Number: UN1993

Hazard Class: 3

Packing Group: III

Marine pollutant

No information available.

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is considered hazardous in accordance with 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA (National Fire Protection Association) Rating

General note: The ratings provide information to emergency personnel on the fire hazards associated with the chemical. It is not descriptive of hazards under normal conditions of occupational use.

Health	1	Materials that, under emergency conditions, can cause significant irritation.
Flammability	2	Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. Under normal conditions, these materials would not form hazardous atmospheres with air, but under high ambient temperatures or under moderate heating they could release vapor in sufficient quantities to produce hazardous atmospheres with air.
Instability	0	Materials that in themselves are normally stable, even under fire conditions.

Disclaimer

Anatech Ltd. believes the information in the SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn may be from sources other than direct test data on the substance itself. It is the user's responsibility to determine suitability of the product for his/her own use, and to assure proper use and disposal of it to protect the safety and health of employees and the protection of the environment.

Date of preparation

June 1, 2015