



Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
×	Irritating to skin, eyes, and the respiratory system. This compound is a skin sensitizer.	

Section I.	Chemical Product and Company Identifica	tion	
Chemical Name	Disperse Red 1		
Catalog Number	D3284	Supplier	TCI America 9211 N. Harborgate St.
Synonym	4-[Ethyl(2-hydroxyethyl)amino]-4'-nitroazobenzene; N-Ethyl-N-(2-hydroxyethyl)-4-(4-nitrophenylazo)aniline		Portland OR 1-800-423-8616
Chemical Formula	$C_{16}H_{18}N_4O_3$		
CAS Number	2872-52-8	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)

Section II. Composition and Information on Ingredients					
Chemical N	lame	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Disperse Re	ed 1	2872-52-8	Not available.		Rat LD ₅₀ (intraperitoneal) 7470 mg/kg

Section III.	Hazards Identification
Acute Health Effects	Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Skin contact may result in sensitization. Always cover all exposed skin with an impermeable layer and use proper eye protection. A OSHA/MSHA approved dust and vapor respirator is required when working with this material. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Section IV.	First Aid Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

Section V.	Fire and Explosion Data				
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.		
Flash Points	Not available.	Flammable Limits	Not available.		
Combustion Products	These products are toxic carbon oxides (CO,	These products are toxic carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂).			
Fire Hazards	Not available.	Not available.			
Explosion Hazards		Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.			
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Consult with local fire authorities before attem		perations.		

Section IX.	Physical and Chemical Prope	erties	
Physical state @ 20°C	Solid. (Yellowish-red crystal ~ powder.)	Solubility	Not available.
Specific Gravity	Not available.		
Molecular Weight	314.34	Partition Coefficient	Not available.
Boiling Point	Not available.	Vapor Pressure	Not applicable.
Melting Point	165 °C (329 °F)	Vapor Density	Not available.
Refractive Index	Not available.	Volatility	Not available.
Critical Temperature	Not available.	Odor	Not available.
Viscosity	Not available.	Taste	Not available.

Section X. Stability and Reactivity Data Stability This material is stable if stored under proper conditions. (See Section VII for instructions) Conditions of Instability Avoid excessive heat and light. Incompatibilities Reactive with oxidizing agents.

Section XI.	Toxicological Information
RTECS Number	KL0320000
Routes of Exposure	Eye Contact. Ingestion. Inhalation. Skin contact.
Toxicity Data	Rat LD ₅₀ (intraperitoneal) 7470 mg/kg
Chronic Toxic Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.
Acute Toxic Effects	Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Skin contact may result in sensitization. Always cover all exposed skin with an impermeable layer and use proper eye protection. A OSHA/MSHA approved dust and vapor respirator is required when working with this material. Follow safe industrial hydiene practices and always wear proper protective equipment when handling this compound.

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Section XII.	Ecological Information	
Ecotoxicity	Not available.	
Environmental Fate	Not available.	

Section XIII. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all

federal, state and local regulations when disposing of the substance

Section XIV. Transport Information

DOT Classification Not a DOT controlled material (United States).

PIN Number Not applicable.

Proper Shipping Name Not applicable.

Packing Group (PG) Not applicable.

DOT Pictograms



Section XV. Other Regulatory Information and Pictograms

This compound is **ON** the EPA Toxic Substances Control Act (TSCA) inventory list. TSCA Chemical Inventory

(EPA)

On DSL. WHMIS Classification

(Canada)

EINECS Number (EEC) 220-704-3

EEC Risk Statements

R36/37/38- Irritating to eyes, respiratory system and skin. R42/43- May cause sensitization by inhalation and skin contact.

Japanese Regulatory Data ENCS No. 5-2438

Section XVI. Other Information

Version 1.0 Validated on 7/6/2009. Printed 7/6/2009.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.