



MATERIAL SAFETY DATA SHEET

ACRIFLAVIN NEUTRAL

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION					
Comon/Trade Name	ACRIFLAVIN NEUTRAL				
Commercial name	Not available				
Synonym	Acriflavin Base, Euflavine, 2,8-Diamino-10-methylacridinium chloride mixture with 2,8-diaminoacridine; 3,6-Diamino-10methylacridinium chloride mixture with 3,6-acridinediamine, 3,6 -Diaminoacridine mixture with 3,6-diamino-10-methylacridinium chloride. Angiflan, Assiflavine; Biaflavina, Bioaceridin; Bovoflavin; Buroflavin; Choliflavin; Diacrid; Flavacridinum hydrochloricum, Flavine; Choliflavin; Diacrid; Falvacridinum hydrochloricum; Flavine; Flavineetten; Flavioform; Flavipin; Flavisept; Glyco-flavine, Gonacin; Gonacrine, Isravine; Mediflavin; Palflavin; Pantonsileetten; Tolivalin; Trachosept; Tripola-etilo; Vetaflavin; Xanthacridinum; Zoriflavin				
Chemical Name	Acridinium,3,6-diamino-10-methy-, chloride mixed with 3,6 acridinediamine				
Chemical Family	Not available				
Chemical Formula	C ₁₄ -H ₁₄ -C ₁ -N ₃₂				
Supplier	Head Office JAI RADHE SALES 309, Haikrupa Tower, Nr. Old Sharda Mandir Char Rista, Ellisbridge, Ahmedabad-380 006. Tel No: 91 79 26431096, 55255722 Fax No: 91 79 26569884 E-mail : info@jairadhesales.com, exports@jairadhesales.com				
SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS					
	Exposure Limits				
Name	CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL(mg/m ³)	% by weight
ACRIFLAVINE NEUTRAL	8048-52-0				100
Toxicological Data On Ingredients	Acriflavine Neutral Oral-Rat- LD50: 3570 Mg/kg. Dermal LD 50 : 1475 Mg/kg. Inhalation Toxicity : LD 50 : 25 Mg./Lit				
SECTION 3: HAZARDS IDENTIFICATION					
Potential Acute Health Effects:	Hazardous in case of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion.				
Potential Chronic Health Effects	CARCINOGENIC EFFECTS : Classified None. By OSHA, None by NIOSH. 3 (Not Classifiable for human.) by IARC (Inadequate study,)by NTP MUTAGENIC EFFECTS : Mutagenic for mammalian somatic cells. Mutagenic for bacterial and/or yeast. TERATOGENIC EFFECTS : Not available DEVELOPMENTAL TOXICITY : Not available Repeated or prolonged exposure is not known to aggravate medical condition.				
SECTION 4 : 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. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.				
Serious Skin contact	Not available				
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.				
Serious Inhalation	Not available.				
Ingestion	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as collar, tie, belt or waistband.				
Serious Ingestion	Not available				





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SECTION 5: FIRE & EXPLOSION DATA			
Flammability of the Product	May be combustible at high temperature		
Auto-Ignition Temperature	Not available		
Flash points	Not available		
Flammable Limits	Not available		
Products of Combustion	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...), halogenated compounds.		
Fire Hazards in presence of Various substances	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.		
Explosion Hazards in presence Of various substances	Slightly explosive in presence of open flames and sparks Non-explosive in presence of shocks		
Fire Fighting Media and Instructions	SMALL FIRE : Use DRY chemical powder. LARGE FIRE : Use water spray, fog or foam. DO not use water jet.		
Special Remarks on Fire hazards	As with most organic solids, fire is possible at elevated temperatures.		
Special Remarks on Explosion Hazards	Fine dust dispersed in air in sufficient concentration, and in the presence of an ignition source is a potential dust explosion hazard.		
SECTION 6. ACCIDENTAL RELEASE MEASURES			
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.		
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.		
SECTION 7 : HANDLING AND STORAGE			
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Keep away from compatibles such as oxidizing agents.		
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.		
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION			
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.		
Personal Protection	Splash goggles. Lab coat. Dust Respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.		
Personal Protection in case of a Large spill	Splash Goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist BEFORE handling this product.		
Exposure Limits	Not available.		
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical state and appearance	Solid (Powdered solid)	Odour	Odourless
Molecular Weight	665.765 g/mole	Taste	Not available
pH (1% soln./water)	Not available	Colour	Redish-brown; Brick Red
Boiling Point	Not available		
Melting Point	260°C (500°F)		
Critical Temperature	Not available		
Special Gravity	Not available		
Vapor Pressure	Not applicable		
Vapor Density	Not available		
Volatility	Not available		
Odor Threshold	Not available		
Water/Oil Dist. Coeff.	Not available		
Ionicity (in Water)	Not available		
Dispersion Properties	Not available		
Solubility	Not available .		
SECTION 10 : STABILITY AND REACTIVITY DATA			
Stability	The product is stable		
Instability Temperature	Not available		
Conditions of Instability	Excess heat, dust generation, incompatible materials		
Incompatibility with various substances	Reactive with oxidizing agents.		
Corrosivity	Not available		
Special Remarks on Reactivity	Not available		
Special Remarks on Corrosivity	Not available		
Polymerization	Will not occur.		





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SECTION 11: TOXICOLOGICAL INFORMATION			
Routes of Entry		Inhalation. Ingestion	
Toxicity to Animals		Oral-Rat- LD50: 3570 Mg/kg. Dermal LD 50 : 1475 Mg/kg. Inhalation Toxicity : LD 50 : 25 Mg./Lit	
Chronic Effects on Human		CARCINOGENIC EFFECTS : Classified None. By OSHA, None by NIOSH. 3 (Not Classifiable for human.) by IARC (Inadequate study,) by NTP MUTAGENIC EFFECTS : Mutagenic for mammalian somatic cells. Mutagenic for bacterial and/or yeast.	
Other Toxic Effects on Humans		Hazardous in case of inhalation (lung irritant) Slightly hazardous in case of skin contact (irritant), of ingestion.	
Special Remarks on Toxicity to Animals		Not available	
Special Remarks on Chronic Effects on Humans		May affect genetic material (mutagenic) May cause cancer based on animal test data. No human found.	
Special Remarks on other Toxic Effects on Humans		Skin: Causes skin irritation Eyes: Causes eye irritation May cause conjunctivitis Inhalation: Causes respiratory tract irritation Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting and diarrhea Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion of Acriflavine may affect the spleen, liver, and kidneys.	
SECTION 12: ECOLOGICAL INFORMATION			
Ecotoxicity		Not available	
BOD5 and COD		Not available	
Products of Biodegradation		Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products of Biodegradation		The products of degradation are more toxic than the product itself.	
Special Remarks on the Products of Biodegradation		Not available.	
SECTION 13: DISPOSAL CONSIDERATIONS			
Waste Disposal		Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
SECTION 14: TRANSPORT INFORMATION			
DOT Classification		Not a DOT controlled material (United States)	
Identification		Not applicable	
Special Provisions for Transport		Not applicable	
SECTION 15: OTHER REGULATORY INFORMATION AND PICTOGRAMS			
Federal & State Regulations		No products were found.	
CALIFORNIA PROPOSITION 65 WARNINGS:			
California Prop.65:		This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the status - No products were found. This product contains the following ingredients for which the State of California has found to cause birth defects which require a warning under the statute - No products were found	
Other Regulations		Not available	
Other Classifications		WHMIS (Canada) Not controlled under WHMIS (Canada)	
DSCL (EEC)		R36/37/38-Irritating to eyes, respiratory system and skin S24/25-Avoid contact with skin and eyes. S28-After contact with skin, wash immediately with plenty of water S37-Wear suitable gloves S46-If swallowed, seek medical advice immediately and show this container or label.	
HMIS (U.S.A.)		Health Hazard 2 Fire Hazard 1 Reactivity 0 Personal Protection E National Fire Protection Association (U.S.A.) Flammability 1 Health 2 Reactivity 0 Specific Hazard -	
Protective Equipment		Gloves, Lab Coat, Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.	
SECTION : 16 : OTHER INFORMATION			
Notice to Reader: All chemicals may pose unknown hazards and should be used with caution. The Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the users responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judgment to be reliable. Jai Radhe Sales Assumes no responsibility for the completeness or accuracy of the information contained herein.			

