

Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	POSSIBLE CARCINOGEN. MINIMIZE EXPOSURE.	   

Section I. Chemical Product and Company Identification

Chemical Name	Food Red No. 102		
Catalog Number	F0140	Supplier	TCI America 9211 N. Harborgate St. Portland OR 1-800-423-8616
Synonym	New Coccine CI 16255		
Chemical Formula	C ₂₀ H ₁₁ N ₂ Na ₃ O ₁₀ S ₃		
CAS Number	2611-82-7	In case of Emergency Call Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)	

Section II. Composition and Information on Ingredients

Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Food Red No. 102	2611-82-7	-----	This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen.	Rat LD ₅₀ (oral) > 8 gm/kg Rat LD ₅₀ (intraperitoneal) 600 mg/kg Rat LD ₅₀ (intravenous) 1 gm/kg Mouse LD ₅₀ (intraperitoneal) 1600 mg/kg

Section III. Hazards Identification

Acute Health Effects	No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound. 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 : Tumorigenic Effects. Rat TDLo Oral 428 gm/kg/64 weeks intermittent TOXIC Effects: Tumorigenic – Equivocal tumorigenic agent by RTECS criteria Liver – Tumors DEVELOPMENTAL TOXICITY : Not available.

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, CO ₂), nitrogen oxides (NO, NO ₂), sulfur oxides (SO ₂ , SO ₃ ...). Some metallic oxides.		
Fire Hazards	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.		

Continued on Next Page
Emergency phone number (800) 424-9300

Fire Fighting Media
and Instructions

SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.
Consult with local fire authorities before attempting large scale fire-fighting operations.

Section VI. Accidental Release MeasuresSpill Cleanup
Instructions

Possibly carcinogenic material.
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water. Consult federal, state, and/or local authorities for assistance on disposal.

Section VII. Handling and StorageHandling and Storage
Information

POSSIBLE CARCINOGEN. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. Do not breathe dust.

Section VIII. 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. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent.



Exposure Limits

This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen.

Section IX. Physical and Chemical Properties

Physical state @ 20°C	Solid.	Solubility	Not available.
Specific Gravity	Not available.		
Molecular Weight	604.47	Partition Coefficient	Not available.
Boiling Point	Not available.	Vapor Pressure	Not applicable.
Melting Point	Not available.	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 strong oxidizing agents.

Section XI. Toxicological Information

RTECS Number	QJ6530000
Routes of Exposure	Eye Contact. Ingestion. Inhalation.
Toxicity Data	Rat LD ₅₀ (oral) > 8 gm/kg Rat LD ₅₀ (intraperitoneal) 600 mg/kg Rat LD ₅₀ (intravenous) 1 gm/kg Mouse LD ₅₀ (intraperitoneal) 1600 mg/kg
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Tumorigenic Effects. Rat TDLo Oral 428 gm/kg/64 weeks intermittent TOXIC Effects: Tumorigenic – Equivocal tumorigenic agent by RTECS criteria Liver – Tumors DEVELOPMENTAL TOXICITY : Not available.
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Section XII. Ecological Information

Ecotoxicity

Not available.

Environmental Fate

C.I. Acid Red 18's production and use as an important textile dye for wool, nylon and silk, or as a dye for inks, for dyeing paper and leather, coloring plastics and staining wood may result in its release to the environment through various waste streams. If released to the atmosphere, C.I. Acid Red 18 will exist solely in the particulate phase in the ambient atmosphere based on an estimated vapor pressure of 1.3×10^{-27} mm Hg at 25 deg C. Particulate-phase C.I. Acid Red 18 may be physically removed from the air by wet and dry deposition. An estimated Koc of 9 suggests that C.I. Acid Red 18 will have very high mobility in soil. However, the retention of C.I. Acid Red 18 by ion-exchange processes, particularly on clay surfaces, and adsorption at mineral surfaces such as geothite, may slow down or prevent leaching. Volatilization from dry and moist soil surfaces is not expected to be a major fate process for this compound. On surface soils exposed to sunlight, C.I. Acid Red 18 may slowly photolyze. C.I. Acid Red 18 is expected to be resistant to aerobic biodegradation; it may be biodegraded anaerobically as a wide variety of anaerobic bacteria have the ability to cleave the azo linkage to produce aromatic amines. It is not expected to volatilize from water surfaces. It may adsorb to sediments or particulate matter in water. C.I. Acid Red 18 may, however, be susceptible to slow photolysis in water with an estimated half-life of 133 days. C.I. Acid Red 18 is not expected to bioconcentrate in aquatic organisms based on an estimated bioconcentration factor of 1. Occupational exposure to C.I. Acid Red 18 may occur during its production and use as a dye and stain.

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**

TSCA Chemical Inventory (EPA)

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

WHMIS Classification (Canada)

On DSL

EINECS Number (EEC)

200-036-2

EEC Risk Statements

R45- May cause cancer.

Japanese Regulatory Data

ENCS No. 5-1495

Section XVI. Other Information**Version 1.0****Validated on 1/25/2007.****Printed 1/25/2007.****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.