

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Schiff Reagent

SYNONYMS: Schiff's reagent solution

CATALOG CODES: VSR

MANUFACTURER: Volu-Sol

ADDRESS: 5095 West 2100 South
Salt Lake City, UT 84120

EMERGENCY PHONE: (800) 535-5053

OTHER CALLS: (801) 974-9474

FAX: (801) 974-9553

CHEMICAL FAMILY: -

CHEMICAL FORMULA: -

PREPARED BY: Volu-Sol

RECOMMENDED USE: Laboratory chemicals

RESTRICTIONS ON USE: Use as recommended

SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW:

GHS Classification: Corrosive to metals (Category 1)
Skin corrosion (Category 1A)
Serious eye damage (Category 1)
Carcinogenicity (Category 1B)

GHS LABEL ELEMENTS:

Pictogram: 

Signal Word: Danger

Hazard Statement(s):

H290 May be corrosive to metals
H314 Causes severe skin burns and eye damage
H350 May cause cancer

Precautionary Statement(s):

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P234 Keep only in original container
P264 Wash skin thoroughly after handling
P280 Wear protective gloves/ eye protection/ face protection
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 Immediately call a POISON CENTER or doctor/physician
P321 Specific treatment (see supplemental first aid instructions on this label)
P363 Wash contaminated clothing before reuse
P390 Absorb spillage to prevent material damage
P405 Store locked up
P406 Store in corrosive resistant stainless steel container with a resistant inner liner
P501 Dispose of contents/container to an approved waste disposal plant

OTHER HAZARDS: -

HMIS Classification:

Health hazard: 3

Chronic health hazard: -

Flammability: 0

Physical hazards: 0

NFPA Rating:

Health hazard: 3

Fire: 0

Reactivity Hazard: 0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO. EC-NO. Index-NO.
Sodium metabisulphite (1 - 5 %)	7681-57-4 231-673-0 016-063-00-2
Hydrochloric acid (1 - 5 %)	7647-01-0 231-595-7 017-002-01-X
C.I. Basic red 9 (0.1 – 1 %)	569-61-9 209-321-2 611-031-00-X

SECTION 4: FIRST AID MEASURES

INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

SKIN: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician

EYE: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: **Percentage by Volume**
Upper: %
Lower: %

FLASH POINT: -

AUTOIGNITION TEMPERATURE:

EXTINGUISHING MEDIA: Foam. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

FIRE FIGHTING PROCEDURES: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode

FIRE AND EXPLOSION HAZARDS: No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid inhalation of vapour or mist. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature 2 - 8 °C

INCOMPATIBILITIES: Strong oxidizing agents

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: Reported in a time-weighted average (TWA)

Component	CAS-No.	OSHA		ACGIH	
		ppm	mg/m ³	ppm	mg/m ³
Sodium metabisulphite	7681-57-4				5.00 TLV
Hydrochloric acid	7647-01-0	5 PEL	7 PEL	2 TLV	

VENTILATION SYSTEM: Local and/or general exhaust is recommended to keep exposure below limits. Local exhaust ventilation is preferred for control of the emissions at its source, preventing dispersion into the general work area. Please refer to the ACGIH document, *Industrial Ventilation: A Manual of Recommended Practices*, for details

PERSONAL RESPIRATORS: If exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapour respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier; whichever is lowest. A full-face piece organic vapour respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face, positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres

SKIN PROTECTION: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

EYE PROTECTION: Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation. Material should be handled in a laboratory hood whenever possible

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: liquid
ODOR: -
SOLUBILITY: -
pH: -
BOILING POINT: -
MELTING POINT: -
VAPOR PRESSURE: -
DENSITY: -
VISCOSITY: -
REFRACTIVE INDEX: -

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended conditions of use and storage
CONDITIONS TO AVOID: No data available
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Sulphur oxides, Hydrogen chloride gas, Sodium oxides

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:
Acute Toxicity: No data available
Skin/Eye Irritation: No data available
Carcinogenicity:
IARC: 2B - Group 2B: Possibly carcinogenic to humans (C.I. Basic red 9)
NTP: RAHC - Reasonably anticipated to be a human carcinogen (C.I. Basic red 9)
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Toxicity: No data available
Persistence and degradability: No data available
Mobility in soil: No data available
PBT/vPvB Results: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

US DOT	IATA	IMDG/IMO
Shipping Name: Hydrochloric acid	Shipping Name: Hydrochloric acid	Shipping Name: Hydrochloric acid
Hazard Class: 8	Hazard Class: 8	Hazard Class: 8
UN Number: 1789	UN Number: 1789	UN Number: 1789
Packing Group: III	Packing Group: III	Packing Group: III

SECTION 15: REGULATORY INFORMATION

SARA 302	-
SARA 313	7647-01-0
SARA 311/312 Hazards	Acute Health Hazard, Chronic Health Hazard
State	Right to know lists: MA: 7681-57-4, 7647-01-0, 569-61-9 PA: 7732-18-5, 7681-57-4, 7647-01-0, 7440-44-0 NJ: 7732-18-5, 7681-57-4, 7647-01-0, 569-61-9, 7440-44-0 California Prop. 65 Components: 569-61-9

SECTION 16: OTHER INFORMATION

Disclaimer: The information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.