

MATERIAL SAFETY DATA SHEET

MSDS No. 09416302
 Revised Date: 96/08/05

IDENTITY Autokit Micro TP

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME : Wako Pure Chemical Industries, Ltd.
 ADDRESS : 1-2, Doshomachi 3-Chome, Chuo-ku, Osaka, 541, Japan
 (Wako Chemicals USA, Inc. : 1600 Bellwood Road, Richmond, VA 23237, U.S.A.)
 TELEPHONE NUMBER FOR INFORMATION : (800)992-9256 (Wako Chemicals USA, Inc.)
 EMERGENCY TELEPHONE NUMBER : (800)424-9300 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONTENT
【1】 Color Reagent (pH 2.2)		
0.1M Glycine buffer solution		
Pyrogallol red ①	32638-88-3	0.0027%
Ammonium molybdate ②	12027-67-7	0.003%
Surfactant		
【2】 Standard Solution		
Total protein;		
Human serum albumin ③	70024-90-7*	0.1%
Sodium azide ④	26628-22-8	0.1%

SYNONYMS : ①= Spiro[3H-2,1-benzoxathiole-3,9'-(9H)xanthene]-3',4',5',6'-tetrol 1,1-dioxide
 ②= Ammonium paramolybdate
 ③= Albumins, human
 ④= Azide, Azium

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW :

【1】 ; Dark violet cleaar liquid, odorless

【2】 ; Nearly colorless clear liquid, almost odorless

Irritation of eyes and skin. May be harmful if inhaled and ingested.

POTENTIAL HEALTH EFFECTS :

ROUTE OF ENTRY : Inhalation; Yes, Skin; Yes, Ingestion; Yes

EYE CONTACT: May irritate and cause pain, tearing, redding, swelling and itching of the eyes.

SKIN CONTACT: Irritate the skin and cause skin rash(dermatitis).

SKIN ABSORPTION: Prolonged exposure may result in the material being absorbed through skin in harmful amounts.

INHALATION: Irritate to the eyes, nose, throat and lungs. It may also cause headaches and dizziness.

INGESTION: May cause anorexia, headaches, bellyache, diarrhea, nausea, vomiting and fever.

CARCINOGENICITY : NTP; Not listed, IARC; Not listed, OSHA; Not listed

4. FIRST AID

EYE CONTACT: Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
SKIN CONTACT: Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.
INHALATION : Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.
INGESTION : Rinse mouth, give plenty of water or milk to dilute the substance and induce vomiting. Consult a physician.

5. FIRE FIGHTING MEASURES

FLASH POINT : Not available
FLAMMABLE(EXPLOSIVE) LIMITS : Not available
EXTINGUISHING MEDIA : Carbon dioxide, dry chemical powder, foam, water
FIRE & EXPLOSION HAZARDS : Toxic, irritating fumes or smoke may be emitted.
FIRE FIGHTING INSTRUCTIONS : Firemen should wear normal protective equipment(full bunker gear)and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Do not touch spilled material without suitable protection. Take up spilled material with ashes or other absorbents. After material is completely picked up, wash the spill site with soap and water and ventilate the area. During the cleanup, wear protective clothes, gloves and goggles. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

7. HANDLING AND STORAGE

For in vitro diagnostic use. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection. Deal similarly with patient serum. Store away from sunlight in a cool(2~10°C= 35.6~50° F) well-ventilated dry place. Keep container tightly closed. See the package insert for further handling information.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS : Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation.
VENTILATION : Local Exhaust ; Necessary, Mechanical(General) ; Necessary Special ; Closed system is recommended.
PERSONAL PROTECTION : Safety glasses(goggles), Chemical resistant gloves, Protective clothing, NIOSH/MSHA approved respirator
EXPOSURE GUIDELINE(S) :

- ④; OSHA Final Limits : None established
ACGIH TLV(s) : STEL= 0.29mg/m3
①,②,③; None established

14. TRANSPORT INFORMATION

DOT(Department of Transportation) : Not a Hazardous Material for DOT shipping as the mixture.

④; PROPER SHIPPING NAME : Sodium azide
HAZARD CLASS : Toxic materials (Class 6.1)
IDENTIFICATION NUMBER : UN1687

IATA : Not Restricted as the mixture.

④; PROPER SHIPPING NAME : Sodium azide
CLASS or DIVISION : Toxic substances (Division 6.1)
UN or ID No. : UN1687

15. REGULATORY INFORMATION

②; Canad. WHMIS IDL 1% conc.

④; EPA: CERCLA RQ= 1000 lb, TPQ= 500 lb
EPCRA section 313 de minimis concentration is 1.0%

TSCA CHIPs, RCRA Haz., RCRA First Third Wast., CERCLA Haz. Subst., SARA III/302 Extre. Haz. Subst., SARA III/313 Tox. Chem., NTP Test. Prog., DOT Haz. Mat., DOT Haz. Subst. and Rep. Quant., Canad. WHMIS IDL 1% conc., Mass. Subst. List, New Jers. RTK Haz. Subst. List, Penn. Haz. Subst. List

①, ③; Not listed

EPA TSCA Inventory : ①, ②, ③, ④= Listed
EINECS Number : ①= 2478521, ②= 2347224, ③= 2742726, ④= 2478521

16. OTHER INFORMATION

②; EPA GENETOX PROGRAM 1986, Positive: B subtilis rec assay
④; EPA GENETOX PROGRAM 1986, Positive: Histidine reversion-Ames Test

This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill, as their own discretion and risk. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Wako shall not be held liable for any damage resulting from handling or from contact with the above material.