



HAZARD COMMUNICATION

Controlled Substance Color Test Chemicals

Reference for Exposure, Target Organ Data

- (1) NIOSH Pocket Guide, June 1997
- (2) Genium Publishing Corp., MSDS Release 56, 2001
- (3) Manufacturer's MSDS

Abbreviations

CNS: Central Nervous System
CVS: Cardiovascular System
Cor: Corrosive
Flm: Flammable
N/A: Not Applicable
Ox: Oxidizer
Rea: Reactive; may release toxic gas when mixed with acid



Color Test	Reagent	Physical Hazards	Symptoms of Exposure	Target Organs	Ref.
Chen's	Copper Sulfate	N/A	Eye/Skin/Respiratory Irritation, Eczema	Eye/Skin/Respiratory/ Liver/Kidney/Blood	2
	Acetic Acid	Cor/Flm	Eye/Skin/Respiratory Irritation, Skin Burns	Eye/Skin/Respiratory	1
	Sodium Hydroxide	Cor	Eye/Skin/Respiratory Irritation, Skin Burns	Eye/Skin/Respiratory	1
Cobalt Thiocyanate	Cobalt thiocyanate	N/A	Eye/Skin/Respiratory Irritation, Dermatitis	Eye/Skin/Respiratory/Thyroid	3
	Methanol	Flm	Eye/Skin/Respiratory Irritation, Headache, Dizziness	Eye/Skin/Respiratory/CNS	1
	Cobalt acetate	N/A	Eye/Skin/Respiratory Irritation, Cough, Shortness of breath	Eye/Skin/Respiratory	2
	(alternative method)				
Dille-Koppanyi	Cobalt acetate	N/A	Eye/Skin/Respiratory Irritation, Cough, Shortness of breath	Eye/Skin/Respiratory	2
	Acetic Acid	Cor/Flm	Eye/Skin/Respiratory Irritation, Skin Burns	Eye/Skin/Respiratory	1
	Methanol	Flm	Eye/Skin/Respiratory Irritation, Headache, Dizziness	Eye/Skin/Respiratory/CNS	1
	Isopropylamine	Flm	Eye/Skin/Upper Respiratory Irritation, Skin burns	Eye/Skin/Respiratory	1
Duquenois-Levine	Petroleum Ether	Flm	Eye/Skin/Respiratory Irritation, Dermatitis, CNS	Eye/Skin/Respiratory/CNS	1
	Vanillin	N/A	Eye/Skin Irritation, Nausea, Weakness	Eye/Skin/Respiratory	3
	Ethanol	Flm	Eye/Skin Irritation, Headache, Drowsiness	Eye/Skin/Respiratory/CNS	1
	Methanol	Flm	Eye/Skin/Respiratory Irritation, Headache, Dizziness	Eye/Skin/Respiratory/CNS	1
	Concentrated Hydrochloric Acid	Cor	Eye/Skin/Respiratory Irritation, Skin Burns	Eye/Skin/Respiratory	1
	Chloroform	N/A	Eye/Skin Irritation, Dizziness, Nausea	Eye/Skin/Respiratory/CNS/ Liver/Kidney	1
Froehde	Sodium Molybdate	Cor	Eye/Skin/Respiratory Irritation	Eye/Skin/Respiratory/Fetus	3
	Sulfuric Acid	Cor/Ox	Eye/Skin/Upper Respiratory Irritation, Skin Burns, Bronchitis	Eye/Skin/Respiratory/Teeth	1
GHB	Cobalt Nitrate	Ox	Eye/Skin/Respiratory Irritation, Cough, Difficulty Breathing	Eye/Skin/Respiratory/Heart/Thyroid	2
	Ferric Chloride	Cor	Eye/Skin/Respiratory Irritation, Difficulty Breathing	Eye/Skin/Respiratory	2
	Methanol	Flm	Eye/Skin/Respiratory Irritation, Headache, Dizziness	Eye/Skin/Respiratory/CNS	1
Janousky	m-Dinitrobenzene	N/A	Anoxia, Cyanosis, Bad Taste, Visual Disturbance	Eye/Skin/Respiratory/Blood/ Liver/CVS/CNS	1
	Methanol	Flm	Eye/Skin/Respiratory Irritation, Headache, Dizziness	Eye/Skin/Respiratory/CNS	1
Mandelin	Ammonium Vanadate	N/A	Eye/Skin/Respiratory Irritation, Cough	Eye/Skin/Respiratory	2
	Sulfuric Acid	Cor/Ox	Eye/Skin/Upper Respiratory Irritation, Skin Burns, Bronchitis	Eye/Skin/Respiratory/Teeth	1
Marquis	Formaldehyde	Cor	Eye, Upper Respiratory Irritation, Cough	Eye/Skin/Respiratory	1
	Sulfuric Acid	Cor/Ox	Eye/Skin/Upper Respiratory Irritation, Skin Burns, Bronchitis	Eye/Skin/Respiratory/Teeth	1
Mecke	Selenious Acid	Cor/Ox	Eye/Skin/Respiratory Irritation	Eye/Skin/Respiratory	2
	Sulfuric Acid	Cor/Ox	Eye/Skin/Upper Respiratory Irritation, Skin Burns, Bronchitis	Eye/Skin/Respiratory/Teeth	1
Nitroprusside/Simon's	Sodium Nitroferricyanide	Rea	Eye/Skin/Respiratory Irritation	Eye/Skin/Respiratory/Blood	3
	Acetaldehyde	Flm	Eye/Skin/Upper Respiratory Irritation, Skin Burns, CNS Depression	Eye/Skin/Respiratory/Kidney/ CNS/Reproductive	1
	Sodium Carbonate	Cor	Eye/Skin/Respiratory Irritation	Eye/Skin/Respiratory	1
Sanchez	Furfural	Flm	Eye/Skin/Upper Respiratory Irritation, Headache, Dermatitis	Eye/Skin/Respiratory	1
	Methanol	Flm	Eye/Skin/Respiratory Irritation, Headache, Dizziness	Eye/Skin/Respiratory/CNS	1
Scott's Test	Cobaltous thiocyanate	N/A	Eye/Skin/Respiratory Irritation, Nausea, Headache	Eye/Skin/Respiratory/Thyroid	3
	Glycerine	N/A	MIST: Eye/Skin/Respiratory Irritation, Headache	Eye/Skin/Respiratory/Kidney	1
	Concentrated Hydrochloric Acid	Cor	Eye/Skin/Respiratory Irritation, Skin Burns	Eye/Skin/Respiratory	1
	Chloroform	N/A	Eye/Skin Irritation, Dizziness, Nausea	Eye/Skin/Respiratory/CNS/Liver/Kidney	1
Stannous Chloride	Stannous Chloride	Cor	Eye/Skin/Respiratory Irritation	Eye/Skin/Respiratory	2
	Hydrochloric Acid	Cor	Eye/Skin/Respiratory Irritation, Skin Burns	Eye/Skin/Respiratory	1
Van Urk's/Erlick's	p-Dimethylaminobenzaldehyde	N/A	Eye/Skin/Respiratory Irritation	Eye/Skin/Respiratory	3
	Ethanol	Flm	Eye/Skin Irritation, Headache, Drowsiness	Eye/Skin/Respiratory/CNS	1
	Concentrated Hydrochloric Acid	Cor	Eye/Skin/Respiratory Irritation, Skin Burns	Eye/Skin/Respiratory	1
Wagner's	Iodine	Cor/Ox	Eye/Skin/Respiratory Irritation	Eye/Skin/Respiratory/Liver/Kidney/Heart/Blood	1
	Potassium iodide	N/A	Eye/Skin/Respiratory Irritation	Eye/Skin/Respiratory	2
Weber	Fast Blue 2B	N/A	Eye/Skin/Respiratory Irritation	Eye/Skin/Respiratory	3
	Concentrated Hydrochloric Acid	Cor	Eye/Skin/Respiratory Irritation, Skin Burns	Eye/Skin/Respiratory	1