

Chemical Classification Form – Completed Sample

COMMON NAME	CHEMICAL NAME and % composition	CAS# ¹	MATERIAL FORM; solid, liquid, or gas	QUANTITY STORED ²	QUANTITY IN USE ² (Open vs. Closed)	TOTAL QUANTITY ² (Storage & Use)	LOCATION(S) (Storage & Use)	FIRE CODE HAZARD CLASSES; Physical & Health Hazards
Acetic Acid	Acetic Acid, Glacial – 100%	64-19-7	Liquid	15 gal	5 gal, Open System	20 gal	Stor: Flam Cab Use: Wet Process	Class II Combustible/Corrosive
Acetone	2-propanone	67-64-1	Liquid	55 gal	10 gal, Open System	65 gal	Stor: Exter Stor Use: H-2 Room	Class I-B Flammable
Acetylene, Compressed	Acetylene – 100%	74-86-2	Gas	200 cf	200 cf, Closed System	400 cf	Stor: Weld Shop, Use: Weld Shop	Flammable Gas/Class 1 Unstable Reactive
Benzene	Benzene	74-13-2	Liquid	5 gal	1 gal, Open System	6 gal	Stor: Flam Cab Use: Lab	Class I-B Flammable
Formaldehyde with Methanol	Formaldehyde 37%, Methanol 15%, Water 52%	50-00-0 67-56-1	Liquid	110 gal	55 gal, Open System	165 gal	Stor: Exter Stor Use: H2 Room	Class II Combustible/Toxic
Hydrochloric Acid	Hydrochloric Acid – 100%	7647-01-0	Liquid	300 gal	55 gal, Closed System	355 gal	Stor: Corr Stor Use: Wet Process	Corrosive
Isopropanol	Isopropyl Alcohol – 100%	67-63-0	Liquid	15 gal	3 gal, Open System	18 gal	Stor: Flam Cab Use: Lab	Class I-B Flammable
Nitric Acid	Nitric Acid 10% Water 90%	7697-37-2	Liquid	55 gal	10 gal, Open System	65 gal	Stor: Corr Stor, Use: Wet Process	Class 1 Oxidizer/Corrosive
Sodium Dichromate	Sodium dichromate, anhydrous	10588-01-9	Solid	50 lb	10 lb, Open System	60 lb	Stor: H-7 Room Use: H-7 Room	Corrosive / Highly Toxic /Class 1 Oxidizer

¹ % of concentration per CAS #, from MSDS sheets

² Quantities of products shall be represented in pounds for solids, gallons for liquids, and cubic feet for gases

SAMPLE

CHEMICAL CLASSIFICATION SUMMARY – BY HAZARD CLASSIFICATION

HAZARD CLASS: Class I-B Flammable Liquid

<u>Chemical Name</u>	<u>Amt Stored</u>	<u>O.S. Use</u>	<u>C.S. Use</u>	<u>Total quantity</u>	<u>Location of Storage</u>	<u>Location of Use</u>
Acetone	55 gal	10 gal	0 gal	10 gal	Exterior Storage	H-2 Room
Benzene	5 gal	1 gal	0 gal	6 gal	Flammable Cabinet	H-2 Room
Isopropyl Alcohol	15 gal	3 gal	0 gal	18 gal	Flammable Cabinet	Laboratory

Interior Storage: 20 gal Exterior Storage: 55 gal Open System Use: 14 gal Closed System Use: 0 gal

HAZARD CLASS: Class II Combustible Liquid

<u>Chemical Name</u>	<u>Amt Stored</u>	<u>O.S. Use</u>	<u>C.S. Use</u>	<u>Total quantity</u>	<u>Location of Storage</u>	<u>Location of Use</u>
Acetic Acid	15 gal	5 gal	0 gal	20 gal	Flammable Cabinet	Wet Process
Formaldehyde Mixture	110 gal	55 gal	0 gal	165 gal	Exterior Storage	H-2 Room

Interior Storage: 0 gal Exterior Storage: 110 gal Open System Use: 60 gal Closed System Use: 0 gal

HAZARD CLASS: Flammable Gas

<u>Chemical Name</u>	<u>Amt Stored</u>	<u>O.S. Use</u>	<u>C.S. Use</u>	<u>Total quantity</u>	<u>Location of Storage</u>	<u>Location of Use</u>
Acetylene	200 cf	0 cf	200 cf	200 cf	Weld Shop	Weld Shop

Interior Storage: 200 cf Exterior Storage: 0 gal Open System Use: 0 cf Closed System Use: 200 cf

HAZARD CLASS: Class 1 Oxidizer

<u>Chemical Name</u>	<u>Amt Stored</u>	<u>O.S. Use</u>	<u>C.S. Use</u>	<u>Total quantity</u>	<u>Location of Storage</u>	<u>Location of Use</u>
Nitric Acid	55 gal	10 gal	0 gal	65 gal	Corrosive Storage	Wet Process
Sodium Chromate	50 lb	10 lb	0 lb	60 lb	H-7 Room	H-7 Room

Interior Storage: 55 gal/50 lb Exterior Storage: 0 gal/0 lb Open System Use: 10gal/10 lb Closed System Use: 0 gal/lb

SAMPLE

HAZARD CLASS: Class 1 Unstable Reactive

<u>Chemical Name</u>	<u>Amt Stored</u>	<u>O.S. Use</u>	<u>C.S. Use</u>	<u>Total quantity</u>	<u>Location of Storage</u>	<u>Location of Use</u>
Acetylene	200 cf	0 cf	200 cf	200 cf	Weld Shop	Weld Shop

Interior Storage: 200 cf Exterior Storage: 0 gal Open System Use: 0 cf Closed System Use: 200 cf

HAZARD CLASS: Class 1 Water Reactive

<u>Chemical Name</u>	<u>Amt Stored</u>	<u>O.S. Use</u>	<u>C.S. Use</u>	<u>Total quantity</u>	<u>Location of Storage</u>	<u>Location of Use</u>
Sodium Hydroxide	50 lb	7 lb	0 lb	57 lb	Corrosive Storage	Wet Process

Interior Storage: 50 lb Exterior Storage: 0 lb Open System Use: 7 lb Closed System Use: 0 lb

HAZARD CLASS: Highly Toxic

<u>Chemical Name</u>	<u>Amt Stored</u>	<u>O.S. Use</u>	<u>C.S. Use</u>	<u>Total quantity</u>	<u>Location of Storage</u>	<u>Location of Use</u>
Sodium Chromate	50 lb	10 lb	0 lb	60 lb	H-7 Room	H-7 Room

Interior Storage: 50 lb Exterior Storage: 0 lb Open System Use: 7 lb Closed System Use: 0 lb

HAZARD CLASS: Toxic

<u>Chemical Name</u>	<u>Amt Stored</u>	<u>O.S. Use</u>	<u>C.S. Use</u>	<u>Total quantity</u>	<u>Location of Storage</u>	<u>Location of Use</u>
Formaldehyde Mixture	110 gal	55 gal	0 gal	165 gal	Exterior Storage	H-2 Room

Interior Storage 0 gal Exterior Storage: 110 gal Open System Use: 55 gal Closed System Use: 0 gal

SAMPLE

HAZARD CLASS: Corrosive

Chemical Name	Amt Stored	O.S. Use	C.S. Use	Total quantity	Location of Storage	Location of Use
Acetic Acid	15 gal	5 gal	0 gal	20 gal	Flammable Cabinet	Wet Process
Hydrochloric Acid	300 gal	0 gal	55 gal	355 gal	Corrosive Storage	Wet Process
Nitric Acid	55 gal	10 gal	0 gal	65 gal	Corrosive Storage	Wet Process
Sodium Chromate	50 lb	10 lb	0 lb	60 lb	H-7 Room	H-7 Room
Sodium Hydroxide	50 lb	7 lb	0 lb	57 lb	Corrosive Storage	Wet Process

Interior Storage: 370 gal/ 100 lb Exterior Storage: 0 gal/0 lb Open System Use: 15 gal/17 lb Closed System Use: 55 gal/0 lb

SAMPLE

CHEMICAL CLASSIFICATION SUMMARY – BY AREA

Class I-B Flammable:

Interior Storage: 20 gal
Exterior Storage: 55 gal
Open System Use 14 gal

Flammable Gas:

Interior Storage: 200 cf
Closed System Use: 200 cf

Class 1 Water Reactive:

Open System Use: 0 gal, 7 lb

Toxic:

Exterior Storage: 110 gal
Open System Use: 55 gal

Corrosive:

Interior Storage: 370 gal, 100 lb
Open System Use: 15 gal, 27 lb
Closed System Use: 55 gal, 0 lb

Class II Combustible:

Exterior Storage: 110 gal
Open System Use: 60 gal

Class 1 Oxidizer:

Interior Storage: 55 gal, 50 lb
Open System Use: 10 gal, 10 lb

Class 1 Unstable Reactive:

Interior Storage: 200 cf
Closed System Use: 200 cf

Highly Toxic:

Interior Storage: 50 lb
Open System Use: 10 lb

SAMPLE

Interior Storage:

Flam 1B liq	20 gal
Flam Gas	200 cf
Class 1 Oxidizer	55 gal, 50 lb
Class 1 Unstable Reactive	200 cf
Corrosive	370 gal, 100 lb
Highly Toxic	50 lb

Open System Use:

Flam 1B liq	14 gal
Class 1 Water-Reactive	7 lb
Toxic	55 gal
Corrosive	15 gal, 27 lb
Comb 11 liq	60 gal
Class 1 Oxidizer	10 gal, 10 lb
Highly Toxic	10 lb

Closed System Use:

Flam gas	200 cf
Corrosive	55 gal
Class 1 Unstable Reactive	200 cf

INTERIOR TOTAL: ** CLOSED SYSTEM USE MAY BE INCLUDED IN STORAGE TOTALS; CONSULT CFC FOR DETAILS

Flam 1B liq	34 gal
Class 1 Water-Reactive	7 lb
Toxic	55 gal
Corrosive	440 gal, 127 lb
Comb 11 liq	60 gal
Class 1 Oxidizer	65 gal, 60 lb
Highly Toxic	60 lb
Flam gas	200 cf
Class 1 Unstable Reactive	200 cf

Exterior Storage:

Flam 1B liq	55 gal
Comb 11 liq	110 gal
Toxic	110 gal