

## ACIDS AND DETERGENTS

1. Which substances are dangerous to mix?

A)  
Descaler - Bleach

B)  
Descaler – hydrochloric acid

C)  
Solid soap – liquid soap

D)  
Hydrochloric acid - bleach

2. Which ones contain acid?

A: Caustic soda; B: hydrochloric acid; C: lemon; D: soap, E: descaler

.....

3. Indicate if the statement is true or false. T/F.

A: Acids don't react with base. ....

B: We have to drink much fizzy drinks.....

C: Acids contain more  $H^+$  ion, than  $OH^-$  ion.....

D: Acids were just discovered.....

E: The pH value of acids is bigger than 7 .....

F: Acids don't react with gold.....

G: We must be careful while working with acids.....

4. Write the common names of the following acids.

A: HCl .....

B:  $H_2SO_4$  .....

C:  $HNO_3$  .....

D:  $CH_3COOH$  .....

E:  $HCOOH$  .....

5. Which of the following metals don't react with acids?

A: sodium

B: potassium

C: Lithium

D: Platinum

6. Which of the following materials is most harmful for the soil?

A)  
parts of glass

B)  
fruit cover

C)  
Detergents

D)  
Animal fertilizer

7. Indicate if the statement is true or false. T/F.

A: We should frequently use detergents. ....

B: Detergents do not present a risk to health ....

C: Detergents are efficient in hard water ....

D: Detergents give less harm to environment than soaps .....

E: Detergents are surface active agents. ....

F: Soaps are more efficient than detergents ....

G: Soap should be used for environmental health. ....

H: Detergent is a petroleum product .....

I: Soap and detergent are water soluble because they are polar.

8. Which of the followings are true for the detergents?

A: They are natural substances

B: They are efficient in hard water;

C: They are harmful for the environment;

D: They are soaps

E: They are strong acids



## Solution

1- Descaler – Bleach / Hydrochloric acid – bleach

2- Hydrochloric acid, lemon, descaler

3-

A)	B)	C)	D)	E)	F)	G)
F	F	T	F	F	T	T

4-

A)	B)	C)	D)	E)
Hydrochloric acid	Sulphuric acid	Nitric Acid	Vinegar	Formic acid

5- D

6. detergents

7.

A)	B)	C)	D)	E)	F)	G)	H)	I)
F	F	T	F	T	F	T	T	T

8. B, C