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[Chapter 35. Construction and Jobsite Safety.](#)

Practice Problems

[1.](#)

The ACGIH threshold limit value (TLV) by volume for eight hours of carbon monoxide exposure is

(A)

10 ppm

(B)

25 ppm

(C)

35 ppm

(D)

50 ppm

[2.](#)

Which of the following will NOT form a flammable or explosive mixture with air?

(A)

fly ash or portland cement dust

(B)

coal dust

(C)

whey dust

(D)

cellulose

[3.](#)

Which type of work glove is suitable for working with temperatures up to 500°C and flames?

(A)

aluminized gloves

(B)

impervious gloves

(C)

leather gloves

(D)

metal mesh gloves

[4.](#)

According to the OSHA *Hazard Communication Standard* (OSHA 1910.1200), which of the following data is NOT compulsory on a safety data sheet?

(A)

flash point

(B)

vapor pressure

(C)

enthalpy of sublimation

(D)

odor threshold

[5.](#)

According to OSHA *Hazard Communication Standard* (HCS), which information is NOT required in Section 2 of a safety data sheet?

(A)

chemical name

(B)

signal word

(C)

hazard statement

(D)

symbol(s) and precautionary statement(s)

Solutions

[1.](#)

The ACGIH TLV values can be found in *NCEES Handbook: Risk Assessment/Toxicology*. For carbon monoxide, the value is 25 ppm.

*The answer is (B).*

[2.](#)

Dust explosions require a combustible material. Fly ash and cement dust will not form a flammable or explosive mixture when exposed to air. The explosive thresholds for the other three dusts can be found in *NCEES Handbook: Combustible Dust*.

*The answer is (A).*

3.

Aluminized gloves are resistant to very high temperatures because they reflect most of the radiant heat.

The answer is (A).

4.

According to the OSHA *Hazard Communication Standard*, information about the enthalpy of sublimation is not required.

The minimum information given about the physical and chemical properties of a chemical substance consists of

- appearance
- upper/lower flammability or explosive limits
- odor
- vapor pressure
- odor threshold
- vapor density
- pH
- relative density
- melting point/freezing point
- solubility
- initial boiling point and boiling range
- flash point
- evaporation rate
- flammability
- partition coefficient
- auto-ignition temperature
- decomposition temperature
- viscosity

The answer is (C).

5.

The chemical name is required in Section 3 of a safety data sheet, not Section 2.

The answer is (A).