

QUICK ReferenceChart

OSHA/GHS HAZARD COMMUNICATION STANDARD

HAZARD PICTOGRAMS



EXPLODING BOMB

- Explosives
- Self-Reactives
- Organic Peroxides



FLAME OVER CIRCLE

- Oxidizers



FLAME

- Flammable
- Pyrophoric
- Self-Heating

- Debris Flammable Gas
- Self-Reactives
- Organic Peroxides



CORROSION

- Skin Corrosion/Burns
- Eye Damage
- Corrosive to Metals



SKULL AND CROSSBONES

- Acute Toxicity (Fatal or Toxic)



HEALTH HAZARDS

- Carcinogen
- Mutagenicity
- Reproductive Toxicity

- Respiratory Sensitizer
- Targeted Organ Toxicity
- Aspiration Toxicity



ENVIRONMENT

- Aquatic Toxicity



GAS CYLINDER

- Gases Under Pressure



EXCLAMATION MARK

- Irritant (Skin and Eye)
- Skin Sensitizer
- Acute Toxicity (Harmful)
- Narcotic Effects

- Respiratory Tract Irritant
- Hazards to Ozone Layer (Non-Mandatory)

PRECAUTIONARY STATEMENTS

PREVENTION: Statements meant to prevent harm.
EXAMPLE: Do not get in eyes, on skin, or on clothing.

STORAGE: Statements explaining safe storage.
EXAMPLE: Store in a well-ventilated place.

RESPONSE: Statements giving instructions in case of exposure to a chemical hazard.
EXAMPLE: Rinse skin with water (Gaseous).

DISPOSAL: Statements explaining proper disposal practices.
EXAMPLE: Dispose of contents/container to _____

MINIMUM REQUIREMENTS FOR A SAFETY DATA SHEET

- IDENTIFICATION:** This section identifies the chemical on the SDS as well as the recommended uses. It also provides the essential contact information of the supplier.
- HAZARDOUS IDENTIFICATION:** This section identifies the hazards of the chemical, presented on the SDS and the appropriate warning information associated with these hazards.
- COMPOSITION/INFORMATION ON INGREDIENTS:** This section identifies the ingredients contained in the product indicated on the SDS, including impurities and stabilizing additives. This section includes information on mixtures, mixtures, and all chemicals where a trade secret is claimed.
- FIRST-AID MEASURES:** This section describes the initial care that should be given by untrained responders to an individual who has been exposed to the chemical.
- FIREFIGHTING MEASURES:** This section provides recommendations for fighting a fire caused by the chemical.
- ACCIDENTAL RELEASE MEASURES:** This section provides recommendations on the appropriate response to spills, leaks, or releases, including containment and cleanup practices to prevent or minimize exposure to people, properties or the environment. It may also include appropriate actions distinguishing between responders for large and small spills where the spill volume has a significant impact on the hazard.
- HANDLING AND STORAGE:** This section provides guidance on the safe handling practices and conditions for safe storage of the chemical.
- EXPOSURE CONTROLS/PERSONAL PROTECTION:** This section indicates the exposure limits, engineering controls, and personal protective measures that can be used to minimize worker exposure.
- PHYSICAL AND CHEMICAL PROPERTIES:** This section identifies physical and chemical properties associated with the substance or mixture.

- STABILITY AND REACTIVITY:** This section describes the reactivity hazards of the chemical and the chemical stability information. This section is broken into three parts: reactivity, chemical stability, and other.
- TOXICOLOGICAL INFORMATION:** This section identifies toxicological and health effects information or indicates that such data are not available.
- ECOLOGICAL INFORMATION (NON-MANDATORY):** This section provides information to evaluate the environmental impact of the chemical if it were released into the environment.
- DISPOSAL CONSIDERATIONS (NON-MANDATORY):** This section provides guidance on proper disposal practices, including, or recommendations of the chemical as it is disposed, and safe handling practices. To ensure exposure, this section should also refer to Section 8 (Exposure Controls/Personal Protection) of the SDS.
- TRANSPORT INFORMATION (NON-MANDATORY):** This section provides guidance on disposal of use information for shipping and transporting of hazardous chemicals by road, air, rail, or sea.
- REGULATORY INFORMATION (NON-MANDATORY):** This section identifies the safety, health, and environmental regulations specific to the product that are not indicated anywhere else on the SDS.
- OTHER INFORMATION:** This section indicates when the SDS was prepared or when the last known revision was made. The SDS may also state where the changes have been made to the previous version. You may wish to contact the supplier for an explanation of the changes. Other useful information also may be included here. While labels have a six-month update requirement for information regarding hazards, the new SDS has a three-month requirement. GHS pictograms may be used in the SDS; the symbol name may be substituted if use of the pictogram is not feasible. Also, the manufacturer or importer must ensure the SDS is provided in Spanish and must provide copies in other languages, as applicable.

MINIMUM REQUIREMENTS FOR A CHEMICAL LABEL



PENTANE
CAS 109-65-0

DANGER

Extremely flammable gas. Contains gas under pressure. May explode if heated. Gas may require a special fire-extinguisher.

Keep away from heat, open flames, hot surfaces. No smoking. Protect from sunlight. Store in a well-ventilated place. Leaking gas fire: Do not extinguish unless the leak can be stopped safely. Complete extinguishment should be attained. Gas contact: For compressed gas, flush eyes with lukewarm water. Seek immediate attention. Skin contact: Unpressurized gases may cause cryogenic burns. Test burned or frostbitten skin by flushing or covering the affected area(s). Unknown cause: Do not rub the affected area. Inhalation: If respiratory equipment is available, move the victim away from the source of exposure and into fresh air. Seek medical attention.

Company XYZ | 10000 N. Linden Ave., Miami, CA 30000000000000000000

- GHS Pictograms:** Standardized set of symbols which convey health, physical, and environmental hazard information.
- Product Identifier:** Name or number used for a hazardous product on a label or in the SDS.
- Signal Words:** "Danger" or "Warning" are used to emphasize hazards and indicate the relative level of severity of the hazard assigned to a GHS hazard class and category.
- Hazard Statements:** Standard phrases assigned to a hazard class and category that describe the nature of the hazard.
- Precautionary Statements:** Measures to minimize or prevent adverse effects.
- Supplier Identification:** Company name, address, and phone number should be listed on the label.

Osha Quick Reference Guide

Amer Assoc of Public Health Dentistry

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the text 'Amer Assoc of Public Health Dentistry'.

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web we used mole fractions in gen chem 1 to describe gas mixtures where the partial pressure of a gas was its mole fraction time the total pressure $p_a = x_a p_t$ mole fraction $x_a = \frac{\text{moles } a}{\text{moles total}}$ $\sum n_i = 1$ all $x_i = 1$ mole fraction of substance a is often denoted by x_a and

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web nov 6 2023 $x_a \text{ mol } a \text{ mol } b$ and $x_b \text{ mol } b \text{ mol } a$ note in the given mixture the sum of all the mole fractions present is equal to one $x_a + x_b = 1$ when the mole fractions are multiplied by 100 they give the mole percentage mole fraction is

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web jan 30 2020 ans the molality of solution is 1 mol kg 1 or 1 m example 02 11 11 g of urea NH_2CONH_2 was dissolved in 100 g of water calculate the molarity and molality of the solution given n 14 h 1 c 12 o 16 given mass of solute urea 11 11 g mass of solvent water 100 g 0 1 kg to find molarity of solution solution

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web you may work out the mole fractions on your own problem 5 what is the mass of a sample of a 0 449 molal kbr that contains 2 92 kg of water 1 molality moles solute divided by kilograms solute $\frac{0.449 \text{ mol}}{2.92 \text{ kg}} \times 131.108 \text{ g/mol}$ of kbr 2 moles times molar mass equals grams $131.108 \text{ mol} \times 119.0023 \text{ g/mol}$ 156 g kbr

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web calculate the mass percent mole fraction molality and molarity of hexane C_6H_{14} d 0 660 g cm^{-3} when it is mixed with heptane C_7H_{16} d 0 684 g cm^3 in a 35 0 55 0 ml ratio assume that the volumes are additive

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web notice that the mole fraction has no units on it and is written as a decimal value do not change it to percent note of caution you could see the term mole percent it is simply the mole fraction multiplied by 100 for example in the problem just below the mole fraction of cinnamic acid is 0 2885 its mole percent would be 28 85

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web since the mole fraction of the o₂ is 0.050 it contributes 0.050 or if you will 5.0 of the total pressure thus total pressure is 0.21 0.050 4.2 atm problem 9 a sample of 1.43 g of helium and an unweighed quantity of o₂ are mixed in a flask at room temperature

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