

Risk phrases used in the classification, packaging, labelling and provision of information on dangerous substances. Phrases indicate the risks from the danger involved in using the substance.

R1:	Explosive when dry
R2:	Risk of explosion by shock, friction fire or other sources of ignition
R3:	Extreme risk of explosion by shock friction, fire or other sources of ignition
R4:	Forms very sensitive explosive metallic compounds
R5:	Heating may cause an explosion
R6:	Explosive with or without contact with air
R7:	May cause fire
R8:	Contact with combustible material may cause fire
R9:	Explosive when mixed with combustible material
R10:	Flammable
R11:	Highly flammable
R12 :	Extremely flammable
R13:	Extremely flammable liquefied gas
R14:	Reacts violently with water
R15:	Contact with water liberates highly flammable gases
R16:	Explosive when mixed with oxidising substances
R17:	Spontaneously flammable in air
R18:	In use, may form flammable/explosive vapour-air mixture
R19:	May form explosive peroxides
R20:	Harmful by inhalation
R21:	Harmful in contact with skin
R22:	Harmful if swallowed
R23:	Toxic by inhalation
R24:	Toxic in contact with skin
R25:	Toxic if swallowed
R26:	Very toxic by inhalation
R27:	Very toxic in contact with skin
R28:	Very toxic if swallowed
R29:	Contact with water liberates toxic gas
R30:	Can become highly flammable in use
R31:	Contact with acids liberates toxic gas
R32:	Contact with acids liberates very toxic gas
R33:	Danger of cumulative effects
R34:	Causes burns
R35:	Causes severe burns
R36:	Irritating to eyes
R37:	Irritating to respiratory system
R38:	Irritating to skin
R39:	Danger of very serious irreversible effects
R40:	Possible risk of irreversible effects
R41:	Risk of serious damage to eyes
R42:	May cause sensitisation by inhalation
R43:	May cause sensitisation by skin contact
R44:	Risk of explosion if heated under confinement
R45:	May cause cancer

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R46:	May cause heritable genetic damage
R47:	May cause birth defects
R48:	Danger of serious damage to health by prolonged exposure
R49:	May cause cancer by inhalation
R50:	Very toxic to aquatic organisms
R51:	Toxic to aquatic organisms
R52:	Harmful to aquatic organisms
R53:	May cause long-term adverse effects in the aquatic environment
R54:	Toxic to flora
R55:	Toxic to fauna
R56:	Toxic to soil organisms
R57:	Toxic to bees
R58:	May cause long-term adverse effects in the environment
R59:	Dangerous to the ozone layer
R60:	May impair fertility
R61:	May cause harm to the unborn child
R62:	Possible risk of impaired fertility
R63:	Possible risk of harm to the unborn child
R64:	May cause harm to breastfed babies

#### Combination of risks

R14/15:	Reacts violently with water, liberating highly flammable gases
R15/29:	Contact with water liberates toxic, highly flammable gas
R20/21:	Harmful by inhalation and in contact with skin
R20/21/22:	Harmful by inhalation, in contact with skin and if swallowed
R20/22:	Harmful by inhalation and if swallowed
R21/22:	Harmful in contact with skin and if swallowed
R23/24:	Toxic by inhalation and in contact with skin
R23/24/25:	Toxic by inhalation, in contact with skin and if swallowed
R23/25:	Toxic by inhalation and if swallowed
R24/25:	Toxic in contact with skin and if swallowed
R26/27:	Very toxic by inhalation and in contact with skin
R26/27/28:	Very toxic by inhalation, in contact with skin and if swallowed
R26/28:	Very toxic by inhalation and if swallowed
R27/28:	Very toxic in contact with skin and if swallowed
R36/37:	Irritating to eyes and respiratory system
R36/37/38:	Irritating to eyes, respiratory system and skin
R36/38:	Irritating to eyes and skin
R37/38:	Irritating to respiratory system and skin
R42/43:	May cause sensitisation by inhalation and skin contact.
R48/20:	Harmful: danger of serious damage to health by prolonged exposure
R48/20/21:	Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with the skin
R48/20/21/22:	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed



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- R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, and if swallowed
- R48/21: Harmful: danger of serious damage to health by prolonged exposure in contact with skin
- R48/21/22: Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
- R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed
- R48/23: Toxic: danger of serious damage to health by prolonged exposure through inhalation
- R48/23/24: Toxic: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin
- R48/23/24/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
- R48/23/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed
- R48/24: Toxic: danger of serious damage to health by prolonged exposure in contact with skin
- R48/24/25: Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
- R48/25: Toxic: danger of serious damage to health by prolonged exposure if swallowed
- R50/53: Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
- R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
- R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment