

# HAZARDOUS MATERIALS WORKSHEET

## For International Fire Code Classification

For questions concerning this form contact Will Winslow at (425) 271-2622 or will-winslow@comcast.net

**NOTE:** NFPA ratings may vary based on amount or site conditions. This form was modified from a worksheet prepared by Mike Trabue of the Redmond Fire Department  
 2006 International Fire Code; 2000 Uniform Fire Code, Appendix V1-C, Hazard Ranking; NFPA 704

**References:**

| HEALTH HAZARDS<br><small>(29 CFR 19.10.1200)</small> |   |  |  | PHYSICAL HAZARDS                   |   |   |   |  |  |  |  |  |  |   |  |
|--|---|--|--|------------------------------------|---|---|---|--|--|--|--|--|--|---|--|
| NFPA RATING  |  | ORAL<br><small>LIQUIDS, SOLIDS</small> | DERMAL<br><small>LIQUIDS, SOLIDS</small> | INHALATION<br><small>GASES</small> | SKIN, EYE, OR LUNG<br><small>LIQUIDS, SOLIDS, GASES</small>   | FLAMMABLE AND COMBUSTIBLE LIQUIDS                 | PYROPHORIC  | ORGANIC PEROXIDE                       | UNSTABLE REACTIVE  | WATER REACTIVE   | OXIDIZER   |  |  |   |  |
|  |   | LD50 Rat<br>(Lethal Dose)              | LD50 Rabbit<br>(Lethal Dose)             | LC50 Rat<br>(Lethal Concentration) | A chemical that destroys or changes irreversibly the structure of the tissue at the point of contact following an exposure period of 4 hours to an albino rabbit. | ORGANIC PEROXIDE CLASS 1 (OP1) - F4/R3            | ORGANIC PEROXIDE CLASS 2 (OP2) - F3/R3  | ORGANIC PEROXIDE CLASS 3 (OP3) - F2/R2 | ORGANIC PEROXIDE CLASS 4 (OP4) - F1/R1   | ORGANIC PEROXIDE CLASS 5 (OP5) - NR  | ORGANIC PEROXIDE CLASS 1 (OP1) - F4/R3   | ORGANIC PEROXIDE CLASS 2 (OP2) - F3/R3   | ORGANIC PEROXIDE CLASS 3 (OP3) - F2/R2   | ORGANIC PEROXIDE CLASS 4 (OP4) - F1/R1  | ORGANIC PEROXIDE CLASS 5 (OP5) - NR  |
| 4  |  | >0 - 50 mg/kg                          | 0 - 200 mg/kg                            | >0 - 200 ppm                       | HIGHLY TOXIC (HTX) - H4   | FLAMMABLE CLASS 1A (F1A) - F4                     | PYROPHORIC GASES (PYR) - F4   | ORGANIC PEROXIDE CLASS 1 (OP1) - F4/R3 | UNSTABLE REACTIVE CLASS 4 (UR4) - R4   | WATER REACTIVE CLASS 3 (WR3) - R3AW  | OXIDIZER CLASS 4 (OX4) - OX  | WATER REACTIVE CLASS 3 (WR3) - R3AW  | UNSTABLE REACTIVE CLASS 3 (UR3) - R3   | ORGANIC PEROXIDE CLASS 2 (OP2) - F3/R3  | OXIDIZER CLASS 3 (OX3) - OX  |
| 3  |  | > 50 - 500 mg/kg                       | 0 - 200 mg/kg                            | > 0 - 2.0 mg/l                     | TOXIC (TX) - H3   | FLAMMABLE CLASS 1B & CLASS 1C (F1B & F1C) - F3    | PYROPHORIC SOLIDS/LIQUIDS (PYR) - F3  | ORGANIC PEROXIDE CLASS 2 (OP2) - F3/R3 | UNSTABLE REACTIVE CLASS 2 (UR2) - R2   | WATER REACTIVE CLASS 2 (WR2) - R2AW  | OXIDIZER CLASS 2 (OX2) - OX  | WATER REACTIVE CLASS 2 (WR2) - R2AW  | UNSTABLE REACTIVE CLASS 2 (UR2) - R2   | ORGANIC PEROXIDE CLASS 3 (OP3) - F2/R2  | OXIDIZER CLASS 2 (OX2) - OX  |
| 2  |  | > 200 - 1000 mg/kg                     | > 200 - 1000 mg/kg                       | > 200 - 2,000 ppm                  | CORROSIVE (COR) - H3/COR  | COMBUSTIBLE CLASS II & CLASS IIIA (C2 & C3A) - F2 | A chemical with an autoignition temp in air, at or below a temperature of 130° F  | ORGANIC PEROXIDE CLASS 4 (OP4) - F1/R1 | UNSTABLE REACTIVE CLASS 1 (UR1) - R1   | WATER REACTIVE CLASS 1 (WR1) - R1AW  | OXIDIZER CLASS 1 (OX1) - OX  | WATER REACTIVE CLASS 1 (WR1) - R1AW  | UNSTABLE REACTIVE CLASS 1 (UR1) - R1   | ORGANIC PEROXIDE CLASS 4 (OP4) - F1/R1  | OXIDIZER CLASS 1 (OX1) - OX  |
| 1  |  | >500 mg/kg                             | > 1000 mg/kg                             | > 2,000 ppm                        | DRAIZE TEST   | COMBUSTIBLE CLASS IIIB (C3B) - F1                 | A chemical that destroys or changes irreversibly the structure of the tissue at the point of contact following an exposure period of 4 hours to an albino rabbit. | ORGANIC PEROXIDE CLASS 5 (OP5) - NR    | MATERIALS THAT ARE NORMALLY STABLE BUT CAN BECOME UNSTABLE AT ELEVATED TEMPERATURES AND PRESSURE | MATERIALS THAT REACT VIGOROUSLY WITH WATER, BUT NOT VIOLENTLY. MATERIALS THAT REACT WITH WATER, PRODUCING EITHER HEAT OR GAS LEADING TO PRESSURIZATION OR TOXIC OR FLAMMABLE GAS HAZARDS | SLIGHTLY INCREASES THE BURNING RATE; DOES NOT CAUSE SPONTANEOUS IGNITION WHEN IT COMES IN CONTACT WITH COMBUSTIBLE MATERIALS | MATERIALS THAT REACT VIGOROUSLY WITH WATER, BUT NOT VIOLENTLY. MATERIALS THAT REACT WITH WATER, PRODUCING EITHER HEAT OR GAS LEADING TO PRESSURIZATION OR TOXIC OR FLAMMABLE GAS HAZARDS | MATERIALS THAT ARE NORMALLY STABLE BUT CAN BECOME UNSTABLE AT ELEVATED TEMPERATURES AND PRESSURE | BURN IN SAME MANNER AS ORDINARY COMBUSTIBLES AND POSE A MINIMAL REACTIVITY HAZARD | BURN WITH LESS INTENSITY THAN ORDINARY COMBUSTIBLES; DO NOT SUSTAIN COMBUSTION AND POSE NO REACTIVITY HAZARD |