

ترکیبات متصاعد شده در فرایندهای حرارتی (تذریق پلاستیک) روی مواد پلاستیکی / پلیمری

Plastic	Constituents in Fume	Exposure Limits	Side Effects
PVC	Hydrogen chloride	NIOSH REL: C 5 ppm OSHA PEL: C 5 ppm	Irritation to nose, throat, larynx; Cough, choking; Dermatitis; Laryngeal spasm and pulmonary edema found in animals
ABS	Styrene	NIOSH TWA: 50 ppm OSHA TWA: 100 ppm	Irritation to eyes, nose, respiratory system; headache, weakness, exhaustion, dizziness, confusion, drowsiness, unsteady gait; narcosis; defatting dermatitis; possible liver injury; reproductive effects
	Phenol	NIOSH TWA: 5 ppm OSHA TWA: 5 ppm	Irritation to eyes, nose, throat; anorexia, weight loss; weakness, exhaustion, muscle ache, pain; dark urine; cyanosis; liver, kidney damage; skin burns; dermatitis; ochronosis; tremor, convulsions, twitching
	Butadiene	OSHA TWA: 1 ppm	Irritation to eyes, nose, throat; drowsiness, dizziness; teratogenic, reproductive effects; potential occupational carcinogen
Polypropylene	Formaldehyde	NIOSH TWA: 0.016 ppm OSHA TWA: 0.75 ppm	Irritation to eyes, nose, throat, respiratory system; lacrimation (discharge of tears); cough; wheezing; potential occupational carcinogen
	Acrolein	NIOSH TWA: 0.1 ppm OSHA TWA: 0.1 ppm	Irritation to eyes, skin, mucous membrane; decreased pulmonary function; delayed pulmonary edema; chronic resp. disease
	Acetone	NIOSH TWA: 250 ppm OSHA TWA: 1000 ppm	Irritation to eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis
Acetals	Formaldehyde	NIOSH TWA: 0.016 ppm	Same as above
Polyethylene (low density)	Butane	NIOSH TWA: 800 ppm	Drowsiness, narcosis, asphyxia
Polystyrene	Styrene	NIOSH TWA: 50 ppm OSHA TWA: 100 ppm	Same as above