

## INFORMACIÓN Y ADVERTENCIAS

Esta **Guía de selección de filtros para respiradores** (a partir de aquí **guía**) pretende asistir al profesional de SSHH en la selección del filtro adecuado de acuerdo al agente contaminante presente en el ambiente. Simplemente indica, para un determinado agente físico o químico, la clase de filtro aprobado por NIOSH que se espera brinde la protección adecuada cuando se utiliza como parte de un dispositivo de protección respiratoria seleccionado siguiendo los lineamientos de la Normativa de Protección Respiratoria OSHA (Occupational Safety and Health Administration) 29 CFR1910.134. Esta **guía** no indica el dispositivo de protección respiratoria a utilizar ni tampoco la duración (service life) del filtro recomendado para un contaminante. La información contenida en esta **guía** es sólo una sugerencia en función del conocimiento de LIBUS pero es responsabilidad del usuario hacer la selección de dispositivo de protección respiratoria ya que la misma debe estar fundamentada sobre parámetros sólo conocidos por él, que incluyen, entre otros, condiciones específicas del lugar de trabajo, calidad del aire, identificación y concentración de contaminantes, identificación y evaluación de límites de tolerancia (OSHA PEL-Permissible Exposure Limits), NIOSH REL (National Institute for Occupational Safety and Health-Recommended Exposure Limit), otros), factor de protección requerido/asignado (APF), concentración IDLH, propiedades de advertencia, cambios horarios y cualquier otro factor que pueda afectar la salud y la seguridad del trabajador. Si no está seguro de la idoneidad de un respirador particular para una situación específica, no lo use ni permita su uso, no entre o permita que otros entren al área donde se requiere protección respiratoria y consulte a su supervisor o a un profesional de Seguridad e Higiene.

## TÉRMINOS Y CONDICIONES

LIBUS no ofrece ninguna garantía, acuerdo o representación, ya sea expresa, implícita o legal con respecto a esta **guía**. LIBUS renuncia específicamente cualquier garantía de comerciabilidad o idoneidad para un propósito particular. En ningún caso LIBUS será responsable de cualquier acción directa, indirecta, daños especiales, incidentales o consecuentes que surjan del uso o la incapacidad de uso de esta **guía** o de todo reclamo de terceros u otra parte. La información obtenida de esta **guía** debe ser tomada sólo como sugerencia. Por favor consulte la legislación nacional y/o normas locales para obtener información detallada sobre los requisitos de protección respiratoria y la selección de un equipo de protección respiratoria.

El uso de esta **guía** implica que ha leído y aceptado estos términos y condiciones.

## DESCRIPCIÓN DE LA TABLA DE AGENTES

**Substance:** nombre del agente en inglés tal como lo presenta la American Conference of Governmental Industrial Hygienists (ACGIH®).

**CAS No.:** número único de registro CAS (Chemical Abstract Service) establecido por la American Chemical Society (Sociedad Química de EEUU) para armonizar la identificación química.

**Synonyms:** sinónimos del agente (en inglés); en la mayoría de los casos como se presentan en la Pocket Guide to Chemical Hazards del National Institute for Occupational Safety and Health (NIOSH).

**Sustancia:** traducción al castellano del campo “**Substance**”.

**IDLH:** concentración considerada Inmediatamente Peligrosa para la Vida o la Salud (Immediately Dangerous to Life or Health) según la Pocket Guide to Chemical Hazards del National Institute for Occupational Safety and Health (NIOSH). Específicamente se refiere a la exposición respiratoria aguda que presenta una amenaza inmediata de muerte, efectos adversos a la salud, irreversibles, inmediatos o retardados, o exposiciones oculares agudas que impidan el escape de una atmósfera peligrosa.

El propósito de establecer un valor IDLH es (1) asegurar que el trabajador pueda escapar de un ambiente contaminado dado en caso de falla del equipo de protección respiratoria y (2) considerar un nivel máximo por encima del cual solo un aparato de respiración **altamente confiable** brinda protección al trabajador [NIOSH 2004]. Al establecer el valor IDLH, se deben garantizar las siguientes condiciones:

- A. La capacidad de escapar sin pérdida de vidas o efectos de salud irreversibles inmediatos o retrasados (30 minutos se considera el tiempo máximo para escapar a fin de proporcionar cierto margen de seguridad al calcular un valor IDLH).
- B. La prevención de irritación ocular o respiratoria severa u otras reacciones que dificultarían el escape.

El método NIOSH de selección lógica de un respirador utiliza el valor IDLH como uno de varios criterios de selección del mismo. Según esta lógica de decisión, se seleccionarán respiradores "altamente confiables" (es decir, los que brindan la mayor protección) para situaciones de emergencia, extinción de incendios, exposición a carcinógenos, entrada en atmósferas deficientes en oxígeno, entrada en atmósferas que contienen una sustancia con concentración mayor a 2000 veces el NIOSH REL o el OSHA PEL y para entrar en condiciones de peligro inmediato para la vida o la salud (IDLH). Estos respiradores "altamente confiables" incluyen un aparato de respiración autónomo (SCBA-Self Contained Breathing Apparatus) que tiene una pieza facial completa y se opera en una demanda de presión u otro modo de presión positiva o un respirador con suministro de aire (SAR-Supplied Air Respirator) que tiene una pieza facial completa y es operado en un modo de demanda de presión u otro modo de presión positiva en combinación con un SCBA auxiliar operado en un modo de demanda de presión u otro modo de presión positiva.

La tabla omite deliberadamente otros parámetros relacionados con la sustancia ya que el usuario debe consultar la última versión disponible de los mismos en la legislación local, OSHA, NIOSH, ACGIH, otros. Lo mismo aplica al IDLH que, sin embargo, es el único que hemos incluido en esta guía por ser un parámetro crítico tal como hemos explicado en los párrafos precedentes.

Referencias IDLH:

**Ca** sustancias que NIOSH considera posibles cancerígenos ocupacionales.

**ND** IDLH no determinado por NIOSH.

**10%LEL** indica que el IDLH se basó en el 10% del límite inferior de explosividad (LEL-Lower Explosive Limit) por razones de seguridad a pesar de que los datos toxicológicos relevantes indicaron que los efectos irreversibles para la salud o la disminución de las posibilidades de escape existían solo a concentraciones más altas.

**Filter / Filtro:** tipo de filtro sugerido para la sustancia según la clasificación NIOSH.

**AG** Filtro para GASES ÁCIDOS

**AG/P100** Filtro combinado para GASES ÁCIDOS y partículas P100

**AG/P95** Filtro combinado para GASES ÁCIDOS y partículas P95

**AM** Filtro para AMONÍACO/METILAMINA

**AM/P95** Filtro combinado para AMONÍACO/METILAMINA y partículas P95

**FM** Filtro para FORMALDEHÍDO

**HF** Filtro para FLUORURO DE HIDRÓGENO

**HG** Filtro para vapores de MERCURIO

**MG** Filtro MULTIGÁS

**MG/P95** Filtro combinado MULTIGÁS y partículas P95

**N100** Filtro/respirador descartable para partículas N100.

**N95** Filtro/respirador descartable para partículas N95

**OV** Filtro para VAPORES ORGÁNICOS

**OV/AG** Filtro para VAPORES ORGÁNICOS/GASES ÁCIDOS

**OV/P100** Filtro combinado para VAPORES ORGÁNICOS y partículas P100

**OV/P95** Filtro combinado para VAPORES ORGÁNICOS y partículas P95

**P100** Filtro/respirador descartable para partículas P100

**R95** Filtro/respirador descartable para partículas R95

**SA** Respirador con provisión de aire respirable (según el caso particular puede ser SAR o SCBA). Significa que no puede utilizarse un respirador purificador con elemento filtrante.

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Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
<b>A</b>					
Acetaldehyde	75-07-0	Acetic aldehyde, Ethanal, Ethyl aldehyde.	Acetaldehído	Ca 2000 ppm	OV
Acetic acid	64-19-7	Acetic acid (aqueous), Ethanoic acid, Glacial acetic acid, Methanecarboxylic acid [Note: Can be found in concentrations of 5-8% in vinegar.].	Ácido acético	50 ppm	OV
Acetic anhydride	108-24-7	Acetic acid anhydride, Acetic oxide, Acetyl oxide, Ethanoic anhydride.	Anhídrido acético	200 ppm	OV
Acetone	67-64-1	Dimethyl ketone, Ketone propane, 2-Propanone.	Acetona	2500 ppm [10%LEL]	OV
Acetone cyanohydrin	75-86-5	Cyanohydrin-2-propanone, 2-Cyano-2-propanol, $\alpha$ -Hydroxyisobutyronitrile, 2-Hydroxy-2-methyl-propionitrile, 2-Methylactonitrile.	Acetona cianohidrina	ND	OV
Acetonitrile	75-05-8	Cyanomethane, Ethyl nitrile, Methyl cyanide [Note: Forms cyanide in the body.].	Acetonitrilo	137 ppm	OV
Acetophenone	98-86-2	1-Phenylethanone, Acetylbenzene, Benzoyl methide, Hypnone, Methyl phebnyl ketone, Phenyl methyl keytone.	Acetofenona	ND	OV
Acetylene tetrabromide	79-27-6	Symmetrical tetrabromoethane, TBE, Tetrabromoacetylene, 1,1,2,2-Tetrabromoethane, Tetrabromoethane.	Tetrabromuro de acetileno	8 ppm	OV/P95
Acetylsalicylic acid	50-78-2	2-Acetoxybenzoic acid, o-Acetoxybenzoic acid, Aspirin.	Ácido acetilsalicílico	ND	N95
Acrolein	107-02-8	Acraldehyde, Acrylaldehyde, Acrylic aldehyde, Allyl aldehyde, Propenal, 2-Propenal.	Acroleína	2 ppm	OV
Acrylamide	79-06-1	Acrylamide monomer, Acrylic amide, Propenamide, 2-Propenamide.	Acrilamida	Ca [60 mg/m3]	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Acrylic acid	79-10-7	Acroleic acid, Aqueous acrylic acid, Ethylenecarboxylic acid, Glacial acrylic acid, 2-Propenoic acid.	Ácido acrílico	ND	OV
Acrylonitrile	107-13-1	Acrylonitrile monomer, AN, Cyanoethylene, Propenenitrile, 2-Propenenitrile, VCN, Vinyl cyanide.	Acrilonitrilo	Ca [60 ppm]	OV
Adipic acid	124-04-9	1,4-Butanedicarboxylic Acid, Hexanedioic acid.	Ácido adípico	ND	N95
Adiponitrile	111-69-3	1,4-Dicyanobutane, Hexanedinitrile, Tetramethylene cyanide.	Adiponitrilo	ND	OV
Aldrin	309-00-2	1,2,3,4,10,10-Hexachloro-, HHDN, Octalene.	Aldrina	Ca [25 mg/m3]	OV/P100
Allyl alcohol	107-18-6	AA, Allylic alcohol, Propenol, 1-Propen-3-ol, 2-Propenol, Vinyl carbinol.	Alcohol alílico	20 ppm	OV
Allyl bromide	106-95-6	3-Bromopropene, 3-Bromopropylene, 3-Bromo-1-propene, Bromoallylene, 2-Propenyl bromide.	Bromuro de alilo	ND	OV
Allyl chloride	107-05-1	1-Chloro-2-propene, 3-Chloropropene, 3-Chloropropylene.	Cloruro de alilo	250 ppm	OV
Allyl glycidyl ether	106-92-3	AGE, 1-Allyloxy-2,3-epoxypropane, Glycidyl allyl ether, [(2-Propenyloxy)methyl] oxirane.	Éter alil glicidílico	50 ppm	OV
Allyl propyl disulfide	2179-59-1	4,5-Dithia-1-octene, Onion oil, 2-Propenyl propyl disulfide, Propyl allyl disulfide.	Disulfuro alilpropílico	ND	OV
Aluminum metal and insoluble compounds	7429-90-5	Aluminium, Aluminum metal, Aluminum powder, Elemental aluminum.	Aluminio y compuestos insolubles	ND	N95
4-Aminodiphenyl	92-67-1	4-Aminobiphenyl, p-Aminobiphenyl, p-Aminodiphenyl, 4-Phenylaniline.	4-Aminodifenilo	Ca [ND]	P100
2-Aminopyridine	504-29-0	$\alpha$ -Aminopyridine, $\alpha$ -Pyridylamine.	2-Aminopiridina	5 ppm	OV
Amitrole	61-82-5	Aminotriazole, 3-Aminotriazole, 2-Amino-1,3,4-triazole, 3-Amino-1,2,4-triazole.	Amitrol	Ca [ND]	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Ammonia	7664-41-7	Anhydrous ammonia, Aqua ammonia, Aqueous ammonia [Note: Often used in an aqueous solution.].	Amoníaco	300 ppm	AM
Ammonium chloride fume (liquids)	12125-02-9	Ammonium chloride, Ammonium muriate fume, Sal ammoniac fume.	Cloruro de amonio (líquidos)	ND	AM/P95
Ammonium chloride fume (solids)	12125-02-9	Ammonium chloride, Ammonium muriate fume, Sal ammoniac fume.	Cloruro de amonio (sólidos)	ND	N95
Ammonium perfluorooctanoate	3825-26-1	Octanoic acid pentadecalfuoroammonium salt.	Perfluorooctanoato de amonio	Ca [ND]	OV/P95
Ammonium sulfamate	7773-06-0	Ammate herbicide, Ammonium amidosulfonate, AMS [Ammonium sulfamate], Monoammonium salt of sulfamic acid, Sulfamate.	Sulfamato de amonio	1500 mg/m3	N95
n-Amyl acetate	628-63-7	Amyl acetic ester, Amyl acetic ether, 1-Pentanol acetate, Pentyl ester of acetic acid, Primary amyl acetate.	Acetato de n-amilo	1000 ppm	OV
sec-Amyl acetate	626-38-0	1-Methylbutyl acetate, 2-Pentanol acetate, 2-Pentyl ester of acetic acid.	Acetato de sec-amilo	1000 ppm	OV
tert-Amyl methyl ether	994-05-8	2-Methoxy-2-methylbutane, tertiary-Amyl methyl ether, TAME, Methoxypentane.	ter-Amil metil éter	ND	OV
Aniline	62-53-3	Aminobenzene, Aniline oil, Benzenamine, Phenylamine.	Anilina	Ca [100 ppm]	OV
o-Anisidine	90-04-0	ortho-Aminoanisole, 2-Anisidine, o-Methoxyaniline [Note: o-Anisidine has been used as a basis for many dyes.].	o-Anisidina	Ca [50 mg/m3]	OV/P95
p-Anisidine	104-94-9	para-Aminoanisole, 4-Anisidine, p-Methoxyaniline.	p-Anisidina	50 mg/m3	OV/P95
Antimony and compounds	7440-36-0	Antimony metal, Antimony powder, Stibium.	Antimonio y sus compuestos	50 mg/m3 (as Sb)	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Antimony hydride	7803-52-3	Antimony trihydride, Hydrogen antimonide, Stibine.	Trihidruro de antimonio	5 ppm	SA
Antimony Trioxide	1309-64-4	Antimonious oxide Antimony oxide Antimony sesquioxide Antimony white Antimony(3+) oxide Diantimony trioxide Flowers of antimony.	Trióxido de antimonio	ND	P100
ANTU	86-88-4	$\alpha$ -Naphthyl thiocarbamide, 1-Naphthyl thiourea, $\alpha$ -Naphthyl thiourea.	1- (1-Naftil) -2-tiourea	100 mg/m3	OV/P100
Arsenic (inorganic compounds, as As)	7440-38-2 (metal)	Arsenia, Arsenic metal [Note: OSHA considers "Inorganic Arsenic" to mean copper acetoarsenite and all inorganic compounds containing arsenic except ARSINE.].	Arsénico (compuestos inorgánicos, como As)	Ca [5 mg/m3 (as As)]	AG/P100
Arsine	7784-42-1	Arsenic hydride, Arsenic trihydride, Arseniuretted hydrogen, Arsenous hydride, Hydrogen arsenide.	Arsina	Ca [3 ppm]	SA
Asbestos	1332-21-4	Actinolite, Actinolite asbestos, Amosite (cummingtonite-grunerite), Anthophyllite, Anthophyllite asbestos, Chrysotile, Crocidolite (Riebeckite), Tremolite, Tremolite asbestos.	Asbestos	Ca [ND]	P100
Asphalt fumes	8052-42-4	Asphaltum, Bitumen, Petroleum asphalt, Petroleum bitumen, Road asphalt, Roofing asphalt.	Asfalto humos	Ca [ND]	OV/P95
Atrazine	1912-24-9	2-Chloro-4-ethylamino-6-isopropylamino-s-triazine, 6-Chloro-N-ethyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine.	Atrazina	ND	OV/P100
Azinphos-methyl	86-50-0	O,O-Dimethyl-S-4-oxo-1,2,3-benzotriazin-3(4H)-ylmethyl phosphorodithioate, Guthion®, Methyl azinphos.	Azinfos-metilo	10 mg/m3	OV/P100



Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
<b>B</b>					
Barium and soluble compounds, as Ba	7440-39-3	Barium and soluble compounds, as Ba.	Bario y compuestos solubles, como Ba	ND	N95
Barium sulfate	7727-43-7	Artificial barite, Barite, Barium salt of sulfuric acid, Barytes (natural).	Sulfato de Bario	ND	N95
Benomyl	17804-35-2	Methyl 1-(butylcarbamoyl)-2-benzimidazolecarbamate.	Benomilo	ND	OV/P100
Benzene	71-43-2	Benzol, Phenyl hydride.	Benceno	Ca [500 ppm]	OV
Benzidine	92-87-5	Benzidine-based dyes, 4,4'-Bianiline, 1,1'-Biphenyl-4,4'-diamine, 4,4'-Biphenyldiamine, 4,4'-Diaminobiphenyl, p-Diaminodiphenyl [Note: Benzidine has been used as a basis for many dyes.].	Bencidina	Ca [ND]	P100
Benzotrichloride	98-07-7	(Trichloromethyl)benzene, Toluene trichloride, Phenyl chloroform alpha.	Benzotricloruro	ND	OV
Benzoyl chloride	98-88-4	Benzenecarbonyl chloride.	Cloruro de benzoilo	ND	OV/AG
Benzoyl peroxide	94-36-0	Benzoperoxide, Dibenzoyl peroxide.	Peróxido de benzoilo	1500 mg/m <sup>3</sup>	OV/P95
Benzyl acetate	140-11-4	Benzyl ester of acetic acid, phenylmethyl acetate, Phenylmethyl ester of acetic acid.	Acetato de bencilo	ND	OV/P95
Benzyl chloride	100-44-7	Chloromethylbenzene, $\alpha$ -Chlorotoluene.	Cloruro de benzilo	10 ppm	OV/AG
Beryllium & beryllium compounds (as Be)	7440-41-7 (metal)	Beryllium metal.	Compuestos de berilio y berilio (como Be)	Ca [4 mg/m <sup>3</sup> (as Be)]	N95
Biphenyl	92-52-4	Diphenyl, Phenyl benzene.	Bifenilo	100 mg/m <sup>3</sup>	OV/P95
Bismuth telluride, undoped	1304-82-1	Bismuth sesquitelluride, Bismuth telluride, Bismuth tritelluride, Tellurobismuthite.	Teluluro de bismuto (sin purificar)	ND	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Bismuth telluride, doped with Selenium sulfide (as Bi <sub>2</sub> Te <sub>3</sub> )	1304-82-1	Doped bismuth sesquitelluride, Doped bismuth telluride, Doped bismuth tritelluride, Doped tellurobismuthite [Note: Doped with selenium sulfide. Commercial mix may contain 80% Bi <sub>2</sub> Te <sub>3</sub> , 20% stannous telluride, plus some tellurium.].	Teluluro de bismuto (Se-Doped)	ND	N95
Borates, tetra, sodium salts (Decahydrate)	1303-96-4	Borax, Borax decahydrate, Sodium borate decahydrate, Sodium tetraborate decahydrate.	Borato de sodio decahidratado	ND	N95
Borates, tetra, sodium salts (Anhydrous)	1330-43-4	Anhydrous borax, Borax dehydrated, Disodium salt of boric acid, Disodium tetraborate, Fused borax, Sodium borate (anhydrous), Sodium tetraborate.	Borato de sodio anhídrido	ND	N95
Boron oxide	1303-86-2	Boric anhydride, Boric oxide, Boron trioxide.	Óxido de boro	2000 mg/m <sup>3</sup>	N95
Boron tribromide	10294-33-4	Boron bromide, Tribromoborane.	Tribromuro de boro	ND	AG
Boron trichloride	10294-34-5	Boron(III) chloride, Trichloroborane.	Tricloruro de boro	ND	AG
Boron trifluoride	7637-07-2	Boron fluoride, Trifluoroborane.	Trifluoruro de boro	25 ppm	AG
Bromacil	314-40-9	5-Bromo-3-sec-butyl-6-methyluracil, 5-Bromo-6-methyl-3-(1-methylpropyl)uracil.	Bromacil	ND	OV/P100
Bromine	7726-95-6	Molecular bromine.	Bromo	3 ppm	OV/AG
Bromine pentafluoride	7789-30-2	Bromine fluoride.	Pentafluoruro de bromo	1.7 ppm	AG
Bromoform	75-25-2	Methyl tribromide, Tribromomethane.	Bromoformo	850 ppm	OV
1-Bromopropane	106-94-5	Bromopropane, 1-propyl bromide, n-propyl bromide.	1-Bromopropano	ND	OV
1,3-Butadiene	106-99-0	Biethylene, Bivinyll, Butadiene, Divinyll, Erythrene, Vinylethylene.	1,3-Butadieno	Ca [2000 ppm] [10%LEL]	OV
n-Butane	106-97-8	normal-Butane, Butyl hydride, Diethyl, Methylethylmethane [Note: Also see specific listing for Isobutane.].	n-Butano	1,600 ppm [10% LEL]	SA

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
n-Butyl alcohol	71-36-3	1-Butanol, n-Butanol, Butyl alcohol, 1-Hydroxybutane, n-Propyl carbinol.	n-Butanol	1400 ppm [10%LEL]	OV
sec-Butyl alcohol	78-92-2	2-Butanol, Butylene hydrate, 2-Hydroxybutane, Methyl ethyl carbinol.	Alcohol sec-butílico	2000 ppm	OV
tert-Butyl alcohol	75-65-0	2-Methyl-2-propanol, Trimethyl carbinol.	Alcohol ter-butílico	1600 ppm	OV
2-BUTENE	107-01-7	2-Buten, butene-2, but-2-ene, butylene-2, 2-BUTYLENE, beta-Butene.	2-Buteno	ND	OV
CIS-2-BUTENE	590-18-1	beta-cis-butylene, cis-1,2-Dimethylethylene, cis-Butene, cis-Butylene, high-boilingbutene-2, CIS-PSEUDOBUTYLENE, CIS-SYM-DIMETHYLETHYLENE, CIS-B-BUTYLENE.	cis-2-Buteno	ND	OV
trans-2-Butene	624-64-6	(E)-2-Butene, 2-trans-Butene, 2-trans-Butylene, trans-1,2-Dimethylethylene, trans-2-Butylene, trans-Butene; trans-Butene-2, beta-trans-Butylene.	trans-2-Buteno	ND	OV
1-BUTENE	106-98-9	N-BUTENE, Butene-1, n-Buten-1, But-1-ene, 1-BUTYLENE, 1-N-BUTENE, alpha-Butene.	1-Buteno	ND	OV
2-Butoxyethanol	111-76-2	Butyl Cellosolve®, Butyl oxitol, Dowanol® EB, EGBE, Ektasolve EB®, Ethylene glycol monobutyl ether, Jeffersol EB.	2-Butoxietanol	700 ppm	OV
2-Butoxyethanol acetate	112-07-2	2-Butoxyethyl acetate, Butyl Cellosolve® acetate, Butyl glycol acetate, EGBEA, Ektasolve EB® acetate, Ethylene glycol monobutyl ether acetate.	Acetato de 2-butoxietanol	ND	OV
n-Butyl acetate	123-86-4	Butyl acetate, n-Butyl ester of acetic acid, Butyl ethanoate.	Acetato de n-butilo	1700 ppm [10%LEL]	OV
sec-Butyl acetate	105-46-4	sec-Butyl ester of acetic acid, 1-Methylpropyl acetate.	Acetato de sec-butilo	1700 ppm [10%LEL]	OV
tert-Butyl acetate	540-88-5	tert-Butyl ester of acetic acid.	Acetato de ter-butilo	1500 ppm [10%LEL]	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Butyl acrylate	141-32-2	n-Butyl acrylate, Butyl ester of acrylic acid, Butyl-2-propenoate.	Acrilato de butilo	113 ppm	OV
n-Butylamine	109-73-9	1-Aminobutane, Butylamine.	n-Butilamina	300 ppm	AM
2,6-Di-tert-butyl-p-cresol	128-37-0	BHT, Butylated hydroxytoluene, Dibutylated hydroxytoluene, 4-Methyl-2,6-di-tert-butyl phenol.	Hidroxitolueno butilado	ND	OV/P95
tert-Butyl chromate	1189-85-1	di-tert-Butyl ester of chromic acid.	Cromato de ter-butilo	Ca [15 mg/m <sup>3</sup> {as Cr(VI)}]	N95
n-Butyl glycidyl ether	2426-08-6	BGE, 1,2-Epoxy-3-butoxypropane	n-Butil glicidil éter	250 ppm	OV
tert-Butyl hydroperoxide	75-91-2	Butylhydroperoxid, T-BUTYL HYDROPEROXIDE, tert-Butanol peroxide, TERT-BUTYL HYDROPEROXIDE, tert-Butyl hydroperoxide (content ≤ 80%, with di-tert-butyl hydroperoxide and/or type A thinner), tert-Butyl hydrogen peroxide, T-HYDRO(R), 1,1-Dimethylethyl hydroperoxide, 2-Hydroperoxy-2-methylpropane, Ethyldiethylperoxide.	Hidroperóxido de terc-butilo	ND	OV
n-Butyl lactate	138-22-7	Butyl ester of 2-hydroxypropanoic acid, Butyl ester of lactic acid, Butyl lactate.	n-Butil lactato	ND	OV
n-Butyl mercaptan	109-79-5	Butanethiol, 1-Butanethiol, n-Butanethiol, 1-Mercaptobutane.	Butil mercaptano	500 ppm	OV
o-sec-Butylphenol	89-72-5	2-sec-Butylphenol, 2-(1-Methylpropyl)phenol.	o-sec-Butilfenol	ND	OV/P95
p-tert-Butyltoluene	98-51-1	4-tert-Butyltoluene, 1-Methyl-4-tert-butylbenzene.	p-ter-Butiltolueno	100 ppm	OV
<b>C</b>					
Cadmium (as Cd)	7440-43-9 (metal)	Cadmium metal.	Cadmio (como Cd)	Ca [9 mg/m <sup>3</sup> (as Cd)]	N100

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Calcium cyanamide	156-62-7	Calcium carbimide, Cyanamide [Calcium cyanamide], Lime nitrogen, Nitrogen lime [Note: Cyanamide is also a synonym for Hydrogen cyanamide, NH <sub>2</sub> CN.].	Cianamida de calcio	ND	N95
Calcium fluoride (as F)	7789-75-5	Calcium difluoride, CALCIUM (II) FLUORIDE, FLUORITE, FLUORSPAR, FLUORSPARMEAL, Acid-spar, Liparite.	Fluoruro de calcio (como F)	ND	N95
Calcium hydroxide	1305-62-0	Calcium hydrate, Caustic lime, Hydrated lime, Slaked lime.	Hidróxido de calcio	ND	N95
Calcium oxide	1305-78-8	Burned lime, Burnt lime, Lime, Pebble lime, Quick lime, Unslaked lime.	Óxido de calcio	25 mg/m <sup>3</sup>	N95
Calcium silicate	1344-95-2	Calcium hydrosilicate, Calcium metasilicate, Calcium monosilicate, Calcium salt of silicic acid.	Silicato de calcio	ND	N95
Calcium sulfate	7778-18-9	Anhydrous calcium sulfate, Anhydrous gypsum, Anhydrous sulfate of lime, Calcium salt of sulfuric acid [Note: Gypsum is the dihydrate form and Plaster of Paris is the hemihydrate form.].	Sulfato de calcio	ND	N95
Camphor (synthetic)	76-22-2	2-Camphonone, Gum camphor, Laurel camphor, Synthetic camphor.	Alcanfor	200 mg/m <sup>3</sup>	OV/P95
Caprolactam	105-60-2	Aminocaproic lactam, epsilon-Caprolactam, Hexahydro-2H-azepin-2-one, 2-Oxohexamethyleneimine.	Caprolactama	ND	OV/P95
Captafol	2425-06-1	Captofol, Difolatan®, N-((1,1,2,2-Tetrachloroethyl)thio)-4-cyclohexene-1,2-dicarboximide	Captafol	Ca [ND]	OV/P100
Captan	133-06-2	Captane, N-Trichloromethylmercapto-4-cyclohexene-1,2-dicarboximide.	Captan	Ca [ND]	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Carbaryl	63-25-2	1-Naphthyl N-Methyl-carbamate, $\alpha$ -Naphthyl N-methyl-carbamate, Sevin®.	Carbaryl	100 mg/m <sup>3</sup>	OV/P100
Carbofuran	1563-66-2	2,3-Dihydro-2,2-dimethyl-7-benzofuranyl methylcarbamate, Furacarb®, Furadan®.	Carbofurano	ND	OV/P100
Carbon black	1333-86-4	Acetylene black, Channel black, Furnace black, Lamp black, Thermal black.	Negro de carbón	1750 mg/m <sup>3</sup>	N95
Carbon dioxide	124-38-9	Carbonic acid gas, Dry ice [Note: Normal constituent of air (about 300 ppm)].	Dióxido de carbono	40,000 ppm	SA
Carbon disulfide	75-15-0	Carbon bisulfide.	Disulfuro de carbono	500 ppm	OV
Carbon monoxide	630-08-0	Carbon oxide, Flue gas, Monoxide.	Monóxido de carbono	1200 ppm	SA
Carbon tetrabromide	558-13-4	Carbon bromide, Methane tetrabromide, Tetrabromomethane.	Tetrabromuro de carbono	ND	OV
Carbon tetrachloride	56-23-5	Carbon chloride, Carbon tet, Freon® 10, Halon® 104, Tetrachloromethane.	Tetracloruro de carbono	Ca [200 ppm]	OV
Carbonyl fluoride	353-50-4	Carbon difluoride oxide, Carbon fluoride oxide, Carbon oxyfluoride, Carbonyl difluoride, Fluoroformyl fluoride, Fluorophosgene.	Fluoruro de carbonilo	ND	SA
Carbonyl sulfide	463-58-1	COS, thioformin, Oxothioxocarbon, Oxomethanethione, oxycarbonylsulfide, Thioxo-methanone.	Sulfuro de carbonilo	ND	SA
Catechol	120-80-9	1,2-Benzenediol, o-Benzenediol, 1,2-Dihydroxybenzene, o-Dihydroxybenzene, 2-Hydroxyphenol, Pyrocatechol.	Catecol	ND	OV/P95
Cellulose	9004-34-6	Hydroxycellulose, Pyrocellulose.	Celulosa	ND	N95
Cesium fluoride (as F)	13400-13-0	Cesium monofluoride, Dicesium difluoride, Tricesium trifluoride.	Fluoruro de cesio (como F)	ND	N95
Cesium hydroxide	21351-79-1	Cesium hydrate, Cesium hydroxide dimer.	Hidróxido de cesio	ND	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Chlordane	57-74-9	Chlordan, Chlordano, 1,2,4,5,6,7,8,8-Octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane.	Clordano	Ca [100 mg/m <sup>3</sup> ]	P100
Chlorinated camphene	8001-35-2	Chlorocamphene, Octachlorocamphene, Polychlorocamphene, Toxaphene.	Canfeno clorado	Ca [200 mg/m <sup>3</sup> ]	P100
Chlorinated diphenyl oxide	31242-93-0	Hexachlorodiphenyl oxide.	Óxido de difenilo clorinado	5 mg/m <sup>3</sup>	OV/P95
Chlorine	7782-50-5	Molecular chlorine.	Cloro	10 ppm	AG
Chlorine dioxide	10049-04-4	Chlorine oxide, Chlorine peroxide.	Dióxido de cloro	5 ppm	AG
Chlorine trifluoride	7790-91-2	Chlorine fluoride, Chlorotrifluoride.	Trifluoruro de cloro	20 ppm	MG
Chloroacetaldehyde	107-20-0	Chloroacetaldehyde (40% aqueous solution), 2-Chloroacetaldehyde, 2-Chloroethanal.	Cloroacetaldehído	45 ppm	OV
Chloroacetone	78-95-5	1-Chloroacetone, Acetonyl chloride, alpha-Chloroacetone, Chloro-2-propanone, Chloromethyl methyl ketone, Chloropropanone, Methy chloromethyl ketone, Monochloroacetone.	Cloroacetona	ND	OV
alpha-Chloroacetophenone	532-27-4	2-Chloroacetophenone, Chloromethyl phenyl ketone, Mace®, Phenacyl chloride, Phenyl chloromethyl ketone, Tear gas.	alfa-Cloroacetofenona	15 mg/m <sup>3</sup>	OV/P95
Chloroacetyl chloride	79-04-9	Chloroacetic acid chloride, Chloroacetic chloride, Monochloroacetyl chloride	Cloruro de cloracetilo	1.3 ppm	OV/AG
Chlorobenzene	108-90-7	Benzene chloride, Chlorobenzol, MCB, Monochlorobenzene, Phenyl chloride.	Clorobenceno	1000 ppm	OV
o-Chlorobenzylidene malononitrile	2698-41-1	2-Chlorobenzal malonitrile, CS, OCBM.	o-Clorobencilideno malonitrilo	2 mg/m <sup>3</sup>	OV/P100
Chlorobromomethane	74-97-5	Bromochloromethane, CB, CBM, Fluorocarbon 1011, Halon® 1011, Methyl chlorobromide.	Clorobromometano	2000 ppm	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Chlorodifluoromethane	75-45-6	Difluorochloromethane, Fluorocarbon-22, Freon® 22, Genetron® 22, Monochlorodifluoromethane, Refrigerant 22.	Clorodifluorometano	ND	SA
Chlorodiphenyl (42% chlorine)	53469-21-9	Aroclor® 1242, PCB [Chlorodiphenyl (42% chlorine)], Polychlorinated biphenyl [Chlorodiphenyl (42% chlorine)].	Clorodifenilo (42% de cloro)	Ca [5 mg/m3]	OV/P95
Chlorodiphenyl (54% chlorine)	11097-69-1	Aroclor® 1254, PCB [Chlorodiphenyl (54% chlorine)], Polychlorinated biphenyl [Chlorodiphenyl (54% chlorine)].	Clorodifenilo (54% de cloro)	Ca [5 mg/m3]	OV/P95
Chloroform	67-66-3	Methane trichloride, Trichloromethane.	Cloroformo	Ca [500 ppm]	OV
bis-Chloromethyl ether	542-88-1	BCME, Chloromethyl ether, bis-CME, Dichlorodimethyl ether, Dichloromethyl ether, Oxybis(chloromethane).	bis-Clorometil éter	Ca [ND]	OV
Chloromethyl methyl ether	107-30-2	Chlorodimethyl ether, Chloromethoxymethane, CMME, Dimethylchloroether, Methylchloromethyl ether.	Clorometil metil éter	Ca [ND]	OV
1-Chloro-1-nitropropane	600-25-9	Korax®, Lanstan®.	1-Cloro-1-nitropropano	100 ppm	OV
Chloropentafluoroethane	76-15-3	Fluorocarbon-115, Freon® 115, Genetron® 115, Halocarbon 115, Monochloropentafluoroethane.	Cloropentafluoroetano	ND	SA
Chloropicrin	76-06-2	Nitrochloroform, Nitrotrichloromethane, Trichloronitromethane.	Cloropicrina	2 ppm	SA
beta-Chloroprene	126-99-8	Chlorobutadiene, 2-Chloro-1,3-butadiene, Chloroprene.	b-Cloropreno	Ca [300 ppm]	OV
1-Chloro-2-propanol	127-00-4	a-Propylene chlorohydrin, Chloropropanol, Propylene chlorohydrin.	1-Cloro-2-propanol	ND	OV



Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
2-Chloro-1-propanol	78-89-7	2-Chloropropanol, 2-chloro-1-propano, MONOCHLOROPROPANOL, 2-chloropropan-1-ol, PROPYLENECHLORHYDRIN, 2-chloropropylalcohol.	2-Cloro-1-propanol	ND	OV
2-Chloropropionic acid	598-78-7	alpha-Chloropropionic acid.	Ácido 2-cloropropiónico	ND	OV/AG
o-Chlorostyrene	2039-87-4	1-Chloro-2-ethenylbenzene, 2-Chlorostyrene, ortho-Chlorostyrene.	o-Cloroestireno	ND	OV
o-Chlorotoluene	95-49-8	1-Chloro-2-methylbenzene, 2-Chloro-1-methylbenzene, 2-Chlorotoluene, o-Tolyl chloride.	o-Clorotolueno	ND	OV
Chlorpyrifos	2921-88-2	Chlorpyrifos-ethyl, O,O-Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate, Dursban®.	Clorpirifos	ND	OV/P100
Chromium, inorganic compounds, metallic chromium metal as Cr(0), water-soluble compounds, Chromium (II) and Chromium (III) compounds	7440-47-3	Chrome, Chromium.	Cromo	250 mg/m3 (as Cr)	N95
Chromyl chloride	14977-61-8	Chlorochromic anhydride, Chromic oxychloride, Chromium chloride oxide, Chromium dichloride dioxide, Chromium dioxide dichloride, Chromium dioxychloride, Chromium oxychloride, Dichlorodioxochromium.	Cloruro de cromilo	Ca [ND]	AG
Citral	5392-40-5	3,7-Dimethyl-2,6-octadienal; Geranial and neral mixture.	Citral	ND	OV/P95
Clopidol	2971-90-6	Coyden®, 3,5-Dichloro-2,6-dimethyl-4-pyridinol.	Clopidol	ND	N95
Coal dust		Anthracite coal dust, Bituminous coal dust, Coal mine dust, Lignite coal dust.	Polvo de carbón	ND	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Coal tar pitch volatiles, as benzene soluble aerosol	65996-93-2	Acridine, Anthracene, Benzo(a)pyrene, Chrysene, Coal tar, Phenanthrene, pyrene [Note: NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products.].	Volátiles de alquitrán de hulla, como aerosol soluble de benceno	Ca [80 mg/m <sup>3</sup> ]	OV/P95
Cobalt metal dust and fume (as Co)	7440-48-4	Cobalt metal dust, Cobalt metal fume.	Polvo de metal y humo de cobalto (como Co)	20 mg/m <sup>3</sup> (as Co)	N95
Cobalt carbonyl (as Co)	10210-68-1	di-mu-Carbonylhexacarbonyldicobalt, Cobalt octacarbonyl, Cobalt tetracarbonyl dimer, Dicobalt carbonyl, Dicobalt Octacarbonyl, Octacarbonyldicobalt.	Carbonilo de cobalto	ND	SA
Cobalt hydrocarbonyl (as Co)	16842-03-8	Hydrocobalt tetracarbonyl, Tetracarbonylhydricobalt, Tetracarbonylhydrocobalt.	Hidrocarbonilo de cobalto (como Co)	ND	SA
Copper (dusts and mists, as Cu)	7440-50-8	Copper metal dusts, Copper metal fumes.	Cobre (polvo y neblina, como Cu)	100 mg/m <sup>3</sup> (as Cu)	N95
Cotton dust (raw)		Raw cotton dust.	Polvo de algodón (crudo)	100 mg/m <sup>3</sup>	N95
m-Cresol	108-39-4	3-Cresol, meta-Cresol, m-Cresylic acid, 1-Hydroxy-3-methylbenzene, 3-Hydroxytoluene, 3-Methyl phenol.	m-Cresol	250 ppm	OV/P95
o-Cresol	95-48-7	2-Cresol, ortho-Cresol, o-Cresylic acid, 1-Hydroxy-2-methylbenzene, 2-Hydroxytoluene, 2-Methyl phenol.	o-Cresol	250 ppm	OV/P95
p-Cresol	106-44-5	4-Cresol, para-Cresol, p-Cresylic acid, 1-Hydroxy-4-methylbenzene, 4-Hydroxytoluene, 4-Methyl phenol.	p-Cresol	250 ppm	OV/P95
Crotonaldehyde	4170-30-3	2-Butenal, β-Methyl acrolein, Propylene aldehyde.	Crotonaldehído	50 ppm	OV
Crufomate	299-86-5	4-t-Butyl-2-chlorophenylmethyl methylphosphoramidate, Dowco® 132, Ruelene®.	Crufomato	ND	OV/P100

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Cumene	98-82-8	Cumol, Isopropyl benzene, 2-Phenyl propane.	Cumeno	900 ppm [10%LEL]	OV
Cyanamide	420-04-2	Amidocyanogen, Carbimide, Carbodiimide, Cyanogen nitride, Hydrogen cyanamide [Note: Cyanamide is also a synonym for Calcium cyanamide.].	Cianamida	ND	N95
Cyanogen	460-19-5	Carbon nitride, Dicyan, Dicyanogen, Ethanedinitrile, Oxalonitrile.	Cianógeno	ND	MG
Cyanogen bromide	506-68-3	BROMINE CYANIDE, BROMOCYANE, BROMOCYANIDE.	Cianuro de bromo	ND	SA
Cyanogen chloride	506-77-4	Chlorcyan, Chlorine cyanide, Chlorocyanide, Chlorocyanogen.	Cloruro de cianógeno	ND	SA
Cyclohexane	110-82-7	Benzene hexahydride, Hexahydrobenzene, Hexamethylene, Hexanaphthene.	Ciclohexano	1300 ppm [10%LEL]	OV
Cyclohexanol	108-93-0	Anol, Cyclohexyl alcohol, Hexahydrophenol, Hexalin, Hydralin, Hydroxycyclohexane.	Ciclohexanol	400 ppm	OV
Cyclohexanone	108-94-1	Anone, Cyclohexyl ketone, Pimelic ketone.	Ciclohexanona	700 ppm	OV
Cyclohexene	110-83-8	Benzene tetrahydride, Tetrahydrobenzene.	Ciclohexeno	2000 ppm	OV
Cyclohexylamine	108-91-8	Aminocyclohexane, Aminohehexahydrobenzene, Hexahydroaniline, Hexahydrobenzenamine.	Ciclohexilamina	ND	OV
Cyclonite	121-82-4	Cyclotrimethylenetrinitramine, Hexahydro-1,3,5-trinitro-s-triazine, RDX, Trimethylenetrinitramine, 1,3,5-Trinitro-1,3,5-triazacyclohexane.	Ciclonita	ND	N95
Cyclopentadiene	542-92-7	1,3-Cyclopentadiene.	Ciclopentadieno	750 ppm	OV
Cyclopentane	287-92-3	Pentamethylene.	Ciclopentano	ND	SA
Cyhexatin	13121-70-5	TCHH, Tricyclohexylhydroxystannane, Tricyclohexylhydroxytin, Tricyclohexylstannium hydroxide, Tricyclohexyltin hydroxide.	Cihexatina	80 mg/m <sup>3</sup> [25 mg/m <sup>3</sup> (as Sn)]	OV/P100

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
<b>D</b>					
2,4-D	94-75-7	Dichlorophenoxyacetic acid, 2,4-Dichlorophenoxyacetic acid.	Ácido diclorofenoxiacético	100 mg/m <sup>3</sup>	OV/P100
DDT	50-29-3	p,p'-DDT, Dichlorodiphenyltrichloroethane, 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane.	Dicloro difenil tricloroetano	Ca [500 mg/m <sup>3</sup> ]	OV/P100
Decaborane	17702-41-9	Decaboron tetradecahydride.	Decaborano	15 mg/m <sup>3</sup>	SA
Demeton	8065-48-3	O-O-Diethyl-O(and S)-2-(ethylthio)ethyl phosphorothioate mixture, Systox®.	Demeton	10 mg/m <sup>3</sup>	OV/P100
Methyl demeton	8022-00-2	Demeton methyl, O,O-Dimethyl 2-ethylmercaptoethyl thiophosphate, Metasystox®, Methyl mercaptophos, Methyl systox®.	Metil demeton	ND	OV/P100
Diacetone alcohol	123-42-2	Diacetone, 4-Hydroxy-4-methyl-2-pentanone, 2-Methyl-2-pentanol-4-one.	Alcohol de diacetona	1800 ppm [10%LEL]	OV
Diacetyl	431-03-8	2,3-Butanedione; 2,3-Diketobutane; Dimethylglyoxal; 2,3-Butanedione; 2,3-DIKETOBUTANE.	Diacetilo	ND	OV/P95
Diazinon®	333-41-5	Basudin®, Diazide®, O,O-Diethyl-O-2-isopropyl-4-methyl-6-pyrimidinyl-phosphorothioate, Spectracide®.	Diazinón®	ND	N95
Diazomethane	334-88-3	Azimethylene, Azomethylene, Diazirine.	Diazometano	2 ppm	SA
Diborane	19287-45-7	Boroethane, Boron hydride, Diboron hexahydride.	Diborano	15 ppm	SA
2-N-Dibutylaminoethanol	102-81-8	Dibutylaminoethanol, 2-Dibutylaminoethanol, 2-Di-N-butylaminoethanol, 2-Di-N-butylaminoethyl alcohol, N,N-Dibutylethanolamine.	2-N-Dibutilaminoetanol	ND	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Dibutyl Phenyl phosphate	2528-36-1	Butyl phenyl phosphate, Phosphoric acid, dibutyl phenyl ester, Di(n-butyl) phenyl phosphate.	Dibutil fenil fosfato	ND	OV/P95
Dibutyl phosphate	107-66-4	Dibutyl acid o-phosphate, Di-n-butyl hydrogen phosphate, Dibutyl phosphoric acid.	Dibutil fosfato	30 ppm	OV/P95
Dibutyl phthalate	84-74-2	DBP, Dibutyl-1,2-benzene-dicarboxylate, Di-n-butyl phthalate.	Dibutil ftalato	4000 mg/m3	OV/P95
Dichloroacetic acid	79-43-6	2,2-Dichloroacetic acid, Urner's liquid, dca (acid), dichloro.	Ácido dicloroacético	ND	OV/AG
Dichloroacetylene	7572-29-4	Dichloroethyne.	Dicloroacetileno	Ca [ND]	SA
o-Dichlorobenzene	95-50-1	1,2-Dichlorobenzene.	o-Diclorobenceno	200 ppm	OV
p-Dichlorobenzene	106-46-7	p-DCB, 1,4-Dichlorobenzene, para-Dichlorobenzene, Dichlorocide.	p-Diclorobenceno	Ca [150 ppm]	OV/P95
3,3'-Dichlorobenzidine (and its salts)	91-94-1	4,4'-Diamino-3,3'-dichlorobiphenyl, Dichlorobenzidine base, o,o'-Dichlorobenzidine, 3,3'-Dichlorobiphenyl-4,4'-diamine, 3,3'-Dichloro-4,4'-biphenyldiamine, 3,3'-Dichloro-4,4'-diaminobiphenyl.	3,3'-Diclorobencidina (y sus sales)	ND	P100
1,4-Dichloro-2-butene	764-41-0	DCB.	1,4-Dicloro-2-buteno	ND	OV
Dichlorodifluoromethane	75-71-8	Difluorodichloromethane, Fluorocarbon 12, Freon® 12, Genetron® 12, Halon® 122, Propellant 12, Refrigerant 12.	Diclorodifluorometano	15.000 ppm	SA
1,3-Dichloro-5,5-dimethylhydantoin	118-52-5	Dactin, DDH, Halane.	1,3-Dicloro-5,5-dimetilhidantoína	5 mg/m3	OV/P95
1,1-Dichloroethane	75-34-3	Asymmetrical dichloroethane, Ethylidene chloride, 1,1-Ethylidene dichloride.	1,1-Dicloroetano	3000 ppm	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
1,2-Dichloroethylene, all isomers	540-59-0; 156-59-2; 156-60-5	Acetylene dichloride, cis-Acetylene dichloride, trans-Acetylene dichloride, sym-Dichloroethylene.	1,2-Dicloroetileno, todos los isómeros	1000 ppm	OV
Dichloroethyl ether	111-44-4	bis(2-Chloroethyl)ether, 2,2'-Dichlorodiethyl ether, 2,2'-Dichloroethyl ether.	Dicloroetil éter	Ca [100 ppm]	OV
Dichloromonofluoromethane	75-43-4	Dichlorofluoromethane, Fluorodichloromethane, Freon® 21, Genetron® 21, Halon® 112, Refrigerant 21.	Dicloromonofluorometano	5000 ppm	SA
Dichloromethane	75-09-2	Methylene dichloride, Methylene chloride.	Cloruro de metileno	Ca [2300 ppm]	SA
1,1-Dichloro-1-nitroethane	594-72-9	Dichloronitroethane.	1,1-Dicloro-1-nitroetano	25 ppm	OV
1,3-Dichloropropene	542-75-6	3-Chloroallyl chloride, DCP, 1,3-Dichloro-1-propene, 1,3-Dichloropropylene, Telone®.	1,3-Dicloropropeno	ND	OV
2,2-Dichloropropionic acid	75-99-0	Dalapon, 2,2-Dichloropropanoic acid, $\alpha,\alpha$ -Dichloropropionic acid.	Ácido 2,2-dicloropropiónico	ND	OV/P95
Dichlorotetrafluoroethane	76-14-2	1,2-Dichlorotetrafluoroethane, Freon® 114, Genetron® 114, Halon® 242, Refrigerant 114.	Diclorotetrafluoroetano	15.000 ppm	SA
Dichlorvos	62-73-7	DDVP, 2,2-Dichlorovinyl dimethyl phosphate.	Diclorvos	100 mg/m <sup>3</sup>	OV
Dicyclopentadiene	77-73-6	Bicyclopentadiene, DCPD, 1,3-Dicyclopentadiene dimer, 3a,4,7,7a-Tetrahydro-4,7-methanoindene [Note: Exists in two stereoisomeric forms.].	Diciclopentadieno	ND	OV/P95
Dicyclopentadienyl iron	102-54-5	bis(Cyclopentadienyl)iron, Ferrocene, Iron dicyclopentadienyl.	Diciclopentadienil de hierro	ND	N95
Diesel fuel	68334-30-5; 68476-30-2; 68476-31-3; 68476-34-6		Diésel, Gasoil	ND	OV
Diethanolamine	111-42-2	DEA, 2,2'-Dihydroxydiethylamine, Di (2-hydroxyethyl) amine, Diolamine, bis (2-Hydroxyethyl) amine, 2,2'-Iminodiethanol.	Dietanolamina	ND	OV/P95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Diethylamine	109-89-7	Diethamine, N,N-Diethylamine, N-Ethylethanamine.	Dietilamina	200 ppm	OV
2-Diethylaminoethanol	100-37-8	Diethylaminoethanol, 2-Diethylaminoethyl alcohol, N,N-Diethylethanolamine, Diethyl-(2-hydroxyethyl)amine, 2-Hydroxytriethylamine.	2-Dietilaminoetanol	100 ppm	OV
Diethylene glycol	111-46-6	DEG; Bis(2-hydroxyethyl) Ether; 2,2'-Oxydiethanol; Diglycol.	Dietilenglicol	ND	R95
Diethylene glycol monoethyl ether	111-90-0	2-(2-Ethoxyethoxy)ethanol, Carbitol, Carbitol cellosolve, Carbitol solvent, Ethoxy diglycol, Ethyl carbitol, Ethyl diethylene glycol, Monoethyl ether of diethylene glycol.	Dietilenglicol monoetil éter	ND	OV
Diethylenetriamine	111-40-0	bis(2-Aminoethyl)amine, N-(2-Aminoethyl)-1,2-ethanediamine, DETA, 2,2'-Diaminodiethylamine.	Dietilentriamina	ND	OV
Di-sec octyl phthalate	117-81-7	DEHP, Di(2-ethylhexyl)phthalate, DOP, bis-(2-Ethylhexyl) phthalate, Octyl phthalate.	Di-ftalato de octilo	Ca [5000 mg/m3]	R95
N,N-Diethylhydroxylamine	3710-84-7	DEHA, DIETHYL HYDROXYLAMINE.	N, N-Dietil-hidroxilamina	ND	OV
Diethyl ketone	96-22-0	DEK, Dimethylacetone, Ethyl ketone, Metacetone, 3-Pentanone, Propione	Dietilcetona	ND	OV
Diethyl phthalate	84-66-2	DEP, Diethyl ester of phthalic acid, Ethyl phthalate.	Ftalato de dietilo	ND	R95
Difluorodibromomethane	75-61-6	Dibromodifluoromethane, Freon® 12B2, Halon® 1202.	Difluorodibromometano	2000 ppm	OV
Diglycidyl ether	2238-07-5	DGE, Diallyl ether dioxide, Di(2,3-epoxypropyl) ether, 2-Epoxypropyl ether, bis(2,3-Epoxypropyl) ether.	Diglicidil éter	Ca [10 ppm]	OV
Diisobutyl ketone	108-83-8	DIBK, sym-Diisopropyl acetone, 2,6-Dimethyl-4-heptanone, Isovalerone, Valerone.	Diisobutilcetona	500 ppm	OV
Diisopropylamine	108-18-9	DIPA, N-(1-Methylethyl)-2-propanamine.	Diisopropilamina	200 ppm	OV
Dimethyl acetamide	127-19-5	N,N-Dimethyl acetamide, DMAC.	Dimetil acetamida	300 ppm	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Dimethylamine	124-40-3	Dimethylamine (anhydrous), N-Methylmethanamine.	Dimetilamina	500 ppm	AM
bis(2-(Dimethylamino)ethyl)ether	3033-62-3	NIAX® A99, NIAX® Catalyst A1, 2,2'-Oxybis(N,N-dimethyl ethylamine) [Note: A component (5%) of NIAX® Catalyst ESN, along with dimethylaminopropionitrile (95%).].	bis (2- (Dimetilamino) etil) éter	ND	OV
N,N-Dimethylaniline	121-69-7	Dimethylaniline [N,N-Dimethylaniline], N,N-Dimethylbenzeneamine, N,N-Dimethylphenylamine [Note: Also known as Dimethylaniline which is a correct synonym for Xylidine.].	N, N-Dimetilanilina	100 ppm	OV
Dimethyl carbamoyl chloride	79-44-7	Chloroformic acid dimethylamide, Dimethylcarbamic chloride, N,N-Dimethylcarbamoil chloride, DMCC.	Cloruro de dimetil carbamoilo	ND	MG
Dimethyl disulfide	624-92-0	2,3-dithiobutane; DMDS.	Dimetil disulfuro	ND	OV/AG
Dimethylethoxysilane	14857-34-2	Ethoxydimethylsilane, ethoxy (dimethyl) silicon.	Dimetiletoxisilano	ND	SA
Dimethylformamide	68-12-2	Dimethyl formamide, N,N-Dimethylformamide, DMF.	Dimetilformamida	500 ppm	OV
1,1-Dimethylhydrazine	57-14-7	Dimazine, DMH, UDMH, Unsymmetrical dimethylhydrazine.	1,1-Dimetilhidrazina	Ca [15 ppm]	AM
Dimethylphthalate	131-11-3	Dimethyl ester of 1,2-benzenedicarboxylic acid, DMP.	Dimetilftalato	2000 mg/m3	OV/P95
Dimethyl sulfate	77-78-1	Dimethyl ester of sulfuric acid, Dimethylsulfate, Methyl sulfate.	Dimetilsulfato	Ca [7 ppm]	OV
Dimethyl sulfide	75-18-3	Thiobis-methan, DMS, 2-THIAPROPANE, dimethyl thioether, Thiopropane.	Dimetil sulfuro	ND	OV/AG
Dimethyl-1,2-dibromo-2,2-dichloroethyl phosphate (Naled)	300-76-5	Dibrom®, 1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate, Naled.	Dimetil-1,2-dibromo-2,2-dicloroetilfosfato	200 mg/m3	P100



Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
m-Dinitrobenzene	99-65-0	1,3-Dinitrobenzene, meta-Dinitrobenzene.	m-Dinitrobenceno	50 mg/m3	OV/P95
p-Dinitrobenzene	100-25-4	1,4-Dinitrobenzene, para-Dinitrobenzene.	p-Dinitrobenceno	50 mg/m3	OV/P95
o-Dinitrobenzene	528-29-0	1,2-Dinitrobenzene, ortho-Dinitrobenzene.	o-Dinitrobenceno	50 mg/m3	OV/P95
Dinitro-o-cresol	534-52-1	4,6-Dinitro-o-cresol, 3,5-Dinitro-2-hydroxytoluene, 4,6-Dinitro-2-methyl phenol, DNC, DNOC.	Dinitro-o-cresol	5 mg/m3	N95
Dinitolmide	148-01-6	3,5-Dinitro-o-toluamide, 2-Methyl-3,5-dinitrobenzamide, Zoalene.	3,5-Dinitro-o-toluamida	ND	N95
Dinitrotoluene	25321-14-6	Dinitrotoluol, DNT, Methyl dinitrobenzene [Note: Various isomers of DNT exist.].	Dinitrotolueno	Ca [50 mg/m3]	OV/P95
Dioxane	123-91-1	Diethylene dioxide, Diethylene ether, Dioxan, 1,4-Dioxane, p-Dioxane.	Dioxano	Ca [500 ppm]	OV
Dioxathion	78-34-2	Delnav®, p-Dioxane-2,3-diyl ethyl phosphorodithioate, Dioxane phosphate, 2,3-p-Dioxanethiol-S,S-bis(O,O-diethyl phosphoro-dithioate), Navadel®.	Dioxatión	ND	OV/P100
Diphenylamine	122-39-4	Anilinobenzene, DPA, Phenylaniline, N-Phenylaniline, N-Phenylbenzenamine [Note: The carcinogen 4-Aminodiphenyl may be present as an impurity in the commercial product.].	Difenilamina	ND	OV/P95
Dipropyl ketone	123-19-3	Butyrone, DPK, Heptan-4-one, 4-Heptanone, Propyl ketone.	Dipropil cetona	ND	OV
Dipropylene glycol methyl ether	34590-94-8	Dipropylene glycol monomethyl ether, Dowanol® 50B.	Dipropilenglicol metil éter	600 ppm	OV
Diquat (Diquat dibromide)	85-00-7	Diquat dibromide, 1,1'-Ethylene-2,2'-bipyridyllium dibromide [Note: Diquat is a cation (C12H12N2++; 1,1'-Ethylene-2,2'-bipyridyllium ion). Various diquat salts are commercially available.].	Diquat (dibromuro de diquat)	ND	OV/P100

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Disulfiram	97-77-8	Antabuse®, bis(Diethylthiocarbamoyl) disulfide, Ro-Sulfiram®, TETD, Tetraethylthiuram disulfide.	Disulfiram	ND	OV/P100
Disulfoton	298-04-4	O,O-Diethyl S-2-(ethylthio)-ethyl phosphorodithioate, Di-Syston®, Thiodemeton.	Disulfotón	ND	OV/P100
Diuron	330-54-1	3-(3,4-Dichlorophenyl)-1,1-dimethylurea, Direx®, Karmex®.	Diuron	ND	OV/P100
Divinyl benzene	1321-74-0 (mixed isomers)	Diethyl benzene, DVB, Vinylstyrene [Note: Commercial product contains all 3 isomers, but m-isomer predominates. Usually contains an inhibitor to prevent polymerization.].	Divinilbenceno	ND	OV
1-Dodecanethiol	112-55-0	1-Dodecyl mercaptan, Dodecyl mercaptan, n-Dodecyl mercaptan, Lauryl mercaptan, n-Lauryl mercaptan, 1-Mercaptododecane.	1-Dodecanetiol	ND	OV

## E

Endosulfan	115-29-7	Benzoepin, Endosulphan, 6,7,8,9,10-Hexachloro-1,5,5a,6,9,9a-hexachloro-6,9-methano-2,4,3-benzo-dioxathiepin-3-oxide, Thiodan®.	Endosulfán	ND	SA
Endrin	72-20-8	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo,endo-5,8-dimethanonaphthalene, Hexadrin®.	Endrina	2 mg/m <sup>3</sup>	OV/P100
Enflurane	13838-16-9	2-Chloro-1-(difluoromethoxy)-1,1,2-trifluoroethane, 2-Chloro-1,1,2-trifluoroethyl difluoromethyl ether, Ethrane®.	Enflurano	ND	SA
Epichlorohydrin	106-89-8	1-Chloro-2,3-epoxypropane, 2-Chloropropylene oxide, ã-Chloropropylene oxide.	Epiclorhidrina	Ca [75 ppm]	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
EPN	2104-64-5	Ethyl p-nitrophenyl benzenethionophosphonate, O-Ethyl O-(4-nitrophenyl) phenylphosphonothioate.	o-Etil o-p-nitrofenil bencenofosfonotioato	5 mg/m <sup>3</sup>	OV/P100
Ethane	74-84-0	Bimethyl Dimethyl Ethyl hydride Methymethane.	Etano	ND	SA
Ethyl alcohol	64-17-5	Alcohol, Cologne spirit, Ethanol, EtOH, Grain alcohol.	Alcohol etílico	3300 ppm [10%LEL]	OV
Ethanolamine	141-43-5	2-Aminoethanol, β-Aminoethyl alcohol, Ethylolamine, 2-Hydroxyethylamine, Monoethanolamine.	Etanolamina	30 ppm	OV
Ethion	563-12-2	O,O,O',O'-Tetraethyl S,S'-methylene di(phosphorodithioate).	Etión	ND	OV/P100
2-Ethoxyethanol	110-80-5	Cellosolve®, EGEE, Ethylene glycol monoethyl ether.	2-Etoxietanol	500 ppm	OV
2-Ethoxyethyl acetate	111-15-9	Cellosolve® acetate, EGEEA, Ethylene glycol monoethyl ether acetate, Glycol monoethyl ether acetate.	Acetato de 2-etoxietil	500 ppm	OV
Ethyl acetate	141-78-6	Acetic ester, Acetic ether, Ethyl ester of acetic acid, Ethyl ethanoate.	Acetato de etilo	2000 ppm [10%LEL]	OV
Ethyl acrylate	140-88-5	Ethyl acrylate (inhibited), Ethyl ester of acrylic acid, Ethyl propenoate.	Acrilato de etilo	Ca [300 ppm]	OV
Ethylamine	75-04-7	Aminoethane, Ethylamine (anhydrous), Monoethylamine.	Etilamina	600 ppm	OV
Ethyl amyl ketone	541-85-5	5-Methyl-3-heptanone, Amyl ethyl ketone, 3-Methyl-5-heptanone.	Etil amil cetona	100 ppm	OV
Ethyl benzene	100-41-4	Ethylbenzol, Phenylethane.	Etilbenceno	800 ppm [10%LEL]	OV
Ethyl bromide	74-96-4	Bromoethane, Monobromoethane.	Bromuro de etilo	2000 ppm	SA

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Ethyl tert-butyl ether	637-92-3	2-ethoxy-2-methyl-propan; 2-Ethoxy-2-methylpropane; 2-ethoxy-2-methyl-propane; 2-methyl-2-ethoxypropane; Ethyl tert-butyl oxide; ethyl (2-methyl-2-propyl) ether.	Etil ter-butil éter	ND	OV
Ethyl butyl ketone	106-35-4	Butyl ethyl ketone, 3-Heptanone.	Etil butil cetona	1000 ppm	OV
Ethyl chloride	75-00-3	Chloroethane, Hydrochloric ether, Monochloroethane, Muriatic ether.	Cloruro de etilo	3800 ppm [10%LEL]	SA
Ethylene	74-85-1	Acetene, Bicarburretted hydrogen, Elayl, Ethene, Olefiant gas.	Etileno	ND	SA
Ethylene chlorohydrin	107-07-3	2-Chloroethanol, 2-Chloroethyl alcohol, Ethylene chlorohydrin.	Etilen clorhidrina	7 ppm	OV
Ethylenediamine	107-15-3	1,2-Diaminoethane, 1,2-Ethanediamine, Ethylenediamine (anhydrous).	Etilendiamina	1000 ppm	OV
Ethylene dibromide	106-93-4	1,2-Dibromoethane, Ethylene bromide, Glycol dibromide.	Dibromuro de etileno	Ca [100 ppm]	OV
Ethylene dichloride	107-06-2	1,2-Dichloroethane, Ethylene chloride, Glycol dichloride.	Dicloruro de etileno	Ca [50 ppm]	OV
Ethylene glycol	107-21-1	1,2-Dihydroxyethane, 1,2-Ethanediol, Glycol, Glycol alcohol, Monoethylene glycol.	Etilenglicol	ND	OV/P95
Ethylene glycol dinitrate	628-96-6	EGDN, 1,2-Ethanediol dinitrate, Ethylene dinitrate, Ethylene nitrate, Glycol dinitrate, Nitroglycol.	Dinitrato de etilenglicol	75 mg/m3	OV
Ethylene oxide	75-21-8	Dimethylene oxide, 1,2-Epoxy ethane, Oxirane.	Óxido de etileno	Ca [800 ppm]	SA
Ethyleneimine	151-56-4	Aminoethylene, Azirane, Aziridine, Dimethyleneimine, Dimethylenimine, Ethylenimine, Ethylimine.	Etilenimina	Ca [100 ppm]	SA
Ethyl ether	60-29-7	Diethyl ether, Diethyl oxide, Ether, Ethyl oxide, Solvent ether.	Etil éter	1900 ppm [10%LEL]	OV
Ethyl formate	109-94-4	Ethyl ester of formic acid, Ethyl methanoate.	Formiato de etilo	1500 ppm	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
2-Ethylhexanoic acid	149-57-5	Octanoic Acid, 2-ETHYLHEXOIC ACID, Ethylhexanoic acid, 2-Ethylcaproic acid.	Ácido 2-etilhexanoico	ND	OV/P95
Ethylidene norbornene	16219-75-3	ENB, 5-Ethylidenebicyclo(2.2.1)hept-2-ene, 5-Ethylidene-2-norbornene.	Etiliden norborneno	ND	OV
Ethyl isocyanate	109-90-0	Isocyanatoethene, isocyanato-ethan, Isocyanic acid ethyl ester.	Isocianato de etilo	ND	OV
Ethyl mercaptan	75-08-1	Ethanethiol, Ethyl sulfhydrate, Mercaptoethane.	Etil mercaptano	500 ppm	OV
N-Ethylmorpholine	100-74-3	4-Ethylmorpholine.	N-Etilmorfolina	100 ppm	OV
Ethyl silicate	78-10-4	Ethyl orthosilicate, Ethyl silicate (condensed), Tetraethoxysilane, Tetraethyl orthosilicate, Tetraethyl silicate.	Silicato de etilo	700 ppm	OV

## F

Fenamiphos	22224-92-6	Ethyl 3-methyl-4-(methylthio)phenyl-(1-methylethyl)phosphoramidate, Nemacur®, Phenamiphos.	Fenamifos	ND	OV/P100
Fensulfothion	115-90-2	Dasanit®, O,O-Diethyl O-(p-methylsulfinyl)phenyl)phosphorothioate, Terracur P®.	o, O-Dietil-o-4-(metilsulfinil) fenil fosforotioato	ND	OV/P100
Fenthion	55-38-9	Baytex, O,O-Dimethyl O-3-methyl-4-methylthiophenyl phosphorothioate, Entex.	Fentió n	ND	OV/P100
Ferbam	14484-64-1	tris(Dimethyldithiocarbamate)iron, Ferric dimethyl dithiocarbamate.	Ferbam	800 mg/m <sup>3</sup>	N95
Ferrovandium dust	12604-58-9	Ferrovandium.	Polvo de ferrovandio	500 mg/m <sup>3</sup>	N95
Fluorides (as F)			Fluoruros (como F)	ND	N95
Fluorine	7782-41-4	Fluorine-19.	Fluorina	25 ppm	SA
Fonofos	944-22-9	Dyfonate®, Dyphonate, O-Ethyl-S-phenyl ethylphosphorothioate, Fonophos.	Fonofos	ND	OV/P100

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Formaldehyde	50-00-0	Methanal, Methyl aldehyde, Methylene oxide.	Formaldehído	Ca [20 ppm]	FM
Formamide	75-12-7	Carbamaldehyde, Methanamide.	Formamida	ND	OV
Formic acid	64-18-6	Formic acid (85-95% in aqueous solution), Hydrogen carboxylic acid, Methanoic acid.	Ácido fórmico	30 ppm	AG
Furfural	98-01-1	Fural, 2-Furancarboxaldehyde, Furfuraldehyde, 2-Furfuraldehyde.	Furfural	100 ppm	OV
Furfuryl alcohol	98-00-0	2-Furylmethanol, 2-Hydroxymethylfuran.	Alcohol furfurílico	75 ppm	OV

## G

Gallium arsenide	1303-00-0	Gallium monoarsenide.	Arseniuro de galio	ND	N100
Gasoline	8006-61-9	Motor fuel, Motor spirits, Natural gasoline, Petrol [Note: A complex mixture of volatile hydrocarbons (paraffins, cycloparaffins, and aromatics).].	Gasolina	ND	OV
Germanium tetrahydride	7782-65-2	Germane, Germanium hydride, Monogermane, Tetrahydrogermane.	Tetrahidruro de germanio	ND	SA
Glutaraldehyde	111-30-8	Glutaric dialdehyde, 1,5-Pentanedial.	Glutaraldehído	ND	OV
Glycidol	556-52-5	2,3-Epoxy-1-propanol, Epoxypropyl alcohol, Glycide, Hydroxymethyl ethylene oxide, 2-Hydroxymethyl oxiran, 3-Hydroxypropylene oxide.	Glicidol	150 ppm	OV
Glyoxal	107-22-2	ODIX, GLYOXALE, Ethanedial, Oxalaldehyde, Biformyl, Diformal, DIFORMYL, Oxal.	Glioxal	ND	OV/P95
Grain dust (wheat, oats, barley, etc.)			Polvo de granos (trigo, avena, cebada, etc.)	ND	N95
Graphite (natural)	7782-42-5	Black lead, Mineral carbon, Plumbago, Silver graphite, Stove black [Note: Also see specific listing for Graphite (synthetic).].	Grafito (natural)	1250 mg/m3	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
<b>H</b>					
Hafnium	7440-58-6	Celtium, Elemental hafnium, Hafnium metal.	Hafnio	50 mg/m <sup>3</sup> (as Hf)	N95
Halothane	151-67-7	1-Bromo-1-chloro-2,2,2-trifluoroethane, 2-Bromo-2-chloro-1,1,1-trifluoroethane, 1,1,1-Trifluoro-2-bromo-2-chloroethane, 2,2,2-Trifluoro-1-bromo-1-chloroethane.	Halotano	ND	OV
Heptachlor	76-44-8	1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene.	Heptacloro	Ca [35 mg/m <sup>3</sup> ]	OV/P100
Heptane, all isomers	142-82-5; 108-08-7; 591-76-4; 565-59-3; 589-34-4; 590-35-2	Heptane, normal-Heptane.	Heptano, todos los isómeros	750 ppm	OV
Hexachlorobenzene	118-74-1	Julin's carbon chloride, Pentachlorophenyl chloride, Perchlorobenzene, Phenyl perchloryl.	Hexaclorobenceno	ND	OV/P95
Hexachlorobutadiene	87-68-3	HCBD, Hexachloro-1,3-butadiene, 1,3-Hexachlorobutadiene, Perchlorobutadiene.	Hexaclorobutadieno	ND	OV
Hexachlorocyclopentadiene	77-47-4	HCCPD, Hexachloro-1,3-cyclopentadiene, 1,2,3,4,5,5-Hexachloro-1,3-cyclopentadiene, Perchlorocyclopentadiene.	Hexaclorociclopentadieno	ND	OV
Hexachloroethane	67-72-1	Carbon hexachloride, Ethane hexachloride, Perchloroethane.	Hexacloroetano	Ca [300 ppm]	OV/P95
Hexachloronaphthalene	1335-87-1	Halowax® 1014.	Hexacloronaftaleno	2 mg/m <sup>3</sup>	OV/P95
Hexafluoroacetone	684-16-2	Hexafluoro-2-propanone, 1,1,1,3,3,3-Hexafluoro-2-propanone, HFA, Perfluoroacetone.	Hexafluoroacetona	9 ppm	SA
Hexafluoropropylene	116-15-14	1-Propene, 1,1,2,3,3,3-hexafluoro-, hexafluoro-propylen.	Hexafluoropropileno	ND	SA
Hexahydrophthalic anhydride, all isomers	85-42-7; 13149-00-3; 14166-21-3		Anhídrido hexahidroftálico, todos los isómeros	ND	OV/P95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Hexamethylene diisocyanate	822-06-0	1,6-Diisocyanatohexane, HDI, Hexamethylene-1,6-diisocyanate, 1,6-Hexamethylene diisocyanate, HMDI.	Diisocianato de hexametileno	ND	OV/P95
n-Hexane	110-54-3	Hexane, normal-Hexane, Hexyl hydride.	n-Hexano	1100 ppm [10%LEL]	OV
Hexane isomers (excluding n-Hexane)	75-83-2; 79-29-8; 96-14-0; 107-83-5	Diethylmethylethane, Diisopropyl, 2,2-Dimethylbutane, 2,3-Dimethylbutane, Isohexane, 2-Methylpentane, 3-Methylpentane [Note: Also see specific listing for n-Hexane.].	Isómeros de hexano (excepto n-hexano)	ND	OV
Hexamethylenediamine	124-09-4	1,6-Diaminohexane, 1,6-Hexamethylenediamine, 1,6-Hexanediamine.	Hexametilendiamina	ND	OV/P95
1-Hexene	592-41-6	Dialene 6, Hexene-1, 1-n-Hexene, Butyl ethylene, Hexylene, hex-1-ene.	1-Hexeno	ND	OV
sec-Hexyl acetate	108-84-9	1,3-Dimethylbutyl acetate, Methylisoamyl acetate.	Acetato de sec-hexilo	500 ppm	OV
Hexylene glycol	107-41-5	2,4-Dihydroxy-2-methylpentane, 2-Methyl-2,4-pentanediol, 4-Methyl-2,4-pentanediol, 2-Methylpentane-2,4-diol.	Hexilenglicol	ND	OV
Hydrazine	302-01-2	Diamine, Hydrazine (anhydrous), Hydrazine base.	Hidrazina	Ca [50 ppm]	AM
Hydrogenated terphenyls	61788-32-7	Hydrogenated diphenylbenzenes, Hydrogenated phenylbiphenyls, Hydrogenated triphenyls [Note: Complex mixture of terphenyl isomers that are partially hydrogenated.].	Terfenilos hidrogenados	ND	R95
Hydrogen bromide	10035-10-6	Anhydrous hydrogen bromide, Aqueous hydrogen bromide.	Bromuro de hidrógeno	30 ppm	AG
Hydrogen chloride	7647-01-0	Anhydrous hydrogen chloride, Aqueous hydrogen chloride, Hydrochloric acid [Note: Often used in an aqueous solution.].	Cloruro de hidrógeno	50 ppm	AG



Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Hydrogen cyanide	74-90-8	Formonitrile, Hydrocyanic acid, Prussic acid.	Cianuro de hidrógeno	50 ppm	SA
Hydrogen fluoride	7664-39-3	Anhydrous hydrogen fluoride, Aqueous hydrogen fluoride, HF-A, Hydrofluoric acid, Anhydrous hydrofluoric acid, Fluorhydric acid.	Fluoruro de hidrógeno	30 ppm	HF
Hydrogen peroxide	7722-84-1	High-strength hydrogen peroxide, Hydrogen dioxide, Hydrogen peroxide (aqueous), Hydroperoxide, Peroxide.	Peróxido de hidrógeno	75 ppm	OV
Hydrogen selenide	7783-07-5	Selenium dihydride, Selenium hydride.	Seleniuro de hidrógeno	1 ppm	MG
Hydrogen sulfide	7783-06-4	Hydrosulfuric acid, Sewer gas, Sulfuretted hydrogen.	Sulfuro de hidrógeno	100 ppm	AG
Hydroquinone	123-31-9	1,4-Benzenediol, p-Benzenediol, Dihydroxybenzene, 1,4-Dihydroxybenzene, Quinol.	Hidroquinona	50 mg/m3	OV/P95
2-Hydroxypropyl acrylate	999-61-1	HPA, $\beta$ -Hydroxypropyl acrylate, Propylene glycol monoacrylate.	Acrilato de 2-hidroxipropilo	ND	OV

Indene	95-13-6	Indonaphthene.	Indeno	ND	OV
Indium	7440-74-6	Indium metal.	Indio	ND	N95
Iodine	7553-56-2	Iodine crystals, Molecular iodine.	Yodo	2 ppm	MG/P95
Iodoform	75-47-8	Triiodomethane.	Yodoformo	ND	OV
Iron oxide	1309-37-1	Iron(III)oxide [Rouge], Iron oxide red, Red iron oxide, Red oxide, Rouge.	Óxido de hierro	ND	N95
Iron pentacarbonyl (as Fe)	13463-40-6	Iron carbonyl, Pentacarbonyl iron.	Pentacarbonilo de hierro (como Fe)	0.4 ppm	SA
Iron salts (soluble, as Fe)		Ferric chloride, Ferric nitrate, Ferric sulfate, Ferrous chloride, Ferrous sulfate, Iron(II) chloride, Iron(III) chloride, Iron(III) nitrate, Iron(II) sulfate, Iron(III) sulfate.	Sales de hierro (solubles, como Fe)	ND	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Isoamyl acetate	123-92-2	Banana oil, Isopentyl acetate, 3-Methyl-1-butanol acetate, 3-Methylbutyl ester of acetic acid, 3-Methylbutyl ethanoate.	Acetato de isoamilo	1000 ppm	OV
Isoamyl alcohol (primary)	123-51-3	Fermentation amyl alcohol, Fusel oil, Isobutyl carbinol, Isopentyl alcohol, 3-Methyl-1-butanol, Primary isoamyl alcohol.	Alcohol isoamílico (primario)	500 ppm	OV
Isobutyl alcohol	78-83-1	IBA, Isobutanol, Isopropylcarbinol, 2-Methyl-1-propanol.	Alcohol isobutílico	1600 ppm	OV
Isobutyl nitrite	542-56-3	2-methylpropyl nitrite, Nitrous acid, 2-methylpropyl ester.	Nitrito de isobutilo	ND	OV/P95
Isooctyl alcohol	26952-21-6	Isooctanol, Oxooctyl alcohol [Note: A mixture of closely related isomeric, primary alcohols with branched chains such as 2-Ethylhexanol, CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> CH(CH <sub>2</sub> CH <sub>3</sub> )CH <sub>2</sub> OH.].	Alcohol isooctílico	ND	OV
Isophorone	78-59-1	Isoacetophorone, 3,5,5-Trimethyl-2-cyclohexenone, 3,5,5-Trimethyl-2-cyclohexen-1-one.	Isoforona	200 ppm	OV
Isophorone diisocyanate	4098-71-9	IPDI, 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl-isocyanate, Isophorone diamine diisocyanate.	Diisocianato de isoforona	ND	OV/P95
2-Isopropoxyethanol	109-59-1	Ethylene glycol isopropyl ether, β-Hydroxyethyl isopropyl ether, Isopropyl Cellosolve®, Isopropyl glycol.	2-Isopropoxietanol	ND	OV
Isopropyl acetate	108-21-4	Isopropyl ester of acetic acid, 1-Methylethyl ester of acetic acid, 2-Propyl acetate.	Acetato de isopropilo	1800 ppm	OV
Isopropyl alcohol	67-63-0	Dimethyl carbinol, IPA, Isopropanol, 2-Propanol, sec-Propyl alcohol, Rubbing alcohol.	Alcohol isopropílico	2000 ppm [10%LEL]	OV
Isopropyl ether	108-20-3	Diisopropyl ether, Diisopropyl oxide, 2-Isopropoxy propane.	Éter de isopropilo	1400 ppm [10%LEL]	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Isopropyl glycidyl ether	4016-14-2	1,2-Epoxy-3-isopropoxypropane, IGE, Isopropoxymethyl oxirane.	Isopropil glicidil éter	400 ppm	OV
Isopropylamine	75-31-0	2-Aminopropane, Monoisopropylamine, 2-Propylamine, sec-Propylamine.	Isopropilamina	750 ppm	OV
N-Isopropylaniline	768-52-5	N-IPA, Isopropylaniline, N-(1-Methylethyl)-benzenamine, N-Phenylisopropylamine.	N-Isopropilanilina	ND	OV

## K

Kaolin	1332-58-7	China clay, Clay, Hydrated aluminum silicate, Hydrite, Porcelain clay [Note: Main constituent of Kaolin is Kaolinite (Al <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> ).].	Caolín	ND	N95
Kerosene	8008-20-6	Fuel Oil No. 1, Range oil [Note: A refined petroleum solvent (predominantly C9-C16), which typically is 25% normal paraffins, 11% branched paraffins, 30% monocycloparaffins, 12% dicycloparaffins, 1% tricycloparaffins, 16% mononuclear aromatics & 5% dinuclear aromatics.].	Queroseno	ND	OV/P95
Ketene	463-51-4	Carbomethene, Ethenone, Keto-ethylene.	Cetena	5 ppm	OV

## L

Lead	7439-92-1	Lead metal, Plumbum.	Plomo metal	100 mg/m <sup>3</sup> (as Pb)	N100
Lead chromate	7758-97-6	Chrome yellow Cologne yellow Crocoite King's yellow Leipzig yellow.	Cromato de plomo	ND	N100
Lindane	58-89-9	BHC, HCH, $\alpha$ -Hexachlorocyclohexane, gamma isomer of 1,2,3,4,5,6-Hexachlorocyclohexane.	Lindano	50 mg/m <sup>3</sup>	OV/P100

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
L.P.G. (Liquefied petroleum gas)	68476-85-7	Bottled gas, Compressed petroleum gas, Liquefied hydrocarbon gas, Liquefied petroleum gas [Note: A fuel mixture of propane, propylene, butanes, and butylenes].	LPG (gas licuado de petróleo)	2000 ppm [10% LEL]	SA
Lithium fluoride (as F)	7789-24-4	Fluorolithium.	Fluoruro de litio (como F)	ND	N95
Lithium hydride	7580-67-8	Lithium monohydride.	Hidruro de litio	0.5 mg/m <sup>3</sup>	N95
<b>M</b>					
Magnesium oxide fume	1309-48-4	Magnesia fume.	Humo de óxido de magnesio	750 mg/m <sup>3</sup>	N95
Malathion	121-75-5	Mercaptothion, Butanedioic acid, [(dimethoxyphosphinothioyl)thio]-, diethyl ester.	Malatión	250 mg/m <sup>3</sup>	OV/P100
Maleic anhydride	108-31-6	cis-Butenedioic anhydride, 2,5-Furanedione, Maleic acid anhydride, Toxilic anhydride.	Anhídrido maleico	10 mg/m <sup>3</sup>	OV/P95
Manganese compounds and fume (as Mn)	7439-96-5 (metal)	Colloidal manganese, Manganese-55, Manganese metal.	Compuestos y humos de de manganeso (como Mn)	500 mg/m <sup>3</sup> (as Mn)	N95
Manganese cyclopentadienyl tricarbonyl (as Mn)	12079-65-1	Cyclopentadienylmanganese tricarbonyl, Cyclopentadienyl tricarbonyl manganese, MCT.	Manganeso ciclopentadienil tricarbonilo (como Mn)	ND	SA
Mercury compounds [except alkyls] (as Hg)	7439-97-6 (metal)	Colloidal mercury, Mercury metal, Metallic mercury, Quicksilver, Liquid silver.	Compuestos de mercurio [excepto alquílicos] (como Hg)	10 mg/m <sup>3</sup> (as Hg)	HG
Mesityl oxide	141-79-7	Isobutenyl methyl ketone, Isopropylideneacetone, Methyl isobutenyl ketone, 4-Methyl-3-penten-2-one.	Óxido mesitílico	1400 ppm [10%LEL]	OV
Methacrylic acid	79-41-4	α-Methacrylic acid, Methacrylic acid (glacial), Methacrylic acid (inhibited), 2-Methylacrylic acid, 2-Methylpropenoic acid.	Ácido metacrílico	ND	OV
Methane	74-82-8	Fire damp, Marsh gas, Methyl hydride.	Metano	ND	SA

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Methyl acetate	79-20-9	Methyl ester of acetic acid, Methyl ethanoate.	Acetato de metilo	3100 ppm [10%LEL]	OV
Methyl acetylene	74-99-7	Allylene, Propine, Propyne, 1-Propyne.	Metil acetileno	1700 ppm [10%LEL]	SA
Methyl acetylene-propadiene mixture	59355-75-8	MAPP gas, Methyl acetylene-allene mixture, Methyl acetylene-propadiene mixture (stabilized), Propadiene-methyl acetylene, Propyne-allene mixture, Propyne-propadiene mixture.	Mezcla de metil acetileno-propadieno	3400 ppm [10%LEL]	SA
Methyl acrylate	96-33-3	Methoxycarbonylethylene, Methyl ester of acrylic acid, Methyl propenoate.	Metil acrilato	250 ppm	OV
Methyl alcohol	67-56-1	Carbinol, Columbian spirits, Methanol, Pyroligneous spirit, Wood alcohol, Wood naphtha, Wood spirit.	Metanol	6000 ppm	SA
Methyl Cellosolve® acetate	110-49-6	EGMEA, Ethylene glycol monomethyl ether acetate, Glycol monomethyl ether acetate, 2-Methoxyethyl acetate.	Acetato de 2-metoxietilo	200 ppm	OV
Methyl-2-cyanoacrylate	137-05-3	Mecrylate, Methyl cyanoacrylate, Methyl $\alpha$ -cyanoacrylate, Methyl ester of 2-cyanoacrylic acid.	2-Cianoacrilato de metilo	ND	OV
Methylacrylonitrile	126-98-7	2-Cyanopropene-1, 2-Cyano-1-propene, Isoprene cyanide, Isopropenyl nitrile, Methacrylonitrile, $\alpha$ -Methylacrylonitrile, 2-Methylpropenenitrile.	Metilacrilonitrilo	4 ppm	SA
Methomyl	16752-77-5	Lannate®, Methyl N-((methylamino)carbonyloxy)ethanimidothioate, S-Methyl-N-(methylcarbamoyloxy)thioacetimidate.	Metomilo	ND	OV/P100
Methoxychlor	72-43-5	p,p'-Dimethoxydiphenyltrichloroethane, DMDT, Methoxy-DDT, 2,2-bis(p-Methoxyphenyl)-1,1,1-trichloroethane, 1,1,1-Trichloro-2,2-bis-(p-methoxyphenyl)ethane.	Metoxicloro	Ca [5000 mg/m3]	OV/P100

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
2-Methoxyethanol	109-86-4	Methyl Cellosolve®, EGME, Ethylene glycol monomethyl ether, Glycol monomethyl ether.	2-Metoxietanol	200 ppm	OV
4-Methoxyphenol	150-76-5	Hydroquinone monomethyl ether, p-Hydroxyanisole, Mequinol, p-Methoxyphenol, Monomethyl ether hydroquinone.	4-Metoxifenol	ND	N95
Methylal	109-87-5	2,4-Dioxapentane, Anesthenyl, Dimethoxy methane, Dimethoxymethane, Dimethyl formal, Ethylene dimethyl ether, Formaldehyde dimethyl acetal, Formaldehyde methyl ketal, Methoxy methyl methyl ether.	Metilal	2200 ppm [10%LEL]	SA
Methylamine	74-89-5	Aminomethane, Methylamine (anhydrous), Methylamine (aqueous), Monomethylamine.	Metilamina	100 ppm	AM
Methyl (n-amyl) ketone	110-43-0	Amyl methyl ketone, n-Amyl methyl ketone, 2-Heptanone.	Metil (n-amil) cetona	800 ppm	OV
Monomethyl aniline	100-61-8	MA, (Methylamino)benzene, N-Methyl aniline, Methylphenylamine, N-Phenylmethylamine.	Monometil anilina	100 ppm	OV
Methyl bromide	74-83-9	Bromomethane, Monobromomethane.	Bromuro de metilo	Ca [250 ppm]	SA
Methyl tert-butyl ether	1634-04-4	2-methoxy-2-methyl-, 2-methoxy-2-methyl, MBT-ETHER, HP-MTBE, MTBE, tert-butyl-methyl-ether.	Metil ter-butil éter	ND	OV
Methyl n-butyl ketone	591-78-6	2-Hexanone, Butyl methyl ketone, MBK, Methyl butyl ketone.	Metil n-butil cetona	1600 ppm	OV
Methyl chloride	74-87-3	Chloromethane, Monochloromethane.	Cloruro de metilo	Ca [2000 ppm]	SA
Methyl chloroform	71-55-6	Chloroethene, 1,1,1-Trichloroethane, 1,1,1-Trichloroethane (stabilized).	Metilcloroformo	700 ppm	OV
Methylcyclohexane	108-87-2	Cyclohexylmethane, Hexahydrotoluene.	Metilciclohexano	1200 ppm [LEL]	OV
Methylcyclohexanol	25639-42-3	Hexahydroresol, Hexahydromethylphenol.	Metilciclohexanol	500 ppm	OV
o-Methylcyclohexanone	583-60-8	2-Methylcyclohexanone.	o-Metilciclohexanona	600 ppm	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Methyl cyclopentadienyl manganese tricarbonyl (as Mn)	12108-13-3	CI-2, Combustion Improver-2, Manganese tricarbonylmethylcyclopentadienyl, 2-Methylcyclopentadienyl manganese tricarbonyl, MMT.	Tricarbonilo de 2-metilciclopentadienil manganeso (como Mn)	ND	OV/P95
Methyl demeton	8022-00-2	Demeton methyl, O,O-Dimethyl 2-ethylmercaptoethyl thiophosphate, Metasystox®, Methyl mercaptophos, Methyl systox®.	Metil demeton	ND	OV/P100
Methylene bisphenyl isocyanate	101-68-8	4,4'-Diphenylmethane diisocyanate, MDI, Methylene di-p-phenylene ester of isocyanic acid, Methylene bis(4-phenyl isocyanate).	Metilendibifenil isocianato	75 mg/m <sup>3</sup>	OV/P95
4,4'-Methylenebis(2-chloroaniline)	101-14-4	DACPM, 3,3'-Dichloro-4,4'-diaminodiphenylmethane, MBOCA, 4,4'-Methylenebis(o-chloro aniline), 4,4'-Methylenebis(2-chlorobenzenamine), MOCA.	4,4'-Metilendibis (2-cloroanilina)	ND	OV
Methylene bis (4-cyclohexylisocyanate)	5124-30-1	Dicyclohexylmethane 4,4'-diisocyanate, DMDI, HMDI, Hydrogenated MDI, bis(4-Isocyanatocyclohexyl)methane, Reduced MDI, Saturated MDI.	Metilendibis (4-ciclohexilisocianato)	ND	OV/P95
4,4'-Methylenedianiline	101-77-9	4,4'-Diaminodiphenylmethane, para, para'-Diaminodiphenyl-methane, Dianilinomethane, 4,4'-Diphenylmethanediamine, MDA.	4,4'-Metilendianilina	ND	N100
Methyl ethyl ketone	78-93-3	2-Butanone, Ethyl methyl ketone, MEK, Methyl acetone.	Metil etil cetona	3000 ppm	OV
Methyl ethyl ketone peroxide	1338-23-4	2-Butanone peroxide, Ethyl methyl ketone peroxide, MEKP, MEK peroxide, Methyl ethyl ketone hydroperoxide.	Peróxido de metil etil cetona	ND	OV
Methyl formate	107-31-3	Methyl ester of formic acid, Methyl methanoate.	Formiato de metilo	4500 ppm	SA
Methyl hydrazine	60-34-4	MMH, Monomethylhydrazine.	Metilhidrazina	Ca [20 ppm]	AM

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Methyl iodide	74-88-4	Iodomethane, Monoiodomethane.	Yoduro de metilo	Ca [100 ppm]	SA
Methyl isoamyl ketone	110-12-3	Isoamyl methyl ketone, Isopentyl methyl ketone, 2-Methyl-5-hexanone, 5-Methyl-2-hexanone, MIAK.	Metil isoamil cetona	ND	OV
Methyl isobutyl carbinol	108-11-2	Isobutylmethylcarbinol, Methyl amyl alcohol, 4-Methyl-2-pentanol, MIBC.	Metil isobutil carbinol	400 ppm	OV
Methyl isobutyl ketone	108-10-1	Hexone, Isobutyl methyl ketone, Methyl isobutyl ketone, MIBK.	Metil isobutil cetona	500 ppm	OV
Methyl isocyanate	624-83-9	Methyl ester of isocyanic acid, MIC.	Isocianato de metilo	0.12 ppm	SA
Methyl isopropyl ketone	563-80-4	2-Acetyl propane, Isopropyl methyl ketone, 3-Methyl-2-butanone, 3-Methyl butan-2-one, MIPK.	Metil isopropil cetona	ND	OV
Methyl mercaptan	74-93-1	Mercaptomethane, Methanethiol, Methyl sulfhydrate.	Metil mercaptano	150 ppm	OV
Methyl methacrylate	80-62-6	Methacrylate monomer, Methyl ester of methacrylic acid, Methyl-2-methyl-2-propenoate.	Metacrilato de metilo	1000 ppm	OV
1-Methylnaphthalene	90-12-0	Naphthalene, Methyl-Naphthalene, Alpha-Methylnaphthalene.	1-Metilnaftaleno	ND	OV/P95
2-Methylnaphthalene	91-57-6	Beta-Methylnaphthalene.	2-Metilnaftaleno	ND	OV/P95
Methyl parathion	298-00-0	Azophos®, O,O-Dimethyl-O-p-nitrophenylphosphorothioate, Parathion methyl.	Metil paratión	ND	OV/P100
Methyl silicate	681-84-5	Methyl orthosilicate, Tetramethoxysilane, Tetramethyl ester of silicic acid, Tetramethyl silicate.	Metil silicato	ND	OV
alpha-Methyl styrene	98-83-9	AMS [a-Methyl styrene], Isopropenyl benzene, 1-Methyl-1-phenylethylene, 2-Phenyl propylene.	alfa-Metilestireno	700 ppm	OV



Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Methyl vinyl ketone	78-94-4	But-3-en-2-one, Vinyl methyl ketone, Butenon, Methylene acetone, 3-Buten-2-one, 2-Butenone, Butenone.	Metilvinilcetona	ND	OV
Metribuzin	21087-64-9	4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one.	Metribuzina	ND	P100
Mevinphos	7786-34-7	Phosdrin, 2-Carbomethoxy-1-methylvinyl dimethyl phosphate. [Note: Commercial product is a mixture of the cis- & trans-isomers.]	Mevinfós	4 ppm	P100
Mica (containing less than 1% quartz)	12001-26-2	Biotite, Lepidolite, Margarite, Muscovite, Phlogopite, Roscoelite, Zimwaldite.	Mica (contiene menos del 1% de cuarzo)	1500 mg/m3	N95
Mineral oil (Oil mist)	8012-95-1	Adepsine oil Heavy liquid petrolatum Heavy mineral oil Liquid parafin Liquid petrolatum Mineral oil Paraffin oil White mineral oil White oil.	Aceite mineral	2500 mg/m3	R95
Molybdenum, soluble compounds, metal and insoluble compounds	7439-98-7	Molybdenum metal.	Molibdeno, compuestos solubles, compuestos metálicos e insolubles.	5000 mg/m3 (as Mo)	N95
Monochloroacetic acid	79-11-8	alpha-Chloroacetic acid, Chloroacetic acid, Chloroethanoic acid, Minochloroacetic acid, Monochloroethanoic acid.	Ácido monocloraacético	ND	OV/P95
Monocrotophos	6923-22-4	Azodrin®, 3-Hydroxy-N-methylcrotonamide dimethylphosphate, Monocron.	Monocrotós	ND	SA
Morpholine	110-91-8	Diethylene imidoxide, Diethylene oximide, Tetrahydro-1,4-oxazine, Tetrahydro-p-oxazine.	Morfolina	1400 ppm [10%LEL]	OV
<b>N</b>					
Naphthalene	91-20-3	Naphthalin, Tar camphor, White tar.	Naftaleno	250 ppm	OV
beta-Naphthylamine	91-59-8	2-Aminonaphthalene, 2-Naphthylamine	beta-Naftilamina	ND	P100

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Natural rubber latex	9006-04-6	Poly(1-methylbut-1-ene-1,4-diyl); RUBBER LATEX; Rubber, natural; Latex rubber.	Látex de hule natural	ND	N95
Nickel metal and other compounds (as Ni)	7440-02-0 (Metal)	Elemental nickel, Nickel catalyst.	Níquel metal y otros compuestos (como Ni)	Ca [10 mg/m <sup>3</sup> (as Ni)]	N95
Nickel sulfide	12035-72-2	Nickel subsulfide, trinickel disulfide.	Sulfuro de níquel	ND	N95
Nickel carbonyl	13463-39-3	Nickel tetracarbonyl, Tetracarbonyl nickel.	Carbonilo de níquel	Ca [2 ppm]	SA
Nicotine	54-11-5	3-(1-Methyl-2-pyrrolidyl)pyridine.	Nicotina	5 mg/m <sup>3</sup>	OV/P95
Nitrapyrin	1929-82-4	2-Chloro-6-(trichloro-methyl)pyridine, N-serve®, 2,2,2,6-Tetrachloro-2-picoline, 2-Chloro-6-trichloromethyl pyridine.	Nitrapyrin	ND	OV/P100
Nitric acid	7697-37-2	Aqua fortis, Engravers acid, Hydrogen nitrate, Red fuming nitric acid, RFNA, White fuming nitric acid (WFNA).	Ácido nítrico	25 ppm	SA
Nitric oxide	10102-43-9	Mononitrogen monoxide, Nitrogen monoxide.	Óxido nítrico	100 ppm	SA
p-Nitroaniline	100-01-6	para-Aminonitrobenzene, 4-Nitroaniline, 4-Nitrobenzenamine, p-Nitrophenylamine, PNA.	p-Nitroanilina	300 mg/m <sup>3</sup>	OV/P95
Nitrobenzene	98-95-3	Essence of mirbane, Nitrobenzol, Oil of mirbane.	Nitrobenceno	200 ppm	OV
p-Nitrochlorobenzene	100-00-5	4-Chloronitrobenzene, p-Chloronitrobenzene, 1-Chloro-4-nitrobenzene, 4-Nitrochlorobenzene, PCNB, PNCB.	p-Nitroclorobenceno	Ca [100 mg/m <sup>3</sup> ]	OV
Nitroethane	79-24-3	Nitroetan.	Nitroetano	1000 ppm	OV
Nitrogen dioxide	10102-44-0	Dinitrogen tetroxide, Nitrogen peroxide.	Dióxido de nitrógeno	13 ppm	SA
Nitrogen trifluoride	7783-54-2	Nitrogen fluoride, Trifluorammine, Trifluorammonia.	Trifluoruro de nitrógeno	1000 ppm	SA
Nitroglycerine	55-63-0	Glyceryl trinitrate, NG, 1,2,3-Propanetriol trinitrate, Trinitroglycerine.	Nitroglicerina	75 mg/m <sup>3</sup>	OV
Nitromethane	75-52-5	Nitrocarböl.	Nitrometano	750 ppm	OV
1-Nitropropane	108-03-2	Nitropropane, 1-NP.	1-Nitropropano	1000 ppm	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
2-Nitropropane	79-46-9	Dimethylnitromethane, iso-Nitropropane, 2-NP.	2-Nitropropano	Ca [100 ppm]	OV
N-Nitrosodimethylamine	62-75-9	Dimethylnitrosamine, N,N-Dimethylnitrosamine, DMNA, N-Methyl-N-nitroso-methanamine, NDMA, N-Nitroso-N,N-dimethylamine.	N-Nitrosodimetilamina	ND	P100
o-Nitrotoluene	88-72-2	2-Methylnitrobenzene, o-Methylnitrobenzene, 2-Nitrotoluene, ortho-Nitrotoluene.	o-Nitrotolueno	200 ppm	OV/P95
m-Nitrotoluene	99-08-1	3-Methylnitrobenzene, m-Methylnitrobenzene, 3-Nitrotoluene, meta-Nitrotoluene.	m-Nitrotolueno	200 ppm	OV/P95
p-Nitrotoluene	99-99-0	4-Methylnitrobenzene, p-Methylnitrobenzene, 4-Nitrotoluene, para-Nitrotoluene.	p-Nitrotolueno	200 ppm	OV/P95
5-Nitro-o-toluidine	99-55-8	2-Amino-4-nitrotoluene, 2-Methyl-5-nitroaniline.	5-Nitro-o-toluidina	ND	OV/P95
Nitrous oxide	10024-97-2	Dinitrogen monoxide, Hyponitrous acid anhydride, Laughing gas.	Óxido nitroso	ND	SA
Nonane	111-84-2	n-Nonane, Nonyl hydride.	Nonano	ND	OV

## 0

Octachloronaphthalene	2234-13-1	Halowax® 1051, 1,2,3,4,5,6,7,8-Octachloronaphthalene, Perchloronaphthalene.	Octacloronaftaleno	ND	OV/P95
Octane, all isomers	111-65-9, 540-84-1	n-Octane, normal-Octane, Isooctane.	Octano, todos los isómeros	1000 ppm [10%LEL]	OV
Osmium tetroxide	20816-12-0	Osmic acid anhydride, Osmium oxide.	Tetróxido de osmio	1 mg/m3	SA
Oxalic acid (anhydrous)	144-62-7	Ethanedioic acid, Oxalic acid (aqueous), Oxalic acid dihydrate.	Ácido oxálico (anhidro)	500 mg/m3	N95
p,p'-Oxybis (benzenesulfonyl hydrazide)	80-51-3	BSH, Benzenesulfonylhydrazine, Porofor BSH.	p, p'-Oxibis (benceno sulfonyl hidrazida)	ND	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Oxygen difluoride	7783-41-7	Difluorine monoxide, Fluorine monoxide, Oxygen fluoride.	Difluoruro de oxígeno	0.5 ppm	SA
Ozone	10028-15-6	Triatomic oxygen.	Ozono	5 ppm	SA
<b>P</b>					
Paraffin wax fume	8002-74-2	Paraffin fume, Paraffin scale fume.	Humo de cera de parafina	ND	OV/P95
Paraquat	4685-14-7	1,1'-Dimethyl-4,4'-bipyridinium dichloride N,N-Dimethyl-4,4'-bipyridinium dicloride Paraquat chloride Paraquat dichloride.	Paraquat	ND	P100
Parathion	56-38-2	O,O-Diethyl-O(p-nitrophenyl) phosphorothioate, Diethyl parathion, Ethyl parathion, Parathion-ethyl.	Paratión	10 mg/m <sup>3</sup>	OV/P100
Pentaborane	19624-22-7	Pentaboron nonahydride.	Pentaborano	1 ppm	SA
Pentachloronaphthalene	1321-64-8	Halowax® 1013, 1,2,3,4,5-Pentachloronaphthalene.	Pentacloronaftaleno	ND	OV/P95
Pentachloronitrobenzene	82-68-8	Quiniozene.	Pentacloronitrobenceno	ND	OV/P100
Pentachlorophenol	87-86-5	PCP, Penta, 2,3,4,5,6-Pentachlorophenol.	Pentaclorofenol	2.5 mg/m <sup>3</sup>	OV/P95
Pentaerythritol	115-77-5	2,2-bis(Hydroxymethyl)-1,3-propanediol, Methane tetramethylol, Monopentaerythritol, PE, Tetrahydroxymethylolmethane, Tetramethylolmethane.	Pentaeritritol	ND	N95
Pentane, all isomers	78-78-4; 109-66-0; 463-82-1	n-Pentane.	Pentano, todos los isómeros	1500 ppm [10%LEL]	OV
2,4-Pentanedione	123-54-6	Diacetylmethane; Axetacetone; Acetoacetone; Acetylacetone.	Acetilacetona	ND	OV
2-Pentanone	107-87-9	Ethyl acetone, Methyl propyl ketone, MPK.	2-Pentanona	1500 ppm	OV
Pentyl acetate, other isomers	620-11-1; 624-41-9; 625-16-1		Acetato de pentilo, otros isómeros	1000 ppm	OV
Peracetic acid	79-21-0	Peroxyacetic Acid, Ethaneperoxoic acid.	Ácido peracético	ND	OV/AG

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Perchloromethyl mercaptan	594-42-3	PCM, PMM, Trichloromethane sulfenyl chloride, Trichloromethyl sulfur chloride.	Perclorometilmercaptano	10 ppm	OV
Perchloryl fluoride	7616-94-6	Chlorine fluoride oxide, Chlorine oxyfluoride, Trioxychlorofluoride.	Percloril de fluor	100 ppm	SA
Perfluorobutyl ethylene	19430-93-4	(NONAFLUOROBUTYL)ETHYLENE; 1-HEXENE, 3,3,4,4,5,5,6,6,6-NONAFLUORO-; 1H,1H,2H-NONAFLUOROHEX-1-ENE; 1H,1H,2H-PERFLUORO-1-HEXENE; NONAFLUORO-1-HEXENE; PFBE.	Perfluorobutil etileno	ND	OV
Perfluoroisobutylene	382-21-8	Octafluoro-sec-butene, Perfluor-2-methylprop-1-ene.	Perfluoroisobutileno	ND	SA
Persulfates, as persulfate	7727-21-1; 7727-54-0; 7775-27-1		Persulfatos, como persulfato	ND	N95
Phenol	108-95-2	Carbolic acid, Hydroxybenzene, Monohydroxybenzene, Phenyl alcohol, Phenyl hydroxide.	Fenol	250 ppm	OV/P95
m-Phenylenediamine	108-45-2	1,3-Benzenediamine1,3-Diaminobenzene1,3-Phenylenediamine3-Aminoanlinem-Benzenediaminem-Diaminobenzene.	m-Fenilendiamina	ND	OV/P95
o-Phenylenediamine	95-54-5	1,2-Benzenediamine o-Diaminobenzene 2-Aminoanline.	o-Fenilendiamina	ND	OV/P95
p-Phenylenediamine	106-50-3	1,4-Diaminobenzne1,4-Phenylenediamine4-Aminoanlinep-AminoanlineParaphenylenp-Benzenediaminep-Diaminobenzne.	p-Fenilendiamina	25 mg/m <sup>3</sup>	OV/P95
Phenyl ether (vapor)	101-84-8	Diphenyl ether, Diphenyl oxide, Phenoxy benzene, Phenyl oxide.	Fenil éter (vapor)	100 ppm	OV
Phenyl glycidyl ether	122-60-1	1,2-Epoxy-3-phenoxy propane, Glycidyl phenyl ether, PGE, Phenyl 2,3-epoxypropyl ether.	Fenil glicidil éter	Ca [100 ppm]	OV
Phenylhydrazine	100-63-0	Hydrazinobenzene, Monophenylhydrazine.	Fenilhidrazina	Ca [15 ppm]	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Phenyl isocyanate	103-71-9	ISO-CYANATOBENZENE, ISOCYANIC ACID PHENYL ESTER, Phenylcarbimide, phenylic mustard oil.	Isocianato de fenilo	ND	OV
Phenyl mercaptan	108-98-5	Benzenethiol, Mercaptobenzene, Thiophenol.	Fenil mercaptano	ND	OV
Phenylphosphine	638-21-1	Fenilfosfin, PF, Phosphaniline.	Fenilfosfina	ND	OV
Phorate	298-02-2	O,O-Diethyl S-(ethylthio) methylphosphorodithioate, O,O-Diethyl S-ethylthiomethylthiothionophosphate, Thimet, Timet.	Forato	ND	OV/P100
Phosgene	75-44-5	Carbon oxychloride, Carbonyl chloride, Carbonyl dichloride, Chloroformyl chloride.	Fosgeno	2 ppm	SA
Phosphine	7803-51-2	Hydrogen phosphide, Phosphorated hydrogen, Phosphorus hydride, Phosphorus trihydride.	Fosfina	50 ppm	SA
Phosphoric acid	7664-38-2	Orthophosphoric acid, Phosphoric acid (aqueous), White phosphoric acid.	Ácido fosfórico	1000 mg/m3	N95
Phosphorus (yellow)	12185-10-3	Phosphorous-31, White phosphorous, Yells phosphorous.	Fósforo (amarillo)	ND	SA
Phosphorus oxychloride	10025-87-3	Phosphorus chloride [Phosphorus oxychloride], Phosphorus oxytrichloride, Phosphoryl chloride.	Oxicloruro de fósforo	ND	AG
Phosphorus pentachloride	10026-13-8	Pentachlorophosphorus, Phosphoric chloride, Phosphorus perchloride.	Pentacloruro de fósforo	70 mg/m3	OV/AG
Phosphorus pentasulfide	1314-80-3	Phosphorus persulfide, Phosphorus sulfide, Sulfur phosphide.	Pentasulfuro de fósforo	250 mg/m3	N95
Phosphorus trichloride	7719-12-2	Phosphorus chloride [Phosphorus trichloride].	Tricloruro de fósforo	25 ppm	AG
Phthalic anhydride	85-44-9	1,2-Benzenedicarboxylic anhydride, PAN, Phthalic acid anhydride.	Anhídrido ftálico	60 mg/m3	OV/P95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
m-Phthalodinitrile	626-17-5	1,3-Benzenedicarbonitrile, 1,3-Dicyanobenzene, m-Dicyanobenzene, Isophthalodinitrile, m-PDN.	m-Ftalodinitrilo	ND	OV/P95
Picloram	1918-02-1	4-Amino-3,5,6-trichloropicolinic acid, 4-Amino-3,5,6-trichloro-2-picolinic acid, ATCP, Tordonæ.	Picloram	ND	OV/P100
Picric acid	88-89-1	Phenol trinitrate, 2,4,6-Trinitrophenol [Note: An OSHA Class A Explosive (1910.109).].	Ácido pícrico	75 mg/m3	N95
Pindone	83-26-1	tert-Butyl valone, 1,3-Dioxo-2-pivaloy-lindane, Pival®, Pivalyl, 2-Pivalyl-1,3-indandione.	Pindona	100 mg/m3	OV/P100
Piperazine and salts	110-85-0	1,4-Diazacyclohexane; 1,4-diethylenediamine; 1,4-Piperazine.	Piperazina y sales	ND	OV/P95
Platinum, metal	7440-06-4	Platinum black, Platinum metal, Platinum sponge.	Platino	ND	N95
Platinum, soluble salts	7440-06-4		Platino, sales solubles	ND	N95
Polyvinyl chloride	9002-86-2	PVC.	PVC (policloruro de vinilo)	ND	N95
Portland cement	65997-15-1	Cement, Hydraulic cement, Portland cement silicate [Note: A class of hydraulic cements containing tri- and dicalcium silicate in addition to alumina, tricalcium aluminate, and iron oxide.].	Cemento Portland	5000 mg/m3	N95
Potassium cyanide (as CN)	151-50-8	Potassium salt of hydrocyanic acid.	Cianuro de potasio (como CN)	25 mg/m3 (as CN)	SA
Potassium hydroxide	1310-58-3	Caustic potash, Lye [Potassium hydroxide], Potassium hydrate.	Hidróxido de potasio	ND	N95
Propane	74-98-6	Bottled gas, Dimethyl methane, n-Propane, Propyl hydride.	Propano	2100 ppm [10%LEL]	SA
n-Propyl alcohol	71-23-8	Ethyl carbinol, 1-Propanol, n-Propanol, Propyl alcohol.	Alcohol n-propílico	800 ppm	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Propargyl alcohol	107-19-7	1-Propyn-3-ol, 2-Propyn-1-ol, 2-Propynyl alcohol.	Alcohol propargílico	ND	OV
beta-Propiolactone	57-57-8	BPL, Hydroacrylic acid, $\beta$ -lactone, 3-Hydroxy- $\beta$ -lactone, 3-Hydroxy-propionic acid, $\beta$ -Lactone, 2-Oxetanone, 3-Propiolactone.	beta-Propiolactona	ND	OV
Propionaldehyde	123-38-6	1-PROPANAL, ALDEHYDE C3, FEMA 2923, METHYLACETALDEHYDE, N-PROPANAL.	Propaldehído	ND	SA
Propionic acid	79-09-4	Carboxyethane, Ethanecarboxylic acid, Ethylformic acid, Metacetic acid, Methyl acetic acid, Propanoic acid.	Ácido propiónico	ND	OV
Propoxur	114-26-1	Aprocarb®, o-Isopropoxyphenyl-N-methylcarbamate, N-Methyl-2-isopropoxyphenyl-carbamate.	Propoxur	ND	P100
n-Propyl acetate	109-60-4	Propylacetate, n-Propyl ester of acetic acid.	Acetato de n-propilo	1700 ppm	OV
Propylene	115-07-1	1-Propene, MethlethylMethylethene, Propene.	Propileno	ND	SA
Propylene dichloride	78-87-5	Dichloro-1,2-propane, 1,2-Dichloropropane.	Dicloruro de propileno	Ca [400 ppm]	OV
Propylene glycol dinitrate	6423-43-4	PGDN, Propylene glycol-1,2-dinitrate, 1,2-Propylene glycol dinitrate.	Dinitrato de propilenglicol	ND	OV
Propylene glycol monomethyl ether	107-98-2	Dowtherm® 209, 1-Methoxy-2-hydroxypropane, 2-Methoxy-1-methylethanol, 1-Methoxy-2-propanol, Propylene glycol methyl ether.	Propilenglicol monometil éter	ND	OV
Propylene oxide	75-56-9	1,2-Epoxy propane, Methyl ethylene oxide, Methyloxirane, Propene oxide, 1,2-Propylene oxide.	Óxido de propileno	Ca [400 ppm]	OV
Propylene imine	75-55-8	2-Methylaziridine, 2-Methylethyleneimine, Propyleneimine, Propylene imine (inhibited), Propylenimine.	Propilen imina	Ca [100 ppm]	OV
n-Propyl nitrate	627-13-4	Propyl ester of nitric acid.	Nitrato de n-propilo	500 ppm	OV



Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Pyrethrum	8003-34-7	Cinerin I or II, Jasmolin I or II, Pyrethrin I or II, Pyrethrum I or II [Note: Pyrethrum is a variable mixture of Cinerin, Jasmolin, and Pyrethrin.].	Pelite	5000 mg/m <sup>3</sup>	OV/P100
Pyridine	110-86-1	Azabenzene, Azine.	Piridina	1000 ppm	OV
<b>Q</b>					
Quinone	106-51-4	1,4-Benzoquinone, p-Benzoquinone, 1,4-Cyclohexadiene dioxide, p-Quinone.	Quinona	100 mg/m <sup>3</sup>	OV/P95
<b>R</b>					
Resorcinol	108-46-3	1,3-Benzenediol, m-Benzenediol, 1,3-Dihydroxybenzene, m-Dihydroxybenzene, 3-Hydroxyphenol, m-Hydroxyphenol.	Resorcinol	ND	N95
Rhodium (metal fume and insoluble compounds, as Rh)	7440-16-6 (metal)	Elemental rhodium.	Rodio (humos metálicos y compuestos insolubles, como Rh)	100 mg/m <sup>3</sup> (as Rh)	N95
Rhodium (soluble compounds, as Rh)			Rodio (compuestos solubles, como Rh)	2 mg/m <sup>3</sup> (as Rh)	N95
Ronnel	299-84-3	O,O-Dimethyl O-(2,4,5-trichlorophenyl) phosphorothioate, Fenchlorophos.	Ronnel	300 mg/m <sup>3</sup>	OV/P100
Rotenone	83-79-4	1,2,12,12a-Tetrahydro-8,9-dimethoxy-2-(1-methyl-ethenyl)-[1]benzopyrano [3,4-b]furo[2,3-h][1] benzopyran-6(6aH)-one.	Rotenona	2500 mg/m <sup>3</sup>	OV/P100
<b>S</b>					
Selenium	7782-49-2	Elemental selenium, Selenium alloy.	Selenio	1 mg/m <sup>3</sup> (as Se)	N95
Selenium hexafluoride	7783-79-1	Selenium fluoride.	Hexafluoruro de selenio	2 ppm	SA

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Sesone	136-78-7	Crag® herbicide No. 1, 2-(2,4-Dichlorophenoxy)ethyl sodium sulfate.	Sodio 2- (2,4-diclorfenoxi) etil sulfato	500 mg/m <sup>3</sup>	N95
Silica, crystalline quartz	14808-60-7; 1317-95-9; 14464-46-1	Cristobalite, Quartz, Tridymite, Tripoli.	Sílica (cristalina) y Cristobalita	Ca[25 mg/m <sup>3</sup> cristobalite, tridymite); 50 mg/m <sup>3</sup> (quartz, tripoli)]	N100
Silicon carbide, nonfibrous and fibrous	409-21-2	Carbon silicide, Carborundum®, Silicon monocarbide.	Carburo de silicio, partículas no fibrosas y fibras	ND	N95
Silicon tetrahydride	7803-62-5	Monosilane, Silane, Silicane.	Tetrahidruro de silicio	ND	SA
Silver (metal dust and soluble compounds, as Ag)	7440-22-4 (metal)	Silver metal, Silver nitrate.	Plata (polvo de metal y compuestos solubles, como Ag)	10 mg/m <sup>3</sup> (as Ag)	N95
Sodium azide, as Sodium azide	26628-22-8	Azide, Azium, Sodium salt of hydrazoic acid.	Azida de sodio	ND	N95
Sodium azide, as Hydrazoic acid vapor	26628-22-8	Azide, Azium, Sodium salt of hydrazoic acid.	Azida de sodio, como ácido hidrazoico, vapor	ND	SA
Sodium bisulfite	7631-90-5	Monosodium salt of sulfurous acid, Sodium acid bisulfite, Sodium bisulphite, Sodium hydrogen sulfite.	Bisulfito de sodio	ND	AG/P95
Sodium cyanide (as CN)	143-33-9	Sodium salt of hydrocyanic acid.	Cianuro de sodio (como CN)	25 mg/m <sup>3</sup> (as CN)	SA
Sodium fluoroacetate	62-74-8	SFA, Sodium monofluoroacetate.	Fluoroacetato de sodio	2.5 mg/m <sup>3</sup>	N95
Sodium hydroxide	1310-73-2	Caustic soda, Lye [Sodium hydroxide], Soda lye, Sodium hydrate.	Hidróxido de sodio	10 mg/m <sup>3</sup>	N95
Sodium metabisulfite	7681-57-4	Disodium pyrosulfite, Sodium metabisulphite, Sodium pyrosulfite.	Metabisulfito de sodio	ND	AG/P95
Starch	9005-25-8	Corn starch, Rice starch, Sorghum gum, α-Starch, Starch gum, Tapioca starch.	Almidón	ND	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Stoddard solvent	8052-41-3	Dry cleaning safety solvent, Mineral spirits, Petroleum solvent, Spotting naphtha [Note: A refined petroleum solvent with a flash point of 102-110°F, boiling point of 309-396°F, and containing >65% C10 or higher hydrocarbons.].	Solvente Stoddard	20.000 mg/m3	OV
Strychnine	57-24-9	Nux vomica, Strychnos.	Estricnina	3 mg/m3	N95
Styrene, monomer	100-42-5	Ethenyl benzene, Phenylethylene, Styrene monomer, Styrol, Vinyl benzene.	Estireno, monómero	700 ppm	OV
Subtilisins	1395-21-7 (BPN), 9014-01-1 (Carlsburg)	Bacillus subtilis, Bacillus subtilis BPN, Bacillus subtilis Carlsburg, Proteolytic enzymes, Subtilisin BPN, Subtilisin Carlsburg [Note: Commercial proteolytic enzymes are used in laundry detergents.].	Subtilisinas	ND	SA
Sucrose	57-50-1	Beet sugar, Cane sugar, Confectioner's sugar, Granulated sugar, Rock candy, Saccarose, Sugar, Table sugar.	Sacarosa	ND	N95
Sulfur dioxide	7446-09-5	Sulfur oxide, Sulfurous acid anhydride, Sulfurous oxide.	Dióxido de azufre	100 ppm	AG
Sulfur hexafluoride	2551-62-4	Sulfur fluoride [Note: May contain highly toxic sulfur pentafluoride as an impurity.].	Hexafluoruro de azufre	ND	SA
Sulfuric acid	7664-93-9	Battery acid, Hydrogen sulfate, Oil of vitriol, Sulfuric acid (aqueous).	Ácido sulfúrico	15 mg/m3	AG/P100
Sulfur monochloride	10025-67-9	Sulfur chloride, Sulfur subchloride, Thiosulfurous dichloride.	Monocloruro de azufre	5 ppm	AG
Sulfur pentafluoride	5714-22-7	Disulfur decafluoride, Sulfur decafluoride.	Pentafluoruro de azufre	1 ppm	AG
Sulfur tetrafluoride	7783-60-0	Tetrafluorosulfurane.	Tetrafluoruro de azufre	ND	AG
Sulfuryl fluoride	2699-79-8	Sulfur difluoride dioxide, Vikane®.	Fluoruro de sulfurilo	200 ppm	SA
Sulprofos	35400-43-2	Bolstar®, O-Ethyl O-(4-methylthio)phenyl S-propylphosphorodithioate.	Sulprofos	ND	OV/P100

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Synthetic vitreous fibers, continuous filament glass fibers, Glass wool fibers, Rock wool fibers, Slag wool fibers, Special purpose glass fibers			Fibras de vidrio sintéticas, filamentos continuos de fibra de vidrio, fibras de lana de roca, fibras de lana slag, fibras de vidrio de propósito especial	ND	N95
<b>T</b>					
2,4,5-T	93-76-5	2,4,5-Trichlorophenoxyacetic acid.	2,4,5-T	250 mg/m <sup>3</sup>	N95
Talc (containing no asbestos and less than 1% quartz)	14807-96-6	Hydrous magnesium silicate, Steatite talc.	Talco (que no contiene asbestos y menos del 1% de cuarzo)	1000 mg/m <sup>3</sup>	N95
Talc containing asbestos fibers	14807-96-6		Talco que contiene fibras de asbestos	ND	P100
TEDP	3689-24-5	Bladafum®, Dithion®, Sulfotep, Tetraethyl dithionopyrophosphate, Tetraethyl dithiopyrophosphate, ThioTEPP®.	Ditionopirofosfato de tetraetilo	10 mg/m <sup>3</sup>	P100
Tellurium and compounds, as Te, excluding hydrogen telluride	13494-80-9	Aurum paradoxum, Metallum problematum.	Telurio y compuestos, como Te, excluyendo el telururo de hidrógeno	25 mg/m <sup>3</sup> (as Te)	N95
Tellurium hexafluoride	7783-80-4	Tellurium fluoride.	Hexafluoruro de telurio	1 ppm	SA
Temephos	3383-96-8	Abate®, Temefos, O,O,O'-Tetramethyl O,O'-thiodi-p-phenylene phosphorothioate.	Temefos	ND	N95
Terephthalic acid	100-21-0	1,4-Benzenedicarboxylic acid, para-Phthalic acid, p-Benzenedicarboxylic acid TPA.	Ácido tereftálico	ND	N95
Terphenyls	26140-60-3	Diphenyl benzenes, Phenylbiphenyls, Terbenzenes, Triphenyls.	Terfenilos	500 mg/m <sup>3</sup>	N95
1,1,1,2-Tetrachloro-2,2-difluoroethane	76-11-9	2,2-Difluoro-1,1,1,2-tetrachloroethane, Freon® 112a, Halocarbon 112a, Refrigerant 112a.	1,1,1,2-Tetracloro-2,2-difluoroetano	2000 ppm	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
1,1,2,2-Tetrachloro-1,2-difluoroethane	76-12-0	1,2-Difluoro-1,1,2,2-tetrachloroethane, Freon® 112, Halocarbon 112, Refrigerant 112.	1,1,2,2-Tetracloro-1,2-difluoroetano	2000 ppm	OV
1,1,2,2-Tetrachloroethane	79-34-5	Acetylene tetrachloride, Symmetrical tetrachloroethane.	1,1,2,2-Tetracloroetano	Ca [100 ppm]	OV
Tetrachloroethylene	127-18-4	Perchloroethylene, Perchloroethylene, Perk, Tetrachlorethylene.	Tetracloroetileno	Ca [150 ppm]	OV
Tetrachloronaphthalene	1335-88-2	Halowax® [Tetrachloronaphthalene], Nibren wax [Tetrachloronaphthalene], Seekay wax [Tetrachloronaphthalene].	Tetracloronaftaleno	ND	OV/P95
Tetraethyl lead (as Pb)	78-00-2	Lead tetraethyl, TEL, Tetraethylplumbane.	Tetraetilo de plomo (como Pb)	40 mg/m <sup>3</sup> (as Pb)	OV
TEPP	107-49-3	Ethyl pyrophosphate, Tetraethyl pyrophosphate, Tetron®.	TEPP	5 mg/m <sup>3</sup>	P100
Tetrafluoroethylene	116-14-3	Perfluoroethene, Perfluoroethylene, Tetrafluoroethene.	Tetrafluoroetileno	ND	SA
Tetrahydrofuran	109-99-9	Diethylene oxide, 1,4-Epoxybutane, Tetramethylene oxide, THF.	Tetrahidrofurano	2000 ppm [10%LEL]	OV
Tetramethyl lead (as Pb)	75-74-1	Lead tetramethyl, Tetramethylplumbane, TML.	Tetrametilo de plomo (como Pb)	40 mg/m <sup>3</sup> (as Pb)	OV
Tetramethyl succinonitrile	3333-52-6	Tetramethyl succinodinitrile, TMSN.	Tetrametil succinonitrilo	5 ppm	OV
Tetranitromethane	509-14-8	Tetan, TNM.	Tetranitrometano	4 ppm	OV
Tetryl	479-45-8	N-Methyl-N,2,4,6-tetranitroaniline, Nitramine, 2,4,6-Tetryl, 2,4,6-Trinitrophenyl-N-methylnitramine.	Tetryl	750 mg/m <sup>3</sup>	N95
Thallium and soluble compounds, as TI	7440-28-0		Talio y compuestos solubles, como TI	ND	N95
4,4'-Thiobis (6-tert-butyl-m-cresol)	96-69-5	4,4'-Thiobis(3-methyl-6-tert-butylphenol), 1,1'-Thiobis(2-methyl-4-hydroxy-5-tert-butylbenzene).	4,4'-Tiobis (6-tert-butyl-m-cresol)	ND	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Thioglycolic acid	68-11-1	Acetyl mercaptan, Mercaptoacetate, Mercaptoacetic acid, 2-Mercaptoacetic acid, 2-Thioglycolic acid, Thiovanic acid.	Ácido tioglicólico	ND	OV
Thionyl chloride	7719-09-7	Sulfinyl chloride, Sulfur chloride oxide, Sulfurous dichloride, Sulfurous oxychloride, Thionyl dichloride.	Cloruro de tionilo	ND	AG
Thiram	137-26-8	bis(Dimethylthiocarbamoyl) disulfide, Tetramethylthiuram disulfide.	Tiram	100 mg/m3	OV/P95
Tin, metal and inorganic compounds (except SnH4)	7440-31-5		Estaño, metal y compuestos inorgánicos (excepto SnH4)	100 mg/m3 (as Sn)	N95
Tin, organic compounds, as Sn	7440-31-5		Estaño, compuestos orgánicos, como Sn	100 mg/m3 (as Sn)	OV/P95
Titanium dioxide	13463-67-7	Rutile, Titanium oxide, Titanium peroxide.	Dióxido de titanio	Ca [5000 mg/m3]	N95
Toluene	108-88-3	Methyl benzene, Methyl benzol, Phenyl methane, Toluol.	Tolueno	500 ppm	OV
Toluene-2,4-diisocyanate	584-84-9	TDI, 2,4-TDI, 2,4-Toluene diisocyanate.	Toluen-2,4-diisocianato	Ca [2.5 ppm]	OV/P95
Toluene-2,6-diisocyanate	91-08-7	TDI, 2,6-TDI, 2,6-Toluene diisocyanate.	Toluen-2,6-diisocianato	ND	OV/P95
m-Toluidine	108-44-1	3-Amino-1-methylbenzene, 1-Aminophenylmethane, m-Aminotoluene, 3-Methylaniline, 3-Methylbenzenamine, 3-Toluidine, meta-Toluidine, m-Tolylamine.	m-Toluidina	ND	OV
o-Toluidine	95-53-4	2-Aminotoluene, o-Aminotoluene, 1-Methyl-2-aminobenzene, 2-Methylaniline, o-Methylaniline, ortho-Toluidine, o-Tolylamine.	o-Toluidina	Ca [50 ppm]	OV
p-Toluidine	106-49-0	4-Aminotoluene, 4-Methylaniline, 4-Methylbenzenamine, 4-Toluidine, para-Toluidine, p-Tolylamine.	p-Toluidina	ND	OV
Tributyl phosphate	126-73-8	Butyl phosphate, TBP, Tributyl ester of phosphoric acid, Tri-n-butyl phosphate.	Tributil fosfato	30 ppm	OV/P95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Trichloroacetic acid	76-03-9	TCA, Trichloroethanoic acid.	Ácido tricloroacético	ND	OV/AG
1,2,4-Trichlorobenzene	120-82-1	unsym-Trichlorobenzene, 1,2,4-Trichlorobenzol.	1,2,4-Triclorobenceno	ND	OV
1,1,2-Trichloroethane	79-00-5	Ethane trichloride, $\beta$ -Trichloroethane, Vinyl trichloride.	1,1,2-Tricloroetano	Ca [100 ppm]	OV
Trichloroethylene	79-01-6	Ethylene trichloride, TCE, Trichloroethene, Trilene.	Tricloroetileno	Ca [1000 ppm]	OV
Trichloromonofluoromethane	75-69-4	Fluorotrichloromethane, Freon® 11, Monofluorotrichloromethane, Refrigerant 11, Trichlorofluoromethane.	Tricloromonofluorometano	2000 ppm	SA
Trichloronaphthalene	1321-65-9	Halowax® [Trichloronaphthalene], Nibren wax [Trichloronaphthalene], Seekay wax [Trichloronalhthalene].	Tricloronaftaleno	ND	OV/P95
1,2,3-Trichloropropane	96-18-4	Allyl trichloride, Glycerol trichlorohydrin, Glyceryl trichlorohydrin, Trichlorohydrin.	1,2,3-Tricloropropano	Ca [100 ppm]	OV
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	CFC-113, Chlorofluorocarbon-113, Freon® 113, Genetron® 113, Halocarbon 113, Refrigerant 113, TTE.	1,1,2-Tricloro-1,2,2-trifluoroetano	2000 ppm	SA
Triethanolamine	102-71-6	2,2',2''-Nitrilotriethanol, Tris (2-hydroxyethyl) amine.	Trietanolamina	ND	OV/P95
Triethylamine	121-44-8	TEA.	Trietilamina	200 ppm	OV
Trifluorobromomethane	75-63-8	Bromotrifluoromethane, Fluorocarbon 1301, Freon® 13B1, Halocarbon 13B1, Halon® 1301, Monobromotrifluoromethane, Refrigerant 13B1, Trifluoromonobromomethane.	Trifluorobromometano	40000 ppm	SA
1,3,5-Triglycidyl-s-triazinetriene	2451-62-9	1,3,5-Triglycidyl isocyanurate; Araldite PT-810.	1,3,5-Triglicidil-s-triazinotriona	ND	N95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Trimellitic anhydride	552-30-7	1,2,4-Benzenetricarboxylic anhydride, 4-Carboxyphthalic anhydride, TMA [Trimellitic anhydride], TMAN, Trimellic acid anhydride [Note: TMA is also a synonym for Trimethylamine.].	Anhídrido trimelítico	ND	OV/P95
Trimethylamine	75-50-3	N,N-Dimethylmethanamine, TMA [Trimethylamine] [Note: May be used in an aqueous solution (typically 25%, 30%, or 40% TMA.).]	Trimetilamina	ND	AM
Trimethyl benzene	25551-13-7	Methylxylene.	Trimetil benceno	ND	OV
Trimethyl phosphite	121-45-9	Methyl phosphite, Trimethoxyphosphine, Trimethyl ester of phosphorous acid.	Trimetil fosfito	ND	OV
2,4,6-Trinitrotoluene	118-96-7	1-Methyl-2,4,6-trinitrobenzene, TNT, Trinitrotoluene, sym-Trinitrotoluene, Trinitrotoluol.	2,4,6-Trinitrotolueno	500 mg/m <sup>3</sup>	OV/P95
Triorthocresyl phosphate	78-30-8	TCP, TOCP, Tri-o-cresyl ester of phosphoric acid, Tri-o-cresyl phosphate.	Triortocresil fosfato	40 mg/m <sup>3</sup>	R95
Triphenyl phosphate	115-86-6	Phenyl phosphate, TPP, Triphenyl ester of phosphoric acid.	Trifenil fosfato	1000 mg/m <sup>3</sup>	N95
Tungsten and compounds, in the absence of Cobalt	7440-33-7	Tungsten metal, Wolfram.	Tungsteno, compuestos, en ausencia de Cobalto	ND	N95
Turpentine	8006-64-2	Gumspirits, Gum turpentine, Spirits of turpentine, Steam distilled turpentine, Sulfate wood turpentine, Turps, Wood turpentine.	Aguarrás, trementina	800 ppm	OV
<b>U</b>					
Uranium, (insoluble compounds, as U)	7440-61-1 (metal)	Uranium I, Uranium metal.	Uranio (compuestos insolubles, como U)	Ca [10 mg/m <sup>3</sup> (as U)]	P100
Uranium, (soluble compounds, as U)	7440-61-1		Uranio (compuestos solubles, como U)	Ca [10 mg/m <sup>3</sup> (as U)]	P100



Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
<b>V</b>					
n-Valeraldehyde	110-62-3	Amyl aldehyde, Pentanal, Valeral, Valeraldehyde, Valeric aldehyde.	n-Valeraldehído	ND	OV
Vanadium pentoxide, as V	1314-62-1	Divanadium pentoxide dust, Vanadic anhydride dust, Vanadium oxide dust, Vanadium pentaoxide dust.	Pentóxido de vanadio	35 mg/m3 (as V)	N95
Vinyl acetate	108-05-4	1-Acetoxyethylene, Ethenyl acetate, Ethenyl ethanoate, VAC, Vinyl acetate monomer, Vinyl ethanoate.	Acetato de vinilo	ND	OV
Vinyl bromide	593-60-2	Bromoethene, Bromoethylene, Monobromoethylene.	Bromuro de vinilo	ND	SA
Vinyl chloride	75-01-4	Chloroethene, Chloroethylene, Ethylene monochloride, Monochloroethene, Monochloroethylene, VC, VCM, Vinyl chloride monomer (VCM).	Cloruro de vinilo	ND	SA
4-Vinylcyclohexene	100-40-3	1,2,3,4-Tetrahydrostyrene, 1-Venylcyclohex-3-ene, 1-Vinylcyclohexene-3, 4-Ethenyl-1-cyclohexene, 4-Vinyl-1-cyclohexene 4-Vinylcyclohexene-1, Butadiene dimer, Cyclohexenylethylene.	4-Vinilciclohexeno	ND	OV
Vinyl cyclohexene dioxide	106-87-6	1-Epoxyethyl-3,4-epoxy-cyclohexane, 4-Vinylcyclohexene diepoxide, 4-Vinyl-1-cyclohexene dioxide.	Dióxido de vinil ciclohexeno	ND	OV
Vinyl fluoride	75-02-5	Fluoroethene, Fluoroethylene, Monofluoroethylene, Vinyl fluoride monomer.	Fluoruro de vinilo	ND	SA
N-Vinyl-2-pyrrolidone	88-12-0	1-Ethenyl-2-pyrrolidinone, 1-vinyl-2-pyrrolidinon, Vinylbutyrolactam, Vinylpyrrolidinone.	N-Vinil-2-pirrolidona	ND	OV

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
Vinylidene chloride	75-35-4	1,1-DCE, 1,1-Dichloroethene, 1,1-Dichloroethylene, VDC, Vinylidene chloride monomer, Vinylidene dichloride.	Cloruro de vinilideno	ND	OV
Vinylidene fluoride	75-38-7	1,1-Difluoroethene, Difluoro-1,1-ethylene, 1,1-Difluoroethylene, Halocarbon 1132A, VDF, Vinylidene difluoride.	Fluoruro de vinilideno	ND	SA
Vinyl toluene	25013-15-4	Ethenylmethylbenzene, Methylstyrene, Tolyethylene.	Vinil tolueno	400 ppm	OV
<b>W</b>					
Warfarin	81-81-2	3-( $\alpha$ -Acetyl)-benzyl-4-hydroxycoumarin, 4-Hydroxy-3-(3-oxo-1-phenyl butyl)-2H-1-benzopyran-2-one, WARF.	Warfarina	100 mg/m <sup>3</sup>	N95
Wood dust		Hard wood dust, Soft wood dust, Western red cedar dust.	Polvo de madera	ND	N95
<b>X</b>					
Xylene, all isomers	1330-20-7; 95-47-6; 106-42-3; 108-38-8		Xileno, todos los isómeros	ND	OV
m-Xylene-alpha, alpha'-diamine	1477-55-0	1,3-bis(Aminomethyl)benzene, 1,3-Benzenedimethanamine, MXDA, m-Phenylenebis(methylamine), m-Xylylenediamine.	m-Xileno-alfa, alfa'-diamina	ND	OV/P95
Xylidine	1300-73-8	Aminodimethylbenzene, Aminoxylene, Dimethylaminobenzene, Dimethylaniline [Xylidene], 2,4-Dimethylaniline, Xylidine isomers [Note: Dimethylaniline is also used as a synonym for N,N-Dimethylaniline.].	Xilidina	50 ppm	OV/P95

Substance	CAS No.	Synonyms	Sustancia	IDLH	Filter / Filtro
<b>Y</b>					
Yttrium and compounds, as Y	7440-65-5	Yttrium metal.	Itrio y compuestos, como Y	500 mg/m3 (as Y)	N95
<b>Z</b>					
Zinc chloride fume	7646-85-7	Zinc dichloride fume.	Cloruro de zinc, humo	50 mg/m3	N95
Zinc oxide	1314-13-2	Zinc peroxide.	Óxido de zinc	500 mg/m3	N95
Zinc stearate	557-05-1	Dibasic zinc stearate, Zinc distearate, Zinc salt of stearic acid.	Estearato de zinc	ND	N95
Zirconium and compounds (as Zr)	7440-67-7	Zirconium.	Circonio y compuestos (como Zr)	25 mg/m3 (as Zr)	N95