



PROGRASS® HERBICIDE

Version 3.0 / USA
10200000915

1/14
Revision Date: 07/14/2015
Print Date: 08/11/2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name PROGRASS® HERBICIDE

Product code (UVP) 05934648

SDS Number 102000000915

EPA Registration No. 432-941

Relevant identified uses of the substance or mixture and uses advised against

Use Herbicide

Restrictions on use See product label for restrictions.

Information on supplier

Supplier Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
United States

Responsible Department Email: SDSINFO.BCS-NA@bayer.com

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577

Product Information Telephone Number 1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Serious eye damage: Category 1

Flammable liquids: Category 3



Signal word: Danger

Hazard statements

Causes serious eye damage.

Flammable liquid and vapour.

Precautionary statements

Wear protective gloves and eye protection/face protection.

Keep away from open flames/hot surfaces. - No smoking.



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Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor/physician.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local regulation.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Ethofumesate	26225-79-6	19.0
Cyclohexanone	108-94-1	15.0
Xylene	1330-20-7	60.5
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1.18
Naphthalene	91-20-3	0.11

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim



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unattended.

Most important symptoms and effects, both acute and delayed

Symptoms Local: Severe irritation
Systemic: To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

Risks Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.

Treatment Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable High volume water jet

Special hazards arising from the substance or mixture Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for fire-fighters In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information Keep out of smoke. Fight fire from upwind position. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Do not allow run-off from fire fighting to enter drains or water courses. Whenever possible, contain fire-fighting water by diking area with sand or earth.

Flash point 29 °C

Autoignition temperature > 480 °C / 896 °F
The data refer to the solvent.

Lower explosion limit 1.1 %(V)
The data refer to the solvent.

Upper explosion limit 6.6 %(V)
The data refer to the solvent.

Explosivity not applicable



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition.

Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean floors and contaminated objects with plenty of water.

Additional advice Use personal protective equipment. Do not allow product to contact non-target plants. Do not allow to enter soil, waterways or waste water canal.

Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Handle and open container in a manner as to prevent spillage.

Advice on protection against fire and explosion Keep away from heat and sources of ignition. Vapours may form explosive mixture with air. Take measures to prevent the build up of electrostatic charge. Use only explosion-proof equipment.

Hygiene measures Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Ethofumesate	26225-79-6	10 mg/m ³ (TWA)		OES BCS*



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Cyclohexanone	108-94-1	50 ppm (STEL)	02 2012	ACGIH
Cyclohexanone	108-94-1	20 ppm (TWA)	02 2012	ACGIH
Cyclohexanone	108-94-1	100 mg/m3/25 ppm (REL)	2010	NIOSH
Cyclohexanone	108-94-1	200 mg/m3/50 ppm (PEL)	02 2006	OSHA Z1
Cyclohexanone	108-94-1	100 mg/m3/25 ppm (TWA)	1989	OSHA Z1A
Cyclohexanone	108-94-1	100 mg/m3/25 ppm (TWA)	06 2008	TN OEL
Cyclohexanone	108-94-1	80ug/m3 (AN ESL)	07 2011	TX ESL
Cyclohexanone	108-94-1	480ug/m3 (ST ESL)	07 2011	TX ESL
Cyclohexanone	108-94-1	120ppb (ST ESL)	07 2011	TX ESL
Cyclohexanone	108-94-1	20ppb (AN ESL)	07 2011	TX ESL
Cyclohexanone	108-94-1	100 mg/m3/25 ppm (TWA PEL)	08 2010	US CA OEL
Xylene	1330-20-7	100 ppm (TWA)	02 2012	ACGIH
Xylene	1330-20-7	150 ppm (STEL)	02 2012	ACGIH
Xylene	1330-20-7	435 mg/m3/100 ppm (REL)	2010	NIOSH
Xylene	1330-20-7	655 mg/m3/150 ppm (STEL)	2010	NIOSH
Xylene	1330-20-7	435 mg/m3/100 ppm (REL)	2010	NIOSH
Xylene	1330-20-7	655 mg/m3/150 ppm (STEL)	2010	NIOSH
Xylene	1330-20-7	435 mg/m3/100 ppm (REL)	2010	NIOSH
Xylene	1330-20-7	655 mg/m3/150 ppm (STEL)	2010	NIOSH
Xylene	1330-20-7	435 mg/m3/100 ppm (PEL)	02 2006	OSHA Z1
Xylene	1330-20-7	655 mg/m3/150 ppm (STEL)	1989	OSHA Z1A
Xylene	1330-20-7	435 mg/m3/100 ppm (TWA)	1989	OSHA Z1A
Xylene	1330-20-7	655 mg/m3/150 ppm (STEL)	06 2008	TN OEL
Xylene	1330-20-7	435 mg/m3/100 ppm (TWA)	06 2008	TN OEL



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Xylene	1330-20-7	42ppb (AN ESL)	07 2011	TX ESL
Xylene	1330-20-7	350ug/m3 (ST ESL)	07 2011	TX ESL
Xylene	1330-20-7	180ug/m3 (AN ESL)	07 2011	TX ESL
Xylene	1330-20-7	80ppb (ST ESL)	07 2011	TX ESL
Xylene	1330-20-7	435 mg/m3/100 ppm (TWA PEL)	08 2010	US CA OEL
Xylene	1330-20-7	300 ppm (CEILING)	08 2010	US CA OEL
Xylene	1330-20-7	655 mg/m3/150 ppm (STEL)	08 2010	US CA OEL
Xylene	1330-20-7	100 ppm (TWA)		OES BCS*
Solvent Naphtha (petroleum), heavy aromatic (Non-aerosol.)	64742-94-5	200 mg/m3 (TWA)	03 2014	ACGIH
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	400 mg/m3/100 ppm (REL)	2010	NIOSH
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	100 mg/m3 (REL)	2010	NIOSH
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	400 mg/m3/100 ppm (PEL)	02 2006	OSHA Z1
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	400 mg/m3/100 ppm (TWA)	1989	OSHA Z1A
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	400 mg/m3/100 ppm (TWA)	06 2008	TN OEL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	256ug/m3 (AN ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	460ppb (ST ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	46ppb (AN ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	2560ug/m3 (ST ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1,600 mg/m3/400 ppm (TWA PEL)	08 2010	US CA OEL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1,800 mg/m3/400 ppm (STEL)	09 2013	US CA OEL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1,350 mg/m3/300 ppm (TWA PEL)	09 2013	US CA OEL
Naphthalene	91-20-3	10 ppm (TWA)	02 2012	ACGIH
Naphthalene	91-20-3	50 mg/m3/10 ppm (REL)	2010	NIOSH
Naphthalene	91-20-3	75 mg/m3/15 ppm	2010	NIOSH



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		(STEL)		
Naphthalene	91-20-3	50 mg/m3/10 ppm (PEL)	02 2006	OSHA Z1
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	1989	OSHA Z1A
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA)	1989	OSHA Z1A
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA)	06 2008	TN OEL
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	06 2008	TN OEL
Naphthalene	91-20-3	50ug/m3 (AN ESL)	07 2011	TX ESL
Naphthalene	91-20-3	200ug/m3 (ST ESL)	02 2013	TX ESL
Naphthalene	91-20-3	38ppb (ST ESL)	02 2013	TX ESL
Naphthalene	91-20-3	10ppb (AN ESL)	07 2011	TX ESL
Naphthalene	91-20-3	0.5 mg/m3/0.1 ppm (TWA PEL)	10 2014	US CA OEL
Naphthalene	91-20-3	10 ppm (TWA)		OES BCS*

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection

Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)

Eye protection

Chemical resistant goggles must be worn.

Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Keep and wash PPE separately from other laundry.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	yellow to brown
Physical State	liquid clear
Odor	aromatic
Odour Threshold	no data available
pH	no data available
Vapor Pressure	10 mbar / 7.5 mm Hg at 20 °C The data refer to the solvent.
Vapor Density (Air = 1)	3.7 The data refer to the solvent.
Density	ca. 0.95 g/cm ³ at 20 °C
Evaporation rate	no data available
Boiling Point	137 - 141 °C / 278.6 - 285.8 °F Information refers to the solvent.
Melting / Freezing Point	no data available
Water solubility	miscible
Minimum Ignition Energy	not applicable
Decomposition temperature	no data available
Partition coefficient: n-octanol/water	not applicable
Viscosity	no data available
Flash point	29 °C
Autoignition temperature	> 480 °C / 896 °F The data refer to the solvent.
Lower explosion limit	1.1 %(V) The data refer to the solvent.
Upper explosion limit	6.6 %(V) The data refer to the solvent.
Explosivity	not applicable
Other information	Further safety related physical-chemical data are not known.



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SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition	no data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	Extremes of temperature and direct sunlight. Heat, flames and sparks.
Incompatible materials	no data available
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Eye contact, Skin Absorption, Inhalation, Ingestion
Immediate Effects	
Eye	Corrosive - causes irreversible eye damage. Vapors may cause eye irritation.
Skin	Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. Repeated contact may sensitize the skin, leading to allergic reactions. May be harmful if absorbed through skin.
Ingestion	May be harmful if swallowed.
Inhalation	Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Information on toxicological effects	
Acute oral toxicity	LD50 (rat) > 5,660 mg/kg
Acute inhalation toxicity	LC50 (male/female combined rat) > 5.4 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.
Acute dermal toxicity	LD50 (rat) > 4,000 mg/kg
Skin irritation	Slight irritation (rabbit)
Eye irritation	Severe eye irritation. (rabbit)
Assessment repeated dose toxicity	
	Ethofumesate did not cause specific target organ toxicity in experimental animal studies.
Assessment mutagenicity	



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Ethofumesate was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Ethofumesate was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

Cyclohexanone	108-94-1	Group A3
Xylene	1330-20-7	Group A4
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	Group A3
Naphthalene	91-20-3	Group A3

NTP

Naphthalene	91-20-3
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IARC

Cyclohexanone	108-94-1	Overall evaluation: 3
Xylene	1330-20-7	Overall evaluation: 3
Naphthalene	91-20-3	Overall evaluation: 2B

OSHA

None.

Assessment toxicity to reproduction

Ethofumesate did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Ethofumesate did not cause developmental toxicity in rats and rabbits.

Further information

Acute toxicity studies have been bridged from a similar formulation(s).
The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Danio rerio (Zebra fish)) 45 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 93.2 mg/l Exposure time: 48 h
Toxicity to aquatic plants	IC50 (Desmodesmus subspicatus (green algae)) 3.9 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient ethofumesate. EC50 (Lemna minor (Common duck-weed)) 50.4 mg/l Biomass; Exposure time: 336 h The value mentioned relates to the active ingredient ethofumesate. EC50 (Lemna minor (Common duck-weed)) > 52.8 mg/l



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	Growth rate; Exposure time: 336 h The value mentioned relates to the active ingredient ethofumesate.
Biodegradability	Ethofumesate: not rapidly biodegradable
Koc	Ethofumesate: Koc: 147
Bioaccumulation	Ethofumesate: Bioconcentration factor (BCF) 144 Does not bioaccumulate.
Mobility in soil	Ethofumesate: Moderately mobile in soils
Environmental precautions	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor runoff or drift. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose in accordance with all local, state/provincial and federal regulations. Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.
Contaminated packaging	Do not re-use empty containers. Triple rinse containers. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke. Follow advice on product label and/or leaflet.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR

UN number	1993
Class	3
Packaging group	III
Proper shipping name	FLAMMABLE LIQUIDS, N.O.S. (XYLENE, CYCLOHEXANONE)
RQ	Reportable Quantity is reached with 165 lb of product.



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IMDG

UN number 1993
Class 3
Packaging group III
Marine pollutant NO
Proper shipping name FLAMMABLE LIQUID, N.O.S.
(XYLENE SOLUTION)

IATA

UN number 1993
Class 3
Packaging group III
Environm. Hazardous Mark NO
Proper shipping name FLAMMABLE LIQUID, N.O.S.
(XYLENE SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: COMPOUNDS, TREE OR WEEDKILLING, N.O.I., other than poison; HAVING A DENSITY OF GREATER THAN 20 LBS. PER CUBIC FOOT

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-941

US Federal Regulations

TSCA list

Cyclohexanone 108-94-1
Xylene 1330-20-7
Solvent Naphtha (petroleum), heavy aromatic 64742-94-5
Naphthalene 91-20-3

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Xylene 1330-20-7 1.0%
Naphthalene 91-20-3

US States Regulatory Reporting

CA Prop65

This product contains a chemical known to the State of California to cause cancer.

Naphthalene 91-20-3

US State Right-To-Know Ingredients



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Cyclohexanone	108-94-1	CA, CT, IL, MN, NJ, RI
Xylene	1330-20-7	CA, CT, IL, MI, MN, NJ, RI
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	CA, CT, MN, NJ
Naphthalene	91-20-3	CA, CT, IL, MN, NJ, RI

Canadian Regulations
Canadian Domestic Substance List
None.

Environmental
CERCLA

Cyclohexanone	108-94-1	
Xylene	1330-20-7	
Naphthalene	91-20-3	100 lbs

Clean Water Section 307 Priority Pollutants

Naphthalene 91-20-3

Safe Drinking Water Act Maximum Contaminant Levels

Xylene 1330-20-7
Naphthalene 91-20-3

EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Danger!

Hazard statements: Corrosive - causes irreversible eye damage.
Causes skin irritation.
Do not get in eyes or on clothing.
Avoid inhalation of vapour or mist.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
CAS-Nr.	Chemical Abstracts Service number
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development



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TDG Transportation of Dangerous Goods
TWA Time weighted average
UN United Nations
WHO World health organisation

NFPA 704 (National Fire Protection Association):

Health - 3 Flammability - 3 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 3 Flammability - 3 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

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