## 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<br>A division of Bayer CropScience LP<br>500 Centregreen Way, Suite 400<br>Cary, NC 27513<br>USA |
| **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**
Flammable liquids: Category 2
Serious eye damage: Category 1
Carcinogenicity, Specific target organ toxicity - repeated exposure, Reproductive toxicity: Category 2
Specific target organ toxicity - single exposure: Category 3
Aspiration hazard: Category 1

**Labelling in accordance with regulation HCS 29CFR §1910.1200**

**Signal word**: Danger

**Hazard statements**

Suspected of causing cancer.
Causes serious eye damage.
Flammable liquid and vapour.
May cause respiratory irritation.
Causes damage to organs through prolonged or repeated exposure.
Suspected of damaging fertility or the unborn child.
May be fatal if swallowed and enters airways.

**Precautionary statements**

Do not handle until all safety precautions have been read and understood.
Obtain special instructions before use.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from open flames/hot surfaces. - No smoking.
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.
Use only outdoors or in a well-ventilated area.
Do not breathe gas/ mist/ vapours/ spray.
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.
IF exposed or concerned: Get medical advice/ attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor/physician if you feel unwell.
Get medical advice/ attention if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.
Do NOT induce vomiting.
Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.
Dispose of contents/container in accordance with local regulation.

**Hazards Not Otherwise Classified (HNOC)**

No physical hazards not otherwise classified.
No health hazards not otherwise classified.

## 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 | 47.9 |
| Solvent Naphtha (petroleum), heavy aromatic,<1% Naphthalene | 64742-94-5 | 1.13 |
| Ethylbenzene | 100-41-4 | 11.41 |
| Naphthalene | 91-20-3 | 0.14 |
| Branched calcium dodecyl benzene sulfonate | 68953-96-8 | 1.17 |
| Toluene | 108-88-3 | 0.57 |

## 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 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.

## 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 firefighters** | 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 |
| **Auto-ignition temperature** | > 480 °C / 896 °F<br>The data refer to the solvent. |
| **Lower explosion limit** | 1.1 %(V)<br>The data refer to the solvent. |
| **Upper explosion limit** | 6.6 %(V)<br>The data refer to the solvent. |
| **Explosivity** | Not applicable |

## 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. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. |
| **Reference to other sections** | Information regarding safe handling, see section 7.<br>Information regarding personal protective equipment, see section 8.<br>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** | Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.<br>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/m3 (TWA) | | OES BCS* |
| Cyclohexanone | 108-94-1 | 20 ppm (TWA) | 02 2012 | ACGIH |
| Cyclohexanone | 108-94-1 | 50 ppm (STEL) | 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 | 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) | 2016 | NIOSH |
| Xylene | 1330-20-7 | 655 mg/m3/150 ppm (STEL) | 2016 | NIOSH |
| Xylene | 1330-20-7 | 435 mg/m3/100 ppm (PEL) | 02 2006 | OSHA Z1 |
| Xylene | 1330-20-7 | 435 mg/m3/100 ppm (TWA) | 06 2008 | TN OEL |
| Xylene | 1330-20-7 | 655 mg/m3/150 ppm (STEL) | 01 2019 | TN 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 | 435 mg/m3/100 ppm (TWA PEL) | 08 2010 | US CA OEL |
| Xylene | 1330-20-7 | 100 ppm (TLV) | | OES BCS* |
| Solvent Naphtha (petroleum), heavy aromatic,<1% Naphthalene<br><br>(Non-aerosol.) | 64742-94-5 | 200 mg/m3 (TWA) | 03 2014 | ACGIH |
| Solvent Naphtha (petroleum), heavy aromatic,<1% Naphthalene | 64742-94-5 | 100 mg/m3 (REL) | 2010 | NIOSH |
| Solvent Naphtha (petroleum), heavy aromatic,<1% Naphthalene | 64742-94-5 | 1,600 mg/m3/400 ppm (TWA PEL) | 08 2010 | US CA OEL |
| Ethylbenzene | 100-41-4 | 20 ppm (TWA) | 02 2012 | ACGIH |
| Ethylbenzene | 100-41-4 | 435 mg/m3/100 ppm (REL) | 2010 | NIOSH |
| Ethylbenzene | 100-41-4 | 545 mg/m3/125 ppm (STEL) | 2010 | NIOSH |
| Ethylbenzene | 100-41-4 | 435 mg/m3/100 ppm (PEL) | 02 2006 | OSHA Z1 |
| Ethylbenzene | 100-41-4 | 435 mg/m3/100 ppm (TWA) | 06 2008 | TN OEL |

| | | | | |
|---|---|---|---|---|
| Ethylbenzene | 100-41-4 | 545 mg/m3/125 ppm (STEL) | 01 2019 | TN OEL |
| Ethylbenzene | 100-41-4 | 130 mg/m3/30 ppm (STEL) | 09 2013 | US CA OEL |
| Ethylbenzene | 100-41-4 | 22 mg/m3/5 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 (STEL) | 2010 | NIOSH |
| Naphthalene | 91-20-3 | 50 mg/m3/10 ppm (PEL) | 02 2006 | OSHA Z1 |
| Naphthalene | 91-20-3 | 75 mg/m3/15 ppm (STEL) | 06 2008 | TN OEL |
| Naphthalene | 91-20-3 | 50 mg/m3/10 ppm (TWA) | 06 2008 | TN OEL |
| Naphthalene | 91-20-3 | 0.5 mg/m3/0.1 ppm (TWA PEL) | 10 2014 | US CA OEL |
| Naphthalene | 91-20-3 | 10 ppm (TLV) | | OES BCS* |
| Toluene | 108-88-3 | 20 ppm (TWA) | 02 2012 | ACGIH |
| Toluene | 108-88-3 | 375 mg/m3/100 ppm (REL) | 2010 | NIOSH |
| Toluene | 108-88-3 | 560 mg/m3/150 ppm (STEL) | 2010 | NIOSH |
| Toluene | 108-88-3 | 375 mg/m3/100 ppm (TWA) | 1989 | OSHA Z1A |
| Toluene | 108-88-3 | 560 mg/m3/150 ppm (STEL) | 1989 | OSHA Z1A |
| Toluene | 108-88-3 | 500 ppm (MAX. CONC) | 02 2006 | OSHA Z2 |
| Toluene | 108-88-3 | 200 ppm (TWA) | 02 2006 | OSHA Z2 |
| Toluene | 108-88-3 | 300 ppm (CEILING) | 02 2006 | OSHA Z2 |
| Toluene | 108-88-3 | 375 mg/m3/100 ppm (TWA) | 06 2008 | TN OEL |
| Toluene | 108-88-3 | 580 mg/m3/150 ppm (STEL) | 06 2008 | TN OEL |
| Toluene | 108-88-3 | 560 mg/m3/150 ppm (STEL) | 08 2010 | US CA OEL |
| Toluene | 108-88-3 | 37 mg/m3/10 ppm (TWA PEL) | 02 2012 | US CA OEL |
| Toluene | 108-88-3 | 500 ppm (CEILING) | 08 2010 | US CA OEL |

| | | | | |
|---|---|---|---|---|
| Toluene | 108-88-3 | 20 ppm (TLV) | | OES BCS* |

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

**Biological occupational exposure limits**

| Components | CAS-No. | Parameters | Biological specimen | Sampling time | Conc. | Basis |
|---|---|---|---|---|---|---|
| Cyclohexanone | 108-94-1 | 1,2-Cyclohexanediol, with hydrolysis | Urine | Sampling time: End of shift at end of work week. | 80 mg/l | ACGIH BEI |
| Cyclohexanone | 108-94-1 | Cyclohexanol, with hydrolysis | Urine | Sampling time: End of shift. | 8 mg/l | ACGIH BEI |
| Xylene | 1330-20-7 | Methylhippuric acids | Creatinine in urine | Sampling time: End of shift. | 1.5 g/g | ACGIH BEI |
| Ethylbenzene | 100-41-4 | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | Sampling time: End of shift. | 0.15 g/g | ACGIH BEI |
| Naphthalene | 91-20-3 | 1-Naphthol, with hydrolysis + 2-Naphthol, with hydrolysis | | Sampling time: End of shift. | | ACGIH BEI |
| Toluene | 108-88-3 | o-Cresol, with hydrolysis | Creatinine in urine | Sampling time: End of shift. | 0.3 mg/g | ACGIH BEI |
| Toluene | 108-88-3 | toluene | Blood | Sampling time: Prior to last shift of work week. | 0.02 mg/l | ACGIH BEI |
| Toluene | 108-88-3 | toluene | Urine | Sampling time: End of shift. | 0.03 mg/l | ACGIH BEI |

**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 nitrile rubber gloves

| | |
|---|---|
| **Eye protection** | Use tightly sealed goggles and face protection. |
| **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.<br>Keep and wash PPE separately from other laundry. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance** | yellow to brown |
| **Physical State** | clear Liquid |
| **Odor** | aromatic |
| **Odour Threshold** | No data available |
| **pH** | No data available |
| **Viscosity, kinematic** | No data available |
| **Vapor Pressure** | 10 mbar / 7.5 mm Hg (20 °C)<br>The data refer to the solvent. |
| **Vapor Density (Air = 1)** | 3.7<br>The data refer to the solvent. |
| **Density** | ca. 0.95 g/cm³ (20 °C) |
| **Evaporation rate** | No data available |
| **Boiling Point** | 137 - 141 °C / 278.6 - 285.8 °F<br>Information refers to the solvent. |
| **Melting / Freezing Point** | No data available |
| **Water solubility** | miscible |
| **Minimum Ignition Energy** | Not applicable |
| **Decomposition temperature** | Stable under normal conditions. |
| **Self-accelarating decomposition temperature (SADT)** | No data available |
| **Partition coefficient: n-octanol/water** | Not applicable |
| **Flammability** | No data available |
| **Flash point** | 29 °C |
| **Auto-ignition temperature** | > 480 °C / 896 °F<br>The data refer to the solvent. |
| **Lower explosion limit** | 1.1 %(V)<br>The data refer to the solvent. |

| | |
|---|---|
| **Upper explosion limit** | 6.6 %(V)<br>The data refer to the solvent. |
| **Explosivity** | Not applicable |
| **Particle size** | No data available |
| **Other information** | Further safety related physical-chemical data are not known. |

## SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity** | |
| **Thermal decomposition** | Stable under normal conditions. |
| **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.<br>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. |
| **Skin** | May be harmful if absorbed through skin. |
| **Ingestion** | May be harmful if swallowed. |
| **Inhalation** | May be harmful if inhaled. |
| **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<br>Exposure time: 4 h<br>Determined in the form of liquid aerosol. |
| **Acute dermal toxicity** | LD50 (Rat) > 4,000 mg/kg |
| **Skin corrosion/irritation** | slight irritation (Rabbit) |
| **Serious eye damage/eye** | Severe eye irritation. (Rabbit) |

**irritation**

**Respiratory or skin sensitisation** Skin: Non-sensitizing. (Guinea pig)

**Assessment STOT Specific target organ toxicity – single exposure**

Ethofumesate: Based on available data, the classification criteria are not met.
Xylene: May cause respiratory irritation.
Cyclohexanone: Based on available data, the classification criteria are not met.

**Assessment STOT Specific target organ toxicity – repeated exposure**

Ethofumesate did not cause specific target organ toxicity in experimental animal studies.
Xylene : May cause damage to organs through prolonged or repeated exposure.
Cyclohexanone did not cause specific target organ toxicity in experimental animal studies.

**Assessment mutagenicity**

Ethofumesate was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Xylene was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Cyclohexanone was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

**Assessment carcinogenicity**

Ethofumesate was not carcinogenic in lifetime feeding studies in rats and mice.
Xylene was not carcinogenic in lifetime feeding studies in rats and mice.
Cyclohexanone is not considered carcinogenic.

**ACGIH**

| | | |
|---|---|---|
| Cyclohexanone | 108-94-1 | Group A3 |
| Xylene | 1330-20-7 | Group A4 |
| Solvent Naphtha (petroleum), heavy aromatic,<1% Naphthalene | 64742-94-5 | Group A3 |
| Ethylbenzene | 100-41-4 | Group A3 |
| Naphthalene | 91-20-3 | Group A3 |
| Toluene | 108-88-3 | Group A4 |

**NTP**

| | |
|---|---|
| Naphthalene | 91-20-3 |

**IARC**

| | | |
|---|---|---|
| Cyclohexanone | 108-94-1 | Overall evaluation: 3 |
| Xylene | 1330-20-7 | Overall evaluation: 3 |
| Ethylbenzene | 100-41-4 | Overall evaluation: 2B |
| Naphthalene | 91-20-3 | Overall evaluation: 2B |
| Toluene | 108-88-3 | Overall evaluation: 3 |

**OSHA**

None.

**Assessment toxicity to reproduction**

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

Cyclohexanone 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.
Xylene caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Xylene are related to maternal toxicity.
Cyclohexanone did not cause developmental toxicity in rats and rabbits.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**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<br>Exposure time: 96 h |
| **Toxicity to aquatic invertebrates** | EC50 (Daphnia magna (Water flea)) 93.2 mg/l<br>Exposure time: 48 h |
| **Toxicity to aquatic plants** | IC50 (Desmodesmus subspicatus (green algae)) 3.9 mg/l<br>Exposure time: 72 h<br>The value mentioned relates to the active ingredient ethofumesate.<br><br>EC50 (Lemna minor (common duckweed)) 50.4 mg/l<br>Biomass; Exposure time: 336 h<br>The value mentioned relates to the active ingredient ethofumesate.<br><br>EC50 (Lemna minor (common duckweed)) > 52.8 mg/l<br>Growth rate; Exposure time: 336 h<br>The value mentioned relates to the active ingredient ethofumesate. |
| **Biodegradability** | Ethofumesate:<br>Not rapidly biodegradable |
| **Koc** | Ethofumesate: Koc: 147 |
| **Bioaccumulation** | Ethofumesate: Bioconcentration factor (BCF) 144<br>Does not bioaccumulate. |
| **Mobility in soil** | Ethofumesate: Moderately mobile in soils |
| **Additional ecological information** | No other effects to be mentioned. |
| **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.<br>Do not apply when weather conditions favor runoff or drift.<br>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.<br>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** | Consult state and local regulations regarding the proper disposal of container.<br>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.<br>(XYLENE, CYCLOHEXANONE) |
| RQ | Reportable Quantity is reached with 165 lb of product. |

**IMDG**

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

**IATA**

| | |
|---|---|
| UN number | **1993** |
| Class | 3 |
| Packaging group | III |
| Environm. Hazardous Mark | NO |
| Proper shipping name | FLAMMABLE LIQUID, N.O.S.<br>(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**

| | |
|---|---|
| xylene | 1330-20-7 |
| Cyclohexanone | 108-94-1 |
| Ethylbenzene | 100-41-4 |
| Branched calcium dodecyl benzene sulfonate | 68953-96-8 |
| Solvent Naphtha (petroleum), heavy aromatic | 64742-94-5 |

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

No export notification needs to be made.

**SARA Title III - Section 302 - Notification and Information**

Not applicable.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

Yes
Yes

**US States Regulatory Reporting**

**CA Prop65**

WARNING: This product contains a chemical known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

| | |
|---|---|
| Ethylbenzene | 100-41-4 |
| Naphthalene | 91-20-3 |

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

| | | |
|---|---|---|
| Toluene | 108-88-3 | Developmental toxin. |

**US State Right-To-Know Ingredients**

| | | |
|---|---|---|
| xylene | 1330-20-7 | CA, CT, IL, MI, MN, NJ, RI |
| Cyclohexanone | 108-94-1 | CA, CT, IL, MN, NJ, RI |
| Ethylbenzene | 100-41-4 | CA, CT, IL, MN, NJ, RI |
| Solvent Naphtha (petroleum), heavy aromatic | 64742-94-5 | CT, NJ, RI |

None.

**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, on skin, or on clothing.

## SECTION 16: OTHER INFORMATION

**Abbreviations and acronyms**

| | |
|---|---|
| 49CFR | Code of Federal Regulations, Title 49 |
| ACGIH | US. ACGIH Threshold Limit Values |
| ATE | Acute toxicity estimate |
| CAS-Nr. | Chemical Abstracts Service number |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| EINECS | European inventory of existing commercial substances |
| ELINCS | European list of notified chemical substances |
| IARC | International Agency for Research on Cancer |
| 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 |
| 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:** The following sections have been revised: Section 2: Hazards Identification. Reviewed and updated for general editorial purposes.

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