

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

SECTION 1. IDENTIFICATION

Product name : PROGRASS HERBICIDE
Product code : UVP: 86808307 Specification: 102000053434 EPA Registration No: 101563-20

Manufacturer or supplier's details

Company name of supplier : Environmental Science U.S. LLC.
Address : 5000 Centregreen Way, Suite 400
Cary NC 27513
Telephone : 1-800-331-2867
Emergency telephone : +1 703-741-5970
E-mail address : uscontact@envu.com

Recommended use of the chemical and restrictions on use

Recommended use : Herbicide
Restrictions on use : See product label for restrictions., For professional users only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Flammable liquids : Category 3
Serious eye damage : Category 1
Carcinogenicity : Category 2
Specific target organ toxicity - single exposure : Category 3
Aspiration hazard : Category 1

Other hazards

Vapors may form explosive mixture with air.
Repeated exposure may cause skin dryness or cracking.

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

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Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Supplemental Hazard Statements : Corrosive to the respiratory tract.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, sparks, open flame and hot surfaces. No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical, ventilating and lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing mist or vapors.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, eye protection and face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

P305 + P351 + P338 + P310 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.

P308 + P313 IF exposed or concerned: Get medical attention.

P331 Do NOT induce vomiting.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Emulsifiable concentrate (EC)

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Hydrocarbons, C9, aromat-	64742-95-6*	>= 55 - < 60	-

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PROGRASS HERBICIDE

Version 4.1 Revision Date: 04/08/2026 SDS Number: 11290833-00007 Date of last issue: 01/20/2026
Date of first issue: 11/02/2023

ics			
Ethofumesate	26225-79-6*	19.0023	-
Cyclohexanone	108-94-1*	$\geq 15 - < 20$	-
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	68953-96-8*	$\geq 1 - < 3$	-
Solvent naphtha (petroleum), heavy aromatic	64742-94-5*	$\geq 1 - < 3$	-
Naphthalene	91-20-3*	$\geq 0.1 - < 0.3$	-

* Indicates that the identifier is a CAS No.

SECTION 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.
Remove contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.
If vomiting occurs have person lean forward.
Call a physician or poison control center immediately.
Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : No symptoms known or expected.
May be fatal if swallowed and enters airways.
Causes serious eye damage.
May cause drowsiness or dizziness.
Suspected of causing cancer.
Corrosive to the respiratory tract.
Prolonged or repeated contact may dry skin and cause irritation.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- Notes to physician : There is no specific antidote available.
Treat symptomatically.
In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours.
However, the application of activated charcoal and sodium sulphate is always advisable.

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PROGRASS HERBICIDE

Version 4.1	Revision Date: 04/08/2026	SDS Number: 11290833-00007	Date of last issue: 01/20/2026 Date of first issue: 11/02/2023
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Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5. FIRE-FIGHTING MEASURES

- | | |
|--|---|
| Suitable extinguishing media | : Water spray
Alcohol-resistant foam
Carbon dioxide (CO ₂)
Dry chemical |
| Unsuitable extinguishing media | : High volume water jet |
| Specific hazards during fire fighting | : Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance.
Vapors may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health. |
| Hazardous combustion products | : Carbon oxides
Sulfur oxides
Metal oxides |
| Specific extinguishing methods | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area. |
| Special protective equipment for fire-fighters | : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Remove all sources of ignition.
Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8). |
| Environmental precautions | : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g., by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up | : Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapors/mists with a water spray jet. |

SAFETY DATA SHEET

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PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

- | | | |
|-----------------------------|---|--|
| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation | : | If sufficient ventilation is unavailable, use with local exhaust ventilation.
Use explosion-proof electrical, ventilating and lighting equipment. |
| Advice on safe handling | : | Do not get on skin or clothing.
Avoid breathing mist or vapors.
Do not swallow.
Do not get in eyes.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Non-sparking tools should be used.
Keep container tightly closed.
Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | : | Keep in properly labeled containers.
Store locked up.
Keep tightly closed.
Keep in a cool, well-ventilated place.
Store in accordance with the particular national regulations.
Keep away from heat and sources of ignition. |
| Materials to avoid | : | Do not store with the following product types:
Strong oxidizing agents
Self-reactive substances and mixtures
Organic peroxides
Flammable solids
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures which in contact with water emit |

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according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version 4.1 Revision Date: 04/08/2026 SDS Number: 11290833-00007 Date of last issue: 01/20/2026
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flammable gases
Explosives
Gases
Very acutely toxic substances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hydrocarbons, C9, aromatics	64742-95-6	TWA	500 ppm 2,000 mg/m ³	OSHA Z-1
Cyclohexanone	108-94-1	TWA	20 ppm	ACGIH
		STEL	50 ppm	ACGIH
		TWA	25 ppm 100 mg/m ³	NIOSH REL
		TWA	50 ppm 200 mg/m ³	OSHA Z-1
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH
		TWA (Mist)	5 mg/m ³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
Naphthalene	91-20-3	TWA	10 ppm	ACGIH
		TWA	10 ppm 50 mg/m ³	NIOSH REL
		ST	15 ppm 75 mg/m ³	NIOSH REL
		TWA	10 ppm 50 mg/m ³	OSHA Z-1

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Cyclohexanone	108-94-1	1,2-Cyclohexanediol	Urine	End of shift at end of work-week	80 mg/l	ACGIH BEI
		Cyclohexanol	Urine	End of shift (As soon as possible after exposure ceases)	8 mg/l	ACGIH BEI

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Engineering measures : Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.
Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection
Material : Nitrile rubber

Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the product. Change gloves often!

Eye protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Color : yellow, brown

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Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Odor	:	aromatic
Odor Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	112.1 °F / 44.5 °C
		Method: ASTM D 93
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	0.95 g/cm ³ (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Minimum ignition energy	:	Not applicable

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PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Particle characteristics
Particle size : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 3,713 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 73.33 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Components:

Hydrocarbons, C9, aromatics:

Acute oral toxicity	:	LD50 (Rat, female): 3,492 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 6.193 mg/l Exposure time: 4 h Test atmosphere: vapor Assessment: The substance or mixture has no acute inhalation toxicity

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Ethofumesate:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.385 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Cyclohexanone:

Acute oral toxicity : LD50 (Rat): 1,620 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Expert judgment

Assessment: Not corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): > 1,000 - 2,000 mg/kg

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 1,000 - 2,000 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials

Solvent naphtha (petroleum), heavy aromatic:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Naphthalene:

Acute oral toxicity : LD50 (Mouse): 553 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 0.4 mg/l

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,500 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit
Result : No skin irritation

Components:

Hydrocarbons, C9, aromatics:

Assessment : Repeated exposure may cause skin dryness or cracking.

Cyclohexanone:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species : Rabbit
Result : Skin irritation

Solvent naphtha (petroleum), heavy aromatic:

Species : Rabbit
Result : Skin irritation
Remarks : Based on data from similar materials

Naphthalene:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Hydrocarbons, C9, aromatics:

Species : Rabbit
Result : No eye irritation

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Cyclohexanone:

Species	:	Rabbit
Result	:	Irreversible effects on the eye

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species	:	Rabbit
Result	:	Irreversible effects on the eye

Solvent naphtha (petroleum), heavy aromatic:

Result	:	Irritation to eyes, reversing within 21 days
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Naphthalene:

Species	:	Guinea pig
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

Hydrocarbons, C9, aromatics:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

Cyclohexanone:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative
Remarks	:	Based on data from similar materials

Solvent naphtha (petroleum), heavy aromatic:

Test Type	:	Buehler Test
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SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Routes of exposure : Skin contact
Species : Guinea pig
Result : negative
Remarks : Based on data from similar materials

Naphthalene:

Test Type : Maximization Test
Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Hydrocarbons, C9, aromatics:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Rat
Application Route: inhalation (vapor)
Result: negative

Ethofumesate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Result: negative

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)
Result: negative

Cyclohexanone:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Rat
Application Route: inhalation (vapor)
Result: negative

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Solvent naphtha (petroleum), heavy aromatic:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Rat
Application Route: Intraperitoneal injection
Result: negative
Remarks: Based on data from similar materials

Naphthalene:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: Chromosome aberration test in vitro
Result: positive

Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo
Species: Rat
Application Route: Ingestion
Result: negative

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Carcinogenicity

Suspected of causing cancer.

Components:

Ethofumesate:

Species	:	Dog
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative

Cyclohexanone:

Species	:	Mouse
Application Route	:	Ingestion
Exposure time	:	104 weeks
Result	:	negative

Solvent naphtha (petroleum), heavy aromatic:

Carcinogenicity - Assessment	:	Limited evidence of carcinogenicity in animal studies
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Naphthalene:

Species	:	Rat
Application Route	:	inhalation (vapor)
Exposure time	:	105 weeks
Result	:	positive

Carcinogenicity - Assessment	:	Limited evidence of carcinogenicity in animal studies
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IARC

Group 2B: Possibly carcinogenic to humans

Naphthalene	91-20-3
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OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Reasonably anticipated to be a human carcinogen

Naphthalene	91-20-3
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Reproductive toxicity

Not classified based on available information.

Components:

Hydrocarbons, C9, aromatics:

Effects on fertility	:	Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapor) Result: negative
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Effects on fetal development	:	Test Type: Embryo-fetal development Species: Mouse
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SAFETY DATA SHEET

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PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Application Route: inhalation (vapor)
Result: negative

Ethofumesate:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat
Application Route: Ingestion
Result: negative

Effects on fetal development : Test Type: Fertility/early embryonic development
Species: Rabbit
Application Route: Ingestion
Result: negative

Cyclohexanone:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapor)
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rabbit
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Effects on fertility : Test Type: Three-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Solvent naphtha (petroleum), heavy aromatic:

Effects on fertility : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Remarks: Based on data from similar materials

Test Type: Embryo-fetal development
Species: Rat
Application Route: inhalation (dust/mist/fume)
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

Naphthalene:

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rabbit
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

STOT-single exposure

May cause drowsiness or dizziness.
Corrosive to the respiratory tract.

Components:

Hydrocarbons, C9, aromatics:

Assessment : May cause drowsiness or dizziness.
Assessment : May cause respiratory irritation.

Cyclohexanone:

Assessment : May cause respiratory irritation.

Solvent naphtha (petroleum), heavy aromatic:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Components:

Naphthalene:

Routes of exposure : inhalation (vapor)
Assessment : No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Repeated dose toxicity

Components:

Hydrocarbons, C9, aromatics:

Species : Rat, female
NOAEL : 900 mg/m³
Application Route : inhalation (vapor)

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Exposure time : 12 Months
Remarks : Based on data from similar materials

Ethofumesate:

Species : Rat
NOAEL : 190 mg/kg
Application Route : Ingestion
Exposure time : 90 Days

Species : Rabbit
NOAEL : 1,000 mg/kg
Application Route : Skin contact
Exposure time : 28 Days

Cyclohexanone:

Species : Rat
NOAEL : 143 mg/kg
Application Route : Ingestion
Exposure time : 90 Days
Method : OECD Test Guideline 408

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species : Rat
LOAEL : > 100 mg/kg
Application Route : Ingestion
Exposure time : 9 Months
Remarks : Based on data from similar materials

Solvent naphtha (petroleum), heavy aromatic:

Species : Rat
NOAEL : 300 mg/kg
LOAEL : 600 mg/kg
Application Route : Ingestion
Exposure time : 90 Days

Species : Rat
NOAEL : > 200 mg/kg
Application Route : Skin contact
Exposure time : 90 Days
Remarks : Based on data from similar materials

Naphthalene:

Species : Mouse
NOAEL : 133 mg/kg
Application Route : Ingestion
Exposure time : 90 Days
Method : OECD Test Guideline 408

Species : Rat

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

NOAEL	: 0.011 mg/l
Application Route	: inhalation (vapor)
Exposure time	: 13 Weeks
Method	: OECD Test Guideline 413

Species	: Rat
NOAEL	: 300 mg/kg
Application Route	: Skin contact
Exposure time	: 13 Weeks
Method	: OECD Test Guideline 411

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Hydrocarbons, C9, aromatics:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Cyclohexanone:

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

Solvent naphtha (petroleum), heavy aromatic:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Hydrocarbons, C9, aromatics:

Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): 9.2 mg/l
	Exposure time: 96 h
	Test substance: Water Accommodated Fraction
	Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): 3.2 mg/l
	Exposure time: 48 h
	Test substance: Water Accommodated Fraction
	Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants	: EL50 (Pseudokirchneriella subcapitata (green algae)): 7.9 mg/l
	Exposure time: 72 h
	Test substance: Water Accommodated Fraction
	Method: OECD Test Guideline 201

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

NOELR (Pseudokirchneriella subcapitata (green algae)): 0.22 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50: > 99 mg/l
Exposure time: 10 min

Ethofumesate:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 10.92 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Crassostrea virginica (eastern oyster)): 1.7 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : ErC50: 0.479 mg/l
Exposure time: 14 d
Method: OECD Test Guideline 221

NOEC: 0.036 mg/l
Exposure time: 14 d
Method: OECD Test Guideline 221

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 0.156 mg/l
Exposure time: 70 d
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.25 mg/l
Exposure time: 21 d

Cyclohexanone:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 527 - 732 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 800 mg/l
Exposure time: 24 h

Toxicity to algae/aquatic plants : EbC50 (Chlamydomonas reinhardtii (green algae)): 32.9 mg/l
Exposure time: 72 h

EC10 (Chlamydomonas reinhardtii (green algae)): 3.56 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC50: > 1,000 mg/l
Exposure time: 30 min
Method: OECD Test Guideline 209

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1 - 10 mg/l

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 10 mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials

NOEC (Raphidocelis subcapitata (freshwater green alga)): > 1 mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 0.1 - 1 mg/l
Exposure time: 72 d
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 1 mg/l
Exposure time: 21 d
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Solvent naphtha (petroleum), heavy aromatic:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 0.84 mg/l
Exposure time: 96 h
Test substance: Water Accommodated Fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 0.55 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 0.42 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction

NOEL (Pseudokirchneriella subcapitata (green algae)): 0.07 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction

Naphthalene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 6.08 mg/l
Exposure time: 96 h

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2.16 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Skeletonema costatum (marine diatom)): 0.4 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	:	NOEC (Oncorhynchus kisutch (coho salmon)): 0.37 mg/l Exposure time: 40 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia pulex (Water flea)): 0.59 mg/l Exposure time: 125 d
Toxicity to microorganisms	:	IC50 (Nitrosomonas sp.): 29 mg/l Exposure time: 24 h

Persistence and degradability

Components:

Hydrocarbons, C9, aromatics:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 78 % Exposure time: 28 d Method: OECD Test Guideline 301F
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Ethofumesate:

Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 14 % Exposure time: 28 d Method: OECD Test Guideline 301D
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Cyclohexanone:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 90 - 100 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: The test was conducted according to guideline
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Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Biodegradability	:	Result: Not readily biodegradable. Method: OECD Test Guideline 301E Remarks: Based on data from similar materials
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Solvent naphtha (petroleum), heavy aromatic:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 61 % Exposure time: 28 d Method: OECD Test Guideline 301F
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SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Naphthalene:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 2 %
Exposure time: 4 Weeks
Method: OECD Test Guideline 302

Bioaccumulative potential

Components:

Hydrocarbons, C9, aromatics:

Partition coefficient: n-octanol/water : log Pow: 3.7 - 4.5

Ethofumesate:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 144

Partition coefficient: n-octanol/water : log Pow: 2.7
Method: OECD Test Guideline 117

Cyclohexanone:

Partition coefficient: n-octanol/water : log Pow: 0.86

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Partition coefficient: n-octanol/water : log Pow: 4.595
Method: Regulation (EC) No. 440/2008, Annex, A.8

Solvent naphtha (petroleum), heavy aromatic:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 61 - 159

Naphthalene:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 36.5 - 168
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 3.4

Mobility in soil

No data available

Other adverse effects

No data available

Endocrine disrupting properties

No data available

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Do not dispose of waste into sewer.
Contaminated packaging	:	Follow advice on product label and/or leaflet. Empty containers retain residue and can be dangerous. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9, aromatics, Cyclohexanone)
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	yes

IATA-DGR

UN/ID No.	:	UN 1993
Proper shipping name	:	Flammable liquid, n.o.s. (Hydrocarbons, C9, aromatics, Cyclohexanone)
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9, aromatics, Cyclohexanone, Ethofumesate)
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, <u>S-E</u>
Marine pollutant	:	yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	:	UN 1993
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SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version 4.1 Revision Date: 04/08/2026 SDS Number: 11290833-00007 Date of last issue: 01/20/2026
Date of first issue: 11/02/2023

Proper shipping name : Flammable liquids, n.o.s.
(Hydrocarbons, C9, aromatics, Cyclohexanone)
Class : 3
Packing group : III
Labels : FLAMMABLE LIQUID
ERG Code : 128
Marine pollutant : yes(Ethofumesate, Hydrocarbons, C9, aromatics)
Remarks : THE COMBUSTIBLE LIQUID EXCEPTION MAY BE USED
FOR PACKAGES <119 GAL.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Cyclohexanone	108-94-1	5000	33333
Naphthalene	91-20-3	100	68965

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Carcinogenicity
Aspiration hazard
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Naphthalene 91-20-3 >= 0.1 - < 0.3 %

US State Regulations

Pennsylvania Right To Know

Hydrocarbons, C9, aromatics	64742-95-6
Ethofumesate	26225-79-6
Cyclohexanone	108-94-1
Solvent naphtha (petroleum), heavy aromatic	64742-94-5
Naphthalene	91-20-3
1,2,4-Trimethylbenzene	95-63-6

California Prop. 65

WARNING: This product can expose you to chemicals including

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

Naphthalene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

Cyclohexanone	108-94-1
Solvent naphtha (petroleum), heavy aromatic	64742-94-5

California Permissible Exposure Limits for Chemical Contaminants

Cyclohexanone	108-94-1
Solvent naphtha (petroleum), heavy aromatic	64742-94-5
Active substance	: 180 g/l
Ethofumesate	

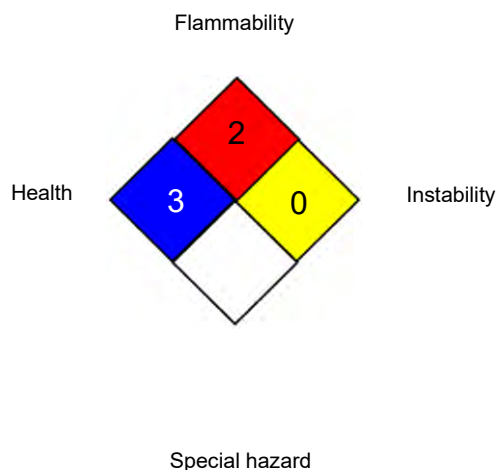
The ingredients of this product are reported in the following inventories:

US TSCA : Product not subject to TSCA

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV / CED:

HEALTH	*	3
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

OSHA Z-1 / TWA : at any time during a workday
: 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 04/08/2026

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



PROGRASS HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 01/20/2026
4.1	04/08/2026	11290833-00007	Date of first issue: 11/02/2023

US / Z8