

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Hazard pictograms



Signal Word

: Warning

Hazard Statements

: H227 Combustible liquid.
H332 Harmful if inhaled.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

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 flames/ hot surfaces. No smoking.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sulfentrazone	122836-35-5	>= 20 - < 30
glycerol	56-81-5	>= 5 - < 10

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Solvent naphtha (petroleum), heavy arom.	64742-94-5	>= 1 - < 5
carfentrazone-ethyl (ISO)	128639-02-1	>= 1 - < 5
2-methylnaphthalene	91-57-6	>= 1 - < 5
toluene	108-88-3	>= 1 - < 5
propane-1,2-diol	57-55-6	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Harmful if inhaled.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

- Hazardous combustion products : Thermal decomposition can lead to release of irritating gases and vapors.
Carbon oxides
Nitrogen oxides (NOx)
Chlorine compounds
Fluorine compounds
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
 Date of first issue: 05/20/2021

Conditions for safe storage : No smoking.
 Keep in a well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Do not store near acids.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (mist, total dust)	15 mg/m ³	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m ³	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m ³	OSHA P0
Solvent naphtha (petroleum), heavy arom.	64742-94-5	TWA	200 mg/m ³ (total hydrocarbon vapor)	ACGIH
carfentrazone-ethyl (ISO)	128639-02-1	TWA (Inhalable particulate matter)	1 mg/m ³	ACGIH
2-methylnaphthalene	91-57-6	TWA	0.5 ppm	ACGIH
toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m ³	NIOSH REL
		ST	150 ppm 560 mg/m ³	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm (10 minutes)	OSHA Z-2
		TWA	100 ppm 375 mg/m ³	OSHA P0
		STEL	150 ppm 560 mg/m ³	OSHA P0
propane-1,2-diol	57-55-6	TWA	10 mg/m ³	US WEEL

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentra-tion	Basis
toluene	108-88-3	Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEI

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : viscous liquid
- Color : off-white to white, yellow-orange
- Odor : solvent-like
- pH : 4.4

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Melting point/freezing point : 253 °F / 123 °C
Flash point : > 196 °F / 91 °C
Method: closed cup
Density : 9.99 lb/gal
Solubility(ies)
Water solubility : dispersible

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
No decomposition if stored and applied as directed.
Chemical stability : No decomposition if stored and applied as directed.
No decomposition if stored and applied as directed.
Possibility of hazardous reactions : Vapors may form explosive mixture with air.
No decomposition if stored and applied as directed.
No decomposition if stored and applied as directed.
Vapors may form explosive mixture with air.
Conditions to avoid : Heat, flames and sparks.
Heat, flames and sparks.
Incompatible materials : No data available
Not applicable

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if inhaled.

Product:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 2.27 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity : LD50 Dermal (Rat): > 5,050 mg/kg

Skin corrosion/irritation

Not classified based on available information.

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Product:

Species : Rabbit
Result : slight irritation

Remarks : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species : Rabbit
Result : slight irritation
Remarks : Vapors may cause irritation to the eyes, respiratory system and the skin.

Remarks : Vapors may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Result : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified based on available information.

Components:

Sulfentrazone:

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

glycerol:

Genotoxicity in vitro : Test Type: reverse mutation assay
Result: negative

Solvent naphtha (petroleum), heavy arom.:

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

Genotoxicity in vivo : Test Type: Cytogenetic assay

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Species: Rat
Application Route: Intraperitoneal injection
Result: negative
Remarks: Based on data from similar materials

carfentrazone-ethyl (ISO):

Genotoxicity in vitro : Result: negative

Genotoxicity in vivo : Result: negative

2-methylnaphthalene:

Genotoxicity in vitro : Test Type: sister chromatid exchange assay
Test system: Human lymphocytes
Result: negative

Test Type: Ames test
Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

toluene:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro
Species: Rat
Result: negative

propane-1,2-diol:

Genotoxicity in vitro : Test Type: reverse mutation assay
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Result: negative

Carcinogenicity

Suspected of causing cancer.

Components:

Sulfentrazone:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

glycerol:

Species : Rat

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Application Route : Oral
Exposure time : 2 years Years
Result : negative

Solvent naphtha (petroleum), heavy arom.:

Species : Mouse
Application Route : Dermal
Exposure time : 104 weeks
Result : negative
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

carfentrazone-ethyl (ISO):

Result : negative

2-methylnaphthalene:

Species : Mouse, male
Application Route : Oral
Exposure time : 81 w
Dose : 750, 1500 ppm
LOAEL : 750 ppm
Result : equivocal
Symptoms : Tumor
Target Organs : Lungs
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

propane-1,2-diol:

Species : Rat
Application Route : Oral
Exposure time : 2 Years
Result : negative

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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 No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Components:

Sulfentrazone:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

glycerol:

Effects on fertility : Test Type: Two-generation study
Species: Rat
Application Route: Oral
Result: negative

Effects on fetal development : Test Type: Two-generation study
Species: Rat
Application Route: Oral
Result: negative

Solvent naphtha (petroleum), heavy arom.:

Effects on fertility : Test Type: Fertility
Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 415
Result: negative
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

toluene:

Effects on fetal development : Species: Rat
Application Route: Inhalation
Result: Teratogenic effects.
Remarks: Adverse developmental effects were observed

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

propane-1,2-diol:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Mouse
Application Route: Oral
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 414
Result: Animal testing did not show any effects on fertility.

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Remarks: Based on data from similar materials

STOT-single exposure

Not classified based on available information.

Components:

Sulfentrazone:

Remarks : No data available

Solvent naphtha (petroleum), heavy arom.:

Assessment : May cause drowsiness or dizziness.

2-methylnaphthalene:

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

toluene:

Assessment : May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Sulfentrazone:

Target Organs : hematopoietic system
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

toluene:

Routes of exposure : Inhalation
Target Organs : inner ear
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity

Components:

glycerol:

Species : Rat
LOAEL : 1 mg/kg
Application Route : Inhalation
Exposure time : 14 d
Dose : 0, 1, 1.93, 3.91 mg/L
Symptoms : respiratory tract irritation, Fatality

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Species : Rat
NOAEL : 0.165 mg/l
LOAEL : 0.662 mg/l
Application Route : Inhalation
Exposure time : 13 w
Dose : 0, 0.033, 0.165, 0.662 mg/L
Symptoms : respiratory tract irritation

Solvent naphtha (petroleum), heavy arom.:

Species : Rat, male and female
NOAEL : 300 mg/kg
Application Route : Oral - gavage
Exposure time : 90 day
Remarks : Based on data from similar materials

Species : Rat, male and female
NOAEL : 0.8 - 0.9 mg/l
Application Route : inhalation (vapor)
Exposure time : 12 months
Symptoms : Reduced body weight

2-methylnaphthalene:

Species : Mouse, female
LOAEL : 50.3 mg/kg
Application Route : Oral
Exposure time : 81 w
Dose : 0, 50.3, 107.6 mg/kg-d
Symptoms : pulmonary effects, immune system effects

Species : Mouse
Application Route : Dermal
Exposure time : 30 w
Number of exposures : 2/w
Dose : 119 mg/kg-application
Symptoms : pulmonary effects
Remarks : Based on data from similar materials

toluene:

Species : Rat
NOAEL :
NOAEL : 625 mg/kg
Application Route : Oral
Symptoms : central nervous system effects

Species : Rat
NOAEL :
NOAEL : 0.098 mg/l
Application Route : Inhalation
Test atmosphere : vapor

Species : Rat
NOAEL :
LOAEL : 2.261 mg/l

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Application Route : Inhalation
Test atmosphere : vapor

propane-1,2-diol:

Species : Rat, male and female
NOAEL : 1,700 mg/kg
Application Route : Oral
Exposure time : 2 Years

Species : Rat, male and female
NOAEL : 1,000 mg/kg
LOAEL : 160 mg/kg
Application Route : Inhalation
Exposure time : 90 Days

Aspiration toxicity

Not classified based on available information.

Components:

Sulfentrazone:

No data available

Solvent naphtha (petroleum), heavy arom.:

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.

toluene:

May be fatal if swallowed and enters airways.

Experience with human exposure

Components:

2-methylnaphthalene:

Skin contact : Target Organs: Skin
Symptoms: Irritation

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

Persistence and degradability

Components:

Sulfentrazone:

Biodegradability : Result: Not readily biodegradable.

glycerol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 24 h

Solvent naphtha (petroleum), heavy arom.:

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 58.6 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

carfentrazone-ethyl (ISO):

Biodegradability : Result: Not readily biodegradable.

toluene:

Biodegradability : Result: Readily biodegradable.

propane-1,2-diol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 23.6 %
Exposure time: 64 d
Method: OECD Test Guideline 306

Bioaccumulative potential

Components:

Sulfentrazone:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: No data available

Solvent naphtha (petroleum), heavy arom.:

Partition coefficient: n-octanol/water : log Pow: 2.4 - 6.5

2-methylnaphthalene:

Partition coefficient: n-octanol/water : log Pow: 3.86

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

toluene:

Bioaccumulation : Bioconcentration factor (BCF): 90

Partition coefficient: n-octanol/water : log Pow: 2.73 (68 °F / 20 °C)

propane-1,2-diol:

Partition coefficient: n-octanol/water : log Pow: -1.07

Mobility in soil

Components:

Sulfentrazone:

Distribution among environmental compartments : Remarks: Mobile in soils

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulations

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

UNRTDG

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Sulfentrazone, Carfentrazone-ethyl)
Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Sulfentrazone, Carfentrazone-ethyl)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Sulfentrazone, Carfentrazone-ethyl)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

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

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
toluene	108-88-3	100	100 (F005)
ethylbenzene	100-41-4	100	100 (F003)

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

toluene	108-88-3	1000	*
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*: Calculated RQ exceeds reasonably attainable upper limit.

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 : No SARA Hazards

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

toluene 108-88-3 >= 1 - < 5 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

toluene 108-88-3 >= 1 - < 5 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

glycerol 56-81-5 >= 5 - < 10 %
2-methylnaphthalene 91-57-6 >= 1 - < 5 %
toluene 108-88-3 >= 1 - < 5 %
propane-1,2-diol 57-55-6 >= 1 - < 5 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

toluene 108-88-3 >= 1 - < 5 %
naphthalene 91-20-3 >= 0 - < 0.1 %
ethylbenzene 100-41-4 >= 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

toluene 108-88-3 >= 1 - < 5 %
naphthalene 91-20-3 >= 0 - < 0.1 %
ethylbenzene 100-41-4 >= 0 - < 0.1 %

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

toluene 108-88-3 >= 1 - < 5 %

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

glycerol 56-81-5
toluene 108-88-3

Pennsylvania Right To Know

water 7732-18-5
Sulfentrazone 122836-35-5

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

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carfentrazone-ethyl (ISO)	128639-02-1
toluene	108-88-3
propane-1,2-diol	57-55-6
naphthalene	91-20-3

Maine Chemicals of High Concern

toluene	108-88-3
octamethylcyclotetrasiloxane	556-67-2

Vermont Chemicals of High Concern

toluene	108-88-3
ethylbenzene	100-41-4
octamethylcyclotetrasiloxane	556-67-2

Washington Chemicals of High Concern

toluene	108-88-3
ethylbenzene	100-41-4

California Prop. 65

WARNING: This product can expose you to chemicals including naphthalene, ethylbenzene, which is/are known to the State of California to cause cancer, and toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

toluene	108-88-3
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California Permissible Exposure Limits for Chemical Contaminants

glycerol	56-81-5
toluene	108-88-3

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

TCSI	: Not in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AICS	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL. SFZ TECHNICAL CFZ 230 G/L EW Smectite-group minerals
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version 1.0 Revision Date: 05/20/2021 SDS Number: 50002554 Date of last issue: -
Date of first issue: 05/20/2021

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TSCA list

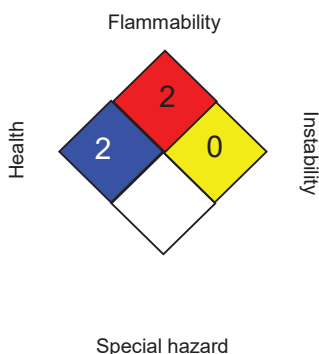
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



0 No health threat, 1 Slightly Hazardous, 2 Hazardous, 3 Extreme danger, 4 Deadly

HMIS® IV:

HEALTH	*	2
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 P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- OSHA Z-2 : USA. Occupational Exposure Limits (OSHA) - Table Z-2
- US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
- ACGIH / TWA : 8-hour, time-weighted average
- 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 at any time during a workday
- OSHA P0 / TWA : 8-hour time weighted average
- OSHA P0 / STEL : Short-term exposure limit
- OSHA Z-1 / TWA : 8-hour time weighted average
- OSHA Z-2 / TWA : 8-hour time weighted average
- OSHA Z-2 / CEIL : Acceptable ceiling concentration

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05/20/2021	50002554	Date of first issue: 05/20/2021

OSHA Z-2 / Peak : Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift
US WEEL / TWA : 8-hr TWA

AICS - Australian Inventory of Chemical Substances; 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 Standardisation; 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 Organisation 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, Authorisation 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; 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

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US / EN

SAFETY DATA SHEET



Portfolio NXT Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
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Prepared by:

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End of Material Safety Data Sheet