

# SAFETY DATA SHEET



## VIOS™ FX HERBICIDE

Version 4.0 / USA  
102000053763

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Revision Date: 12/05/2024  
Print Date: 12/06/2024

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

#### Product identifier

Trade name	VIOS™ FX HERBICIDE
Product code (UVP)	87316076
SDS Number	102000053763
EPA Registration No.	264-1221

#### 1.2 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 CropScience LP 800 North Lindbergh Blvd. St. Louis, MO 63167 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	1-866-99BAYER (1-866-992-2937)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification in accordance with regulation HCS 29CFR §1910.1200

Skin sensitisation: Category 1  
Aspiration hazard: Category 1  
Carcinogenicity: Category 2

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



Signal word: Danger

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### Hazard statements

May be fatal if swallowed and enters airways.  
May cause an allergic skin reaction.  
Suspected of causing cancer.

### Precautionary statements

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
Contaminated work clothing should not be allowed out of the workplace.  
IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.  
IF exposed or concerned: Get medical advice/ attention.  
IF ON SKIN: Wash with plenty of water/ soap.  
Take off immediately all contaminated clothing and wash it before reuse.  
If skin irritation or rash occurs: Get medical advice/ attention.  
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
Fluroxypyr-meptyl	81406-37-3	15.63
Thiencarbazone-methyl	317815-83-1	0.46
Propylene carbonate	108-32-7	15 – 40
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	7 – 13
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	7 – 13
Naphthalene	91-20-3	1 – 5
Calcium dodecylbenzenesulphonate	26264-06-2	1 – 5
2-Ethylhexanol	104-76-7	1 – 5
Stearylamine, ethoxylated	26635-92-7	0.5 – 1.5

The specific chemical identity and/or concentration range is being withheld because it is trade secret information.

## 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.

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<b>Skin contact</b>	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.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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.
<b>Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms</b>	To date no symptoms are known.
<b>Indication of any immediate medical attention and special treatment needed</b>	
<b>Treatment</b>	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** Fight fire from upwind position. Keep out of smoke. Cool closed containers exposed to fire with water spray. Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

### Specific hazards from the substance or mixture which can increase the fire

**Flash point** > 107 °C / > 224.6 °F

**Auto-ignition temperature** 408 °C / 766.4 °F

**Lower explosion limit** No data available

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<b>Upper explosion limit</b>	No data available
<b>Explosivity</b>	Not explosive

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
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### Methods and materials for containment and cleaning up

<b>Methods for cleaning up</b>	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 contaminated floors and objects thoroughly, observing environmental regulations.
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<b>Additional advice</b>	Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.
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<b>Reference to other sections</b>	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.
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## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

<b>Advice on safe handling</b>	Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.
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<b>Hygiene measures</b>	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.
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### Conditions for safe storage, including any incompatibilities

<b>Requirements for storage areas and containers</b>	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. Protect from freezing. Keep away from direct sunlight.
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<b>Advice on common storage</b>	Keep away from food, drink and animal feedingstuffs.
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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Thiocarbazon-methyl	317815-83-1	10 mg/m3 (TWA)		OES BCS*
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1,600 mg/m3/400 ppm (TWA PEL)	09 2006	US CA OEL
Solvent Naphtha (petroleum), heavy aromatic (Non-aerosol.)	64742-94-5	200 mg/m3 (TWA)	03 2014	ACGIH
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	100 mg/m3 (REL)	2010	NIOSH
Solvent Naphtha (petroleum), heavy aromatic (Non-aerosol.)	64742-94-5	200 mg/m3 (TWA)	01 2021	ACGIH
Naphthalene	91-20-3	10 ppm (TWA)	2008	ACGIH
Naphthalene	91-20-3	50 mg/m3/10 ppm (REL)	2005	NIOSH
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	2005	NIOSH
Naphthalene	91-20-3	50 mg/m3/10 ppm (PEL)	02 2006	OSHA Z1
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	75 mg/m3/15 ppm (STEL)	01 2019	TN OEL
Naphthalene	91-20-3	10 ppm (TLV)		OES BCS*
2-Ethylhexanol	104-76-7	5 ppm (TWA)	01 2022	ACGIH

\*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
Naphthalene	91-20-3	1-Naphthol, with hydrolysis + 2-Naphthol, with hydrolysis		Sampling time: End of shift.		ACGIH BEI

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### Exposure controls

#### Personal protective equipment

Formulated product

#### Respiratory protection

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

#### Hand protection

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

#### Eye protection

Tightly fitting safety goggles

#### Skin and body protection

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

#### General protective measures

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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Form	Liquid, clear
Colour	beige to brown
Odour	odourless
Odour Threshold	No data available
pH	6.5 - 8.0 (10 %) (23 °C) (deionized water)
Melting point/ range	No data available
Boiling Point	No data available
Flash point	> 107 °C / > 224.6 °F
Flammability	The product is not flammable.
Auto-ignition temperature	408 °C / 766.4 °F
Thermal decomposition	No data available
Minimum ignition energy	No data available
Self-accelerating decomposition temperature (SADT)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	No data available

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<b>Evaporation rate</b>	No data available
<b>Relative vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Density</b>	ca. 1.08 g/cm <sup>3</sup> (20 °C)
<b>Water solubility</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	Fluroxypyr-meptyl: log Pow: 5.04 Thiencarbazone-methyl: log Pow: -0.13
<b>Viscosity, dynamic</b>	17.23 mPa.s (20 °C) Velocity gradient 20 /s 17.12 mPa.s (20 °C) Velocity gradient 100 /s 8.75 mPa.s (40 °C) Velocity gradient 20 /s 8.74 mPa.s (40 °C) Velocity gradient 100 /s
<b>Viscosity, kinematic</b>	15.92 mm <sup>2</sup> /s (20 °C) Shear rate of 20/sec 15.82 mm <sup>2</sup> /s (20 °C) Shear rate of 100/sec 8.22 mm <sup>2</sup> /s (40 °C) Shear rate of 20/sec 8.20 mm <sup>2</sup> /s (40 °C) Shear rate of 100/sec
<b>Oxidizing properties</b>	No oxidizing properties
<b>Explosivity</b>	Not explosive
<b>Other information</b>	Further safety related physical-chemical data are not known.

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## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.

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<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	No incompatible materials known.
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Ingestion, Eye contact, Skin contact, Inhalation
<b>Immediate Effects</b>	
<b>Eye</b>	May cause temporary eye irritation.
<b>Skin</b>	May be harmful in contact with skin. May cause sensitisation by skin contact.
<b>Ingestion</b>	Not expected to produce significant adverse effects when recommended use instructions are followed.
<b>Inhalation</b>	Not expected to produce significant adverse effects when recommended use instructions are followed.
<b>Information on toxicological effects</b>	
<b>Acute oral toxicity</b>	LD50 (female Rat) > 5,000 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (male/female combined Rat) > 5.1 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. No deaths
<b>Acute dermal toxicity</b>	Dermal toxicity was assessed based on the result of the oral toxicity study. Dermal toxicity study has been waived by competent regulatory authority.
<b>Skin corrosion/irritation</b>	Slight irritant effect - does not require labelling. (Rabbit)
<b>Serious eye damage/eye irritation</b>	Mild eye irritation. (Rabbit)
<b>Respiratory or skin sensitisation</b>	Skin: Sensitising (Mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

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

Fluroxypyr-meptyl: This information is not available.  
Thiencarbazone-methyl: Based on available data, the classification criteria are not met.

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

Fluroxypyr-meptyl did not cause specific target organ toxicity in experimental animal studies.  
Thiencarbazone-methyl did not cause specific target organ toxicity in experimental animal studies.



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### Assessment mutagenicity

Fluroxypyr-meptyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
Thiencarbazone-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Fluroxypyr-meptyl was not carcinogenic in lifetime feeding studies in rats and mice.  
Thiencarbazone-methyl was not carcinogenic in a lifetime feeding study in rats. Thiencarbazone-methyl caused at high dose levels an increased incidence of tumours in mice in the following organ(s): urinary bladder. The tumours seen with Thiencarbazone-methyl were caused through the chronic irritation due to the presence of bladder stones.

### ACGIH

Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	Group A3
Naphthalene	91-20-3	Group A3
2-Ethylhexanol	104-76-7	Group A3

### NTP

Naphthalene	91-20-3
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### IARC

Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	Overall evaluation: 3
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	Overall evaluation: 3
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	Overall evaluation: 3
Naphthalene	91-20-3	Overall evaluation: 2B

### Assessment toxicity to reproduction

Fluroxypyr-meptyl did not cause reproductive toxicity in a two-generation study in rats.  
Thiencarbazone-methyl did not cause reproductive toxicity in a two-generation study in rats.

### Assessment developmental toxicity

Fluroxypyr-meptyl did not cause developmental toxicity in rats and rabbits.  
Thiencarbazone-methyl did not cause developmental toxicity in rats and rabbits.

### Aspiration hazard

May be fatal if swallowed and enters airways.

### Further information

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).  
No further toxicological information is available.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) > 0.225 mg/l  
semi-static test; Exposure time: 96 h  
The value mentioned relates to the active ingredient fluroxypyr-meptyl.  
LC50 (Oncorhynchus mykiss (rainbow trout)) > 104 mg/l  
Exposure time: 96 h

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	<p>The value mentioned relates to the active ingredient thien carbazone-methyl.</p>
<b>Chronic toxicity to fish</b>	<p>Oncorhynchus mykiss (rainbow trout) NOEC: 0.32 mg/l The value mentioned relates to the active ingredient fluroxypyr-meptyl.</p>
<b>Toxicity to aquatic invertebrates</b>	<p>EC50 (Daphnia magna (Water flea)) &gt; 0.183 mg/l semi-static test; Exposure time: 48 h The value mentioned relates to the active ingredient fluroxypyr-meptyl.</p> <p>EC50 (Daphnia magna (Water flea)) &gt; 98.6 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient thien carbazone-methyl.</p>
<b>Toxicity to aquatic plants</b>	<p>ErC50 (Navicula pelliculosa (Freshwater diatom)) 0.24 mg/l static test; Exposure time: 72 h The value mentioned relates to the active ingredient fluroxypyr-meptyl.</p> <p>EbC50 (Scenedesmus quadricauda (Green algae)) &gt; 0.47 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient fluroxypyr-meptyl.</p> <p>ErC50 (Raphidocelis subcapitata (freshwater green alga)) &gt; 1.410 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient fluroxypyr-meptyl.</p> <p>NOEC (Myriophyllum spicatum (Eurasian watermilfoil)) 0.031 mg/l Exposure time: 14 d The value mentioned relates to the active ingredient fluroxypyr-meptyl.</p> <p>IC50 (Raphidocelis subcapitata (freshwater green alga)) 1.017 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient thien carbazone-methyl.</p> <p>IC50 (Lemna gibba (gibbous duckweed)) 0.00131 mg/l Growth rate; Exposure time: 7 d The value mentioned relates to the active ingredient thien carbazone-methyl.</p>
<b>Biodegradability</b>	<p>Fluroxypyr-meptyl: 32 %, Exposure time: 28 d Not rapidly biodegradable Thien carbazone-methyl: Not rapidly biodegradable</p>
<b>Koc</b>	<p>Fluroxypyr-meptyl: Koc: 6200 - 43000 Thien carbazone-methyl: Koc: 100</p>
<b>Bioaccumulation</b>	<p>Fluroxypyr-meptyl: Bioconcentration factor (BCF) 26 Thien carbazone-methyl: Does not bioaccumulate.</p>
<b>Mobility in soil</b>	<p>Fluroxypyr-meptyl: Immobile in soil Thien carbazone-methyl: Moderately mobile in soils</p>

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### Results of PBT and vPvB assessment

<b>PBT and vPvB assessment</b>	Fluroxypyr-meptyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). Thiencarbazone-methyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
<b>Environmental precautions</b>	Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Product</b>	Dispose in accordance with all local, state/provincial and federal regulations.
<b>Contaminated packaging</b>	Consult state and local regulations regarding the proper disposal of container. Follow advice on product label and/or leaflet.
<b>RCRA Information</b>	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	<b>3082</b>
Class	9
Packaging group	III
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CALCIUM DODECYLBENZENE SULFONATE, NAPHTHALENE)
RQ	Reportable Quantity is reached with 14,712 lb of product.

### IMDG

UN number	<b>3082</b>
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUROXYPYR-MEPTYL, THIENCARBAZONE-METHYL SOLUTION)

### IATA

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UN number	<b>3082</b>
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUROXYPYR-MEPTYL, THIENCARBAZONE-METHYL 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.

## SECTION 15: REGULATORY INFORMATION

**EPA Registration No.** 264-1221

### US Federal Regulations

#### TSCA list

Propylene carbonate	108-32-7
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9
Fatty acids, rape-oil, Me esters	85586-25-0
Oxirane, 2-methyl-, polymer with oxirane, mono[2,4,6-tris(1-phenylethyl)phenyl] ether	70880-56-7
Naphthalene	91-20-3
Mefenpyr-diethyl	135590-91-9
Calcium dodecylbenzenesulphonate	26264-06-2
2-Ethylhexanol	104-76-7
Stearylamine, ethoxylated	26635-92-7

### 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

### 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](http://www.P65Warnings.ca.gov).

Naphthalene	91-20-3	Carcinogenic
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This product does not contain any substances known to the State of California to cause reproductive harm.

### US State Right-To-Know Ingredients

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Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	CT, IL, NJ, RI
Naphthalene	91-20-3	CA, CT, IL, MN, NJ, RI
Calcium dodecylbenzenesulphonate	26264-06-2	CA, CT, IL, NJ
2-Ethylhexanol	104-76-7	CT

### Environmental

#### CERCLA

Yes

Solvent Naphtha (petroleum), heavy aromatic 64742-94-5

Yes

Naphthalene 91-20-3

Yes

Calcium dodecylbenzenesulphonate 26264-06-2

#### Clean Water Section 307(a)(1)

Yes

Naphthalene 91-20-3

#### Safe Drinking Water Act Maximum Contaminant Levels

Yes

Naphthalene 91-20-3

### EPA/FIFRA Information:

This chemical is a pesticide product regulated 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:** Caution!

**Hazard statements:** Causes moderate eye irritation.  
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.  
Harmful if absorbed through skin.

## 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

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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 - 2      Flammability - 1      Instability - 0      Others - none

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

Health - 2\*      Flammability - 1      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard,  
\* = chronic health hazard

**Reason for Revision:** The following sections have been revised: Section 2: Hazards Identification.  
Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection.  
Section 12. Ecological information. Reviewed and updated for general editorial purposes.

**Revision Date:** 12/05/2024

Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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