

Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations
Issue date: 7/13/2025 Revision date: 7/13/2025 Version: 1.0

SECTION 1 Identification

1.1. Product identifier

Product name : DETOUR® WIRE PROTECTION GEL
Product code : 10-502359
Vaporizer : Aerosol

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Repellent Product

1.4. Supplier's details

Tomlin Scientific Inc
6780 8th Street
Buena Park, CA 90620
714-523-7971

1.5. Emergency phone number

714-973-7971 Normal Business Hours
USA & Canada Chemtrec 800-424-9300
International Chemtrec 703-527-3887

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Aerosol 1	H222;H229	Extremely flammable aerosol. Pressurized container; may burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Acute 2	H401	Toxic to aquatic life.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H222 - Extremely flammable aerosol
H229 - Pressurized container; may burst if heated
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H401 - Toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS US)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P261 - Avoid breathing dust, fume, gas, mist, vapors, spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves.
P301+P310 - If swallowed: Immediately call a poison center or doctor.
P302+P352 - If on skin: Wash with plenty of water.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a poison center or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P331 - Do NOT induce vomiting.
P332+P313 - If skin irritation occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Heptane, branched, cyclic and linear	CAS-No.: 426260-76-6	≥ 75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
White Mineral Oil	CAS-No.: 8042-47-5	25-35	Not called as hazardous
Silane, dichlorodimethyl-, reaction products with silica	CAS-No.: 68611-44-9	3-10	Not called as hazardous
Carbon dioxide (Propellant gas (Aerosol))	CAS-No.: 124-38-9	1 – 5	Not classified

The product is an aerosol. The components' disclosure has been adjusted to no longer include the propellant.

Full text of hazard classes and H-statements : see section 16

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SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: Risk of lung edema.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: Extremely flammable aerosol.
Explosion hazard	: Pressurized container: may burst if heated.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Prevent runoff from entering drains, sewers or waterways. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
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For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.

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Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Packaging materials : Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Carbon dioxide (124-38-9)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Carbon dioxide
ACGIH® TLV® TWA	5000 ppm
ACGIH® TLV® STEL	30000 ppm
Remark (ACGIH)	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Carbon dioxide
OSHA PEL TWA	9000 mg/m ³
	5000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Heptane, branched, cyclic and linear (426260-76-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Heptane, Straight and branched isomers

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Heptane, branched, cyclic and linear (426260-76-6)	
ACGIH® TLV® TWA	200 ppm
ACGIH® TLV® STEL	400 ppm
USA - OSHA - Occupational Exposure Limits	
Local name	n-Heptane
OSHA PEL TWA	2000 mg/m ³
	500 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:				
Wear protective gloves				
Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Neoprene rubber (HNBR), Natural rubber	Check with protective equipment manufacturer's data.		
Eye protection:				
Wear eye protection				
Type	Field of application		Characteristics	
Safety glasses	Eye protection should only be necessary where liquid could be splashed or sprayed		Clear	
Skin and body protection:				
Wear suitable protective clothing				
Respiratory protection:				
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended				

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid
Color : No data available
Odor : No data available
Odor threshold : No data available
pH : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Flammability (solid, gas) : Extremely flammable aerosol.
Vapor pressure : No data available
Relative vapor density at 20°C : No data available
Relative density : No data available

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Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: < 20 mm ² /s
Explosion limits	: No data available
Explosive properties	: Pressurized container: may burst if heated.
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurized container: may burst if heated.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

Likely routes of exposure : Inhalation. Skin and eye contact.

11.1. Information on toxicological effects

Acute toxicity (oral) : No data available (Not to be expected)

Acute toxicity (dermal) : No data available (Not to be expected)

Acute toxicity (inhalation) : No data available (Not to be expected)

Heptane, branched, cyclic and linear (426260-76-6)	
LD50 oral rat	> 5840 mg/kg Read-across
LD50 dermal rat	2800 – 3100 mg/kg body weight Animal: rat
LC50 Inhalation - Rat	> 23.3 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation : Causes skin irritation.

Heptane, branched, cyclic and linear (426260-76-6)	
Read-across, rabbit	Causes skin irritation (OECD 404 method)

Serious eye damage/irritation : No data available (Not to be expected)

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Heptane, branched, cyclic and linear (426260-76-6)	
Read-across, rabbit	Not irritating to eyes EPA OPPTS 870.2400

Respiratory or skin sensitization : No data available (Not to be expected)

Heptane, branched, cyclic and linear (426260-76-6)	
Read-across, Guinea pig	Not expected to be a skin sensitizer (OECD 406 method)

Germ cell mutagenicity : No data available (Not to be expected)

Heptane, branched, cyclic and linear (426260-76-6)	
Read-across, In vitro	Classification criteria are not met (OECD 471 method), (OECD 473 method), (OECD 476 method)
Read-across, In vivo	Classification criteria are not met (OECD 478 method)

Carcinogenicity : No data available (Not to be expected)

Reproductive toxicity : No data available (Not to be expected)

Heptane, branched, cyclic and linear (426260-76-6)	
Read-across, oral, rat (OECD 414 method)	No significant developmental effects observed.
Read-across, Inhalation, rat Weight of evidence	No significant reproductive effects observed.

STOT-single exposure : May cause drowsiness or dizziness.

Heptane, branched, cyclic and linear (426260-76-6)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : No data available (Not to be expected)

Heptane, branched, cyclic and linear (426260-76-6)	
LOAEC (inhalation, rat, vapor, 90 days)	16.6 mg/l air Animal: rat, Animal sex: male
NOAEC (inhalation, rat, vapor, 90 days)	3.3 mg/l air Animal: rat, Animal sex: male

Aspiration hazard : May be fatal if swallowed and enters airways.
Symptoms/effects : May cause drowsiness or dizziness.
Symptoms/effects after inhalation : None under normal conditions.
Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : Risk of lung edema.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Carbon dioxide (124-38-9)	
LC50 - Fish [1]	35 mg/l Source: HSDB

Heptane, branched, cyclic and linear (426260-76-6)	
LC50 - Fish [1]	13.4 mg/l (96 hr; Oncorhynchus mykiss; OECD Guideline 203)

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Heptane, branched, cyclic and linear (426260-76-6)	
EC50 - Crustacea [1]	4.6 – 10 mg/l Read-across; WAF; Daphnia magna
EC50 72h - Algae [1]	29 mg/l Read-across; WAF; Raphidocelis subcapitata
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	0.17 mg/l Read-across; WAF; Daphnia magna; OECD Guideline 211
NOEC chronic algae	3 mg/l Read-across; WAF; Raphidocelis subcapitata; OECD Guideline 201

12.2. Persistence and degradability

DETOUR® Wire Protection Gel	
Persistence and degradability	Not rapidly degradable

Carbon dioxide (124-38-9)	
Persistence and degradability	Not rapidly degradable

Heptane, branched, cyclic and linear (426260-76-6)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : No data available
Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.

SECTION 14 Transport information




In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
UN1950	1950	1950
14.2. Proper Shipping Name		
Aerosols, flammable, n.o.s.	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)		
2.1	2.1	2.1

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DOT	IMDG	IATA
		
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available		

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT) : UN1950
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg

IMDG

Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0

IATA

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA max net quantity (IATA) : 75kg

SECTION 15 Regulatory information

15.1. Federal regulations

DETOUR® Wire Protection Gel

SARA Section 311/312 Hazard Classes | Refer to SECTION 2 - HAZARDS IDENTIFICATION

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

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15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other information

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Revision date : N/A
Issue date : 12-15-2025

Full text of hazard classes and H-statements	
Aerosol 1	Aerosol, Category 1
Aquatic Acute 2	Hazardous to the aquatic environment — Acute Hazard, Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquid, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H229	Pressurized container; may burst if heated
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Safety Data Sheet (SDS), USA,

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.