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DYLOX® 420 SL TURF AND ORNAMENTAL INSECTICIDE

Version 1.0 / USA Revision Date: 11/16/2020 102000057394 Print Date: 11/16/2020

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

Product identifier

Trade name DYLOX® 420 SL TURF AND ORNAMENTAL INSECTICIDE

Product code (UVP) 87357449

SDS Number 102000057394 **EPA Registration No.** 5481-643-432

Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide

Restrictions on use See product label for restrictions.

Information on supplier

Supplier Bayer Environmental Science

> A division of Bayer CropScience LP 5000 Centregreen Way, Suite 400

Cary, NC 27513

USA

Responsible Department Email: SDSINFO.BCS-NA@bayer.com

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days)

Product Information Telephone Number

1-800-334-7577

1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Reproductive toxicity: Category 2 Eye irritation: Category 2B

Acute toxicity(Oral, Inhalation): Category 4

Flammable liquids: Category 4

Labelling in accordance with regulation HCS 29CFR §1910.1200





Signal word: Warning



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Hazard statements

Suspected of damaging fertility or the unborn child.

Causes eye irritation.

Harmful if swallowed or if inhaled.

Combustible liquid.

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wash thoroughly after handling.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Do not eat, drink or smoke when using this product.

Avoid breathing mist/ spray.

Use only outdoors or in a well-ventilated area.

Keep away from open flames/hot surfaces. - No smoking.

IF exposed or concerned: Get medical advice/ attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local regulation.

Hazards Not Otherwise Classified (HNOC)

This product contains an cholinesterase inhibitor.

No physical hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Trichlorfon	52-68-6	37.3
2-(2-Methoxyethoxy)ethanol	111-77-3	62.7

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, dermal absorption or ingestion of this product may result in systemic intoxication due to inhibition of the enzyme cholinesterase.

Symptoms of poisoning may appear several hours later.



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Inhalation Move to fresh air. If person is not breathing, call 911 or an ambulance,

then give artificial respiration, preferably mouth-to-mouth if possible.

Call a physician or poison control center immediately.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Take

off contaminated clothing and shoes immediately. Call a physician or

poison control center immediately.

Eye contact Hold eye open and rinse slowly and gently with water for 15-20

minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center

immediately.

Ingestion Call a physician or poison control center immediately. Rinse out mouth

and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim

unattended.

Most important symptoms and effects, both acute and delayed

Symptoms This product causes reversible cholinesterase inhibition without long

term effects., Repeated overexposure may cause more severe cholinesterase inhibition with more pronounced symptoms.

The symptoms of cholinesterase inhibition include:

Nausea, Salivation, Lachrymation, Blurred vision, Constriction of pupils

Indication of any immediate medical attention and special treatment needed

Risks This product contains an anticholinesterase compound. Do not use if

under medical advice not to work with such compounds.

Treatment The following antidotes are generally accepted: atropin and oximes.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Carbon dioxide (CO2), Dry chemical, Foam, Water spray

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.



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Further information Keep out of smoke. Fight fire from upwind position. Cool closed

containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Whenever possible, contain fire-fighting water by diking area with sand or earth.

Flash point 84.4 °C

Auto-ignition temperatureNo data availableLower explosion limitNo data availableUpper explosion limitNo data availableExplosivityNo data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Isolate hazard area. Keep unauthorized people away. Avoid contact

with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Collect and transfer the product

into a properly labelled and tightly closed container. Clean

contaminated floors and objects thoroughly, observing environmental

regulations.

Additional advice Use personal protective equipment. If the product is accidentally

spilled, do not allow to enter soil, waterways or waste water canal.

Reference to other sections Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle and open container in a manner as to prevent spillage. Use only

in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Hygiene measures Wash hands thoroughly with soap and water after handling and before

eating, drinking, chewing gum, using tobacco, using the toilet or

applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after

handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before

using again. Wash thoroughly and put on clean clothing.



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Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children,

preferably in a locked storage area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Trichlorfon	52-68-6	1 mg/m3 (TWA)	02 2012	ACGIH
(Inhalable fraction.)		, ,		
Trichlorfon	52-68-6	0.28 mg/m3 (SK-SEN)		OES BCS*

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

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

When respirators are required, select NIOSH approved equipment Respiratory protection

based on actual or potential airborne concentrations and in

accordance with the appropriate regulatory standards and/or industry

recommendations.

Hand protection Chemical resistant nitrile rubber gloves

Eye protection 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 colourless characteristic Odour **Odour Threshold** No data available

pН ca. 2.3 (10 %) (20 °C) (deionized water)



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Melting point/freezing point

Boiling Point No data available

Flash point 84.4 °C

Flammability No data available **Auto-ignition temperature** No data available

Minimum ignition energy No data available Self-accelarating

decomposition temperature

(SADT)

Density

No data available

Upper explosion limit No data available Lower explosion limit No data available Vapour pressure No data available **Evaporation rate** No data available Relative vapour density No data available

Relative density No data available

Water solubility soluble

Partition coefficient: n-

octanol/water

Trichlorfon: log Pow: 0.43

1.13 - 1.20 g/cm3 (20 °C)

Viscosity, dynamic No data available Viscosity, kinematic No data available Oxidizing properties No data available No data available **Explosivity**

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition Stable under normal conditions.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

prescribed instructions.



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Conditions to avoid Heat, flames and sparks.

Extremes of temperature and direct sunlight.

Incompatible materials Strong oxidizing agents, Bases

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Eye contact, Skin contact, Ingestion, Inhalation

Immediate Effects

Eye Moderate eye irritation.

Skin May cause slight irritation. Harmful if absorbed through skin.

Ingestion Harmful if swallowed.

Inhalation May be harmful if inhaled.

Information on toxicological effects

Acute oral toxicity LD50 (female Rat) 1,098 mg/kg

Acute inhalation toxicity LC50 (Rat) > 2.05 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

highest concentration tested

No deaths

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg Skin corrosion/irritation slight irritation (Rabbit)

Serious eye damage/eye

irritation

Moderate eye irritation. (Rabbit)

Respiratory or skin

sensitisation

Skin: Non-sensitizing. (Guinea pig)

Assessment STOT Specific target organ toxicity - single exposure

Trichlorfon: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity - repeated exposure

Trichlorfon did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

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

Assessment carcinogenicity

Trichlorfon was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH



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Trichlorfon 52-68-6 Group A4

NTP

None.

Trichlorfon 52-68-6 Overall evaluation: 3

OSHA None.

Assessment toxicity to reproduction

Trichlorfon is not considered a reproductive toxicant at non-maternally toxic dose levels.

Assessment developmental toxicity

Trichlorfon did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Leuciscus idus (Golden orfe)) 0.52 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient trichlorfon.

LC50 (Oncorhynchus mykiss (rainbow trout)) 0.7 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient trichlorfon.

Toxicity to aquatic

invertebrates

LC50 (Daphnia magna (Water flea)) 0.00096 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient trichlorfon.

Toxicity to aquatic plants EC50 (Desmodesmus subspicatus (green algae)) 347 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient trichlorfon.

Biodegradability Trichlorfon:

rapidly biodegradable

Koc Trichlorfon: Koc: 0

Bioaccumulation Trichlorfon: Bioconcentration factor (BCF) 0.41

Does not bioaccumulate.

Mobility in soil Trichlorfon: Highly mobile in soils

Results of PBT and vPvB assessment



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PBT and vPvB assessment Trichlorfon: 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).

Environmental precautions Apply this product as specified on the label.

Do not apply directly to water, to areas where surface water is present

or to intertidal areas below the mean high water mark.

Do not contaminate surface or ground water by cleaning equipment or

disposal of wastes, including equipment wash water. Do not apply when weather conditions favor runoff or drift. Drift and runoff from treated areas may be hazardous to aquatic

organisms in adjacent sites.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Improper disposal of excess pesticide, spray mixture, or rinsate is a

violation of Federal Law.

Dispose of unused product by incineration at a licensed incineration plant, in accordance with all applicable national and local regulations.

Contaminated packaging Do not re-use empty containers.

Triple rinse containers.

Completely empty container into application equipment, then dispose of

empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities.

If burned, stay out of smoke.

Follow advice on product label and/or leaflet.

RCRA Information Characterization and proper disposal of this material as a special or

hazardous waste is dependent upon Federal, State and local laws and

are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR

UN number 3082 Class 9 Packaging group Ш

Marine pollutant Marine pollutant

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID,

N.O.S.

(TRICHLORFON)

Reportable Quantity is reached with 268 lb of product. RQ

IMDG

UN number 3082 Class 9



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Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(TRICHLORFON SOLUTION)

IATA

UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(TRICHLORFON 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. 5481-643-432

US Federal Regulations

TSCA list

2-(2-Methoxyethoxy)ethanol 111-77-3

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

No export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Yes Yes

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Trichlorfon 52-68-6 CA, CT, IL, NJ 2-(2-Methoxyethoxy)ethanol 111-77-3 CT, IL, NJ

Environmental CERCLA

Yes

Trichlorfon 52-68-6



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Listed Yes

2-(2-Methoxyethoxy)ethanol 111-77-3

Listed

Clean Water Section 307(a)(1)

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution!

Hazard statements: Harmful if swallowed or absorbed through skin.

Causes moderate eye irritation.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

<** Phrase does not </p>
<** Phrase does not exist: ZCUST - X11.00000645 **>

exist: ZCUST -X11.00000645 **>

49CFR Code of Federal Regulations, Title 49
ACGIH US. ACGIH Threshold Limit Values
CAS-Nr. Chemical Abstracts Service number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods

N.O.S. Not otherwise specified

NTP US. National Toxicology Program (NTP) Report on Carcinogens
OECD Organization for Economic Co-operation and Development

TDG Transportation of Dangerous Goods

TWA Time weighted average

UN United Nations

WHO World health organisation



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NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 2 Instability - 0 Others - none

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

Health - 2 Flammability - 2 Physical Hazard - 0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: New Safety Data Sheet.

Revision Date: 11/16/2020

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