# SAFETY DATA SHEET

1. Identification

**Product identifier** Scepter T&O 70 WDG Herbicide

Other means of identification

561 SDS number

**Product registration** 5481-613

number Recommended use

Herbicide. For use on established lawns of bermuda grass, St. Augustine grass, Centipede grass,

and Zoysia grass.

For use on golf courses, sod farms, commercial and residential turf, and for use around selected

landscape ornamentals.

No other uses are advised. Recommended restrictions

Keep out of the Reach of Children!

**EPA Registration number** EPA: 5481-613

Manufacturer/Importer/Supplier/Distributor information

**Company Name AMVAC Chemical Corporation** 

**Address** 4695 MacArthur Court

**Suite 1200** 

Newport Beach, CA 92660

**United States** 

**Telephone** 

949-260-1200 **AMVAC Chemical Corp AMVAC Chemical Corp** 949-260-6270(FAX) **Product Use** 888-462-6822 Website www.amvac.com

E-mail CustServ@amvac.com

**Emergency phone number** 

Medical 888-681-4261 **CHEMTREC®** 800-424-9300

(USA+Canada)

**CHEMTREC®** (Outside +1-703-527-3887

USA)

2. Hazard(s) identification

**Physical hazards** Not classified. **Health hazards** Not classified.

Hazardous to the aquatic environment, **Environmental hazards** 

Category 1 long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Very toxic to aquatic life with long lasting effects. **Hazard statement** 

**Precautionary statement** 

Prevention Avoid release to the environment.

Collect spillage. Response

Store away from incompatible materials. Storage

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Material name: Scepter T&O 70 WDG Herbicide 1709 Version #: 3.0 Revision date: Jul-18-2023 Issue date: Jul-14-2017 Hazard(s) not otherwise classified (HNOC)

**Supplemental information** 

None known.

This is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced in section 15. The pesticide label also includes other important information, including directions for use.

This product is not combustible in the form in which it is shipped by the manufacturer, but may form a combustible dust through downstream activities (e.g. grinding, pulverizing) that reduce its particle size.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Imazaquin		81335-37-7	70
Kaolin		1332-58-7	15-30
Impurities			
Chemical name	Common name and synonyms	CAS number	%
Crystalline Silica		14808-60-7	< 0.1

#### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes.

Call a physician or poison control center for treatment advice.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

Direct contact with eyes may cause temporary irritation.

present, after the first 5 minutes, then continue rinsing eyes. Call a physician or poison control

center for treatment advice.

Ingestion Rinse mouth. Drink plenty of water. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Indication of immediate

medical attention and special treatment needed

Treat symptomatically.

General information

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible).

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Foam. Dry chemical powder. Carbon dioxide (CO2). Water spray. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighte Fire fighting

equipment/instructions

Evacuate area of all unnecessary personnel. Move containers from fire area if you can do so without risk. Dike and collect extinguishing water. Do not allow contaminated water to enter drains or waterways. Dusty conditions may ignite explosively in the presence of an ignition source, causing a flash fire.

Specific methods Use standa

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep upwind. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Dike the spilled material, where this is possible. Prevent product from entering drains. Shovel up and place in a container for salvage or disposal. Spilled substance should be recovered whenever possible and applied according to label rates. Following product recovery, decontaminate the surface and flush area with water. Collect any wash water for approved disposal.

Material name: Scepter T&O 70 WDG Herbicide

# **Environmental precautions**Do not discharge into the subsoil/soil. Do not discharge into drains, water courses or onto the ground. Contain contaminated water/firefighting water.

### 7. Handling and storage

#### Precautions for safe handling

Pesticide Applicators & Workers: Refer to the Product Label for Handling Instructions.

Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Provide adequate ventilation. Wear appropriate personal protective equipment. Handle and open container with care. Avoid contact with eyes, skin, and clothing. Avoid dust formation. Keep away from sources of ignition - No smoking. Ground container and transfer equipment to eliminate static electric sparks. Avoid release to the environment. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Do not store at temperatures above 40°C (104°F). Store away from incompatible materials (see Section 10 of the SDS). Prevent contamination with other crop protection products, fertilizers, food, and feed.

# 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Permissible Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust.
Impurities	Туре	Value	Form
Crystalline Silica (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 Permissible	• • • • • • • • • • • • • • • • • • • •	•	
Components	Туре	Value	Form
(CAS 1332-58-7)	TWA	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction
mpurities	Туре	Value	Form
Crystalline Silica (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Value	es (TLV)		
Components	Туре	Value	Form
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction
Impurities	Туре	Value	Form
Crystalline Silica (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction
NIOSH. Immediately Dangerous t	o Life or Health (IDLH) Values	, as amended	
Impurities	Туре	Value	
Crystalline Silica (CAS 14808-60-7)	IDLH	50 mg/m3	
US. NIOSH: Pocket Guide to Chei		• • • • • • • • • • • • • • • • • • • •	_
Components	Туре	Value	Form
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Impurities	Туре	Value	Form
Crystalline Silica (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

No biological exposure limits noted for the ingredient(s).

**Biological limit values** 

#### Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

#### Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Long-sleeved shirt and long pants or coveralls, socks and closed toe shoes are required.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not available.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Physical state Solid.

**Form** Dry flowable water dispersible granules.

Color Off-white to beige.

Odor Nutty; Faint odor.

Odor threshold Not available.

**pH** 3 - 5 (0.1%(m), approx 20°C)

Melting point/freezing point 426.2 - 431.6 °F (219 - 222 °C) (a.i.)

Initial boiling point and boiling

range

Has not been tested

Flash point Not applicable (solid)

Evaporation rate Not available. Flammability (solid, gas) Not available.

#### Upper/lower flammability or explosive limits

Explosive limit - lower (%) No hazard is expected as long as the product is used appropriately and in accordance with the

intended use.

Explosive limit - upper (%) No hazard is expected as long as the product is used appropriatedly and in accordance with the

intended use.

Vapor pressureNegligibleVapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Dispersible

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature >572 °F (>300 °C) (Imazaquin)

Decomposition temperature 383 °F (195 °C) (Imazaquin)

Viscosity Not available.

Other information The data presented in this section are typical values and should not be construed as a

specification.

Bulk density 481 - 609 kg/m³ (approx)

4.67 lb/gal (US, approx)

Chemical family Imidazole derivative

**Dust explosion properties** 

Kst <200 bar.m/s

St class 1

**Flammability** Based on the structure or composition there is no indication of flammability

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid conditions which create dust. Avoid heat, sparks, open flames and other ignition sources.

Avoid temperatures exceeding the decomposition temperature. Avoid electro-static discharge.

Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition

products

No hazardous decomposition products are known.

Emits hazardous fumes and smoke of unknown composition when heated to decomposition or

burned.

# 11. Toxicological information

Information on likely routes of exposure

Inhalation Dust may irritate respiratory system.

Prolonged skin contact may cause temporary irritation. Skin contact Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

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

**Test Results** Product **Species** 

Scepter T&O 70 WDG Herbicide

Acute

**Dermal** 

Solid

LD50 Rabbit > 2000 mg/kg

Inhalation

Dust

LC50 Rat > 5.7 mg/l, 4 h (Imazaguin only)

Oral

Solid

LD50 Rat > 6598 mg/kg (male/female)

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Irritation Corrosion - Skin

Scepter T&O 70 WDG Herbicide Result: Minimally irritating

> Species: Rabbit Organ: skin

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

**Irritation Corrosion - Eye** 

Scepter T&O 70 WDG Herbicide Result: Slightly irritating

> Species: Rabbit Organ: eye

Respiratory or skin sensitization

Not a respiratory sensitizer. Respiratory sensitization

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classifiable as to carcinogenicity to humans. Please note that the carrier is a natural mineral

and as such may contain traces of Crystalline Silica (CAS 14808-60-7).

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline Silica (CAS 14808-60-7) 1 Carcinogenic to humans.

Material name: Scepter T&O 70 WDG Herbicide 1709 Version #: 3.0 Revision date: Jul-18-2023 Issue date: Jul-14-2017 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline Silica (CAS 14808-60-7)

US. National Toxicology Program (NTP) Report on Carcinogens

Crystalline Silica (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard.

Aspiration hazard Chronic effects

Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Product		Species	Test Results
Scepter T&O 70 WDG	G Herbicide		
Acute			
	EC50	Selenastrum capricornutum (new name Pseudokirchnerella subca	101.6 mg/l, 96 h
Aquatic			
Acute			
Crustacea	EC50	Daphnia	316 mg/l, 48 h
Fish	LC50	Pimephales promelas	127 mg/l, 96 h
Components		Species	Test Results
Imazaquin (CAS 8133	35-37-7)		
Aguatia	•		

Aquatic

Acute Crustacea EC50 Daphnia > 100 mg/l, 48 h Fish LC50 Rainbow Trout (oncorhynchus mykiss) > 100 mg/l, 96 h Other EC50 Anabaena flos-aquae 18.5 mg/l, 96 h Chronic

Other

EC50 Lemna gibba (fronds) 0.034 mg/l, 14 d NOEC Lemna gibba (fronds) 0.0136 mg/l, 14 d

Persistence and degradability

**Photolysis** 

Half-life (Photolysis-aqueous)

**Imazaguin** 0.75 days

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Imazaguin 2.2

**Bioconcentration factor (BCF)** 

Imazaquin 0.39 Q2 estimated, I/kg

Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

Imazaguin 1.25

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions** 

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Material name: Scepter T&O 70 WDG Herbicide 1709 Version #: 3.0 Revision date: Jul-18-2023 Issue date: Jul-14-2017 Waste from residues / unused

products

Dispose of in accordance with all applicable regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

**UN number** 

UN proper shipping name Transport hazard class(es)

Environmentally hazardous substance, solid, n.o.s. (Imazaguin)

9 Class Subsidiary risk Ш Packing group **Environmental hazards** Yes **ERG Code** 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Allowed with restrictions. Cargo aircraft only

Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN3077 **UN** number

**UN** proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Imazaguin), MARINE

**POLLUTANT** 

Not applicable.

Transport hazard class(es)

Class 9 Subsidiary risk Packing group Ш

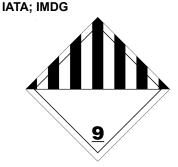
**Environmental hazards** 

Marine pollutant Yes F-A, S-F **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code



#### Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

### 15. Regulatory information

#### **US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

HAZARD TO HUMANS AND DOMESTIC ANIMALS.

CAUTION! Causes eye irritation. Avoid contact with skin, eyes or clothing. Harmful if absorbed through skin.

#### **ENVIRONMENTAL HAZARDS**

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 water by cleaning of equipment or disposal of wastes. This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly when the water table is shallow, may result in groundwater contamination.

### **Toxic Substances Control Act (TSCA)**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline Silica (CAS 14808-60-7)

lung effects

immune system effects

kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Nο

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

#### **US** state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Crystalline Silica (CAS 14808-60-7)

### California Proposition 65



WARNING: This product can expose you to chemicals including Crystalline Silica, which is known to the State of California to cause cancer. This product can expose you to Crystalline Silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline Silica (CAS 14808-60-7) Listed: October 1, 1988

**International Inventories** 

Country(s) or region Inventory name On inventory (yes/no)\*

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

# 16. Other information, including date of preparation or last revision

Jul-14-2017 Issue date Jul-18-2023 **Revision date** 

Version # 3.0

**HMIS®** ratings Health: 1

> Flammability: 1 Physical hazard: 0

Health: 1 NFPA ratings

Flammability: 1 Instability: 0

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> information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information

or the material to which the information relates.

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HMIS is a trademark of the American Coatings Association.

NFPA is a trademark of the National Fire Protection Association, Inc.

Revision information This document has undergone significant changes and should be reviewed in its entirety.

1709 Version #: 3.0 Revision date: Jul-18-2023 Issue date: Jul-14-2017