SAFETY DATA SHEET



Revision Date: 04/09/2014

Print Date: 05/01/2014

### SPECTICLE® TOTAL

**COMPANY/UNDERTAKING** 

Version 3.0 / USA 102000025082

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

### **Product identifier**

SPECTICLE® TOTAL **Trade name** 

Product code (UVP) 80197926

**SDS Number** 102000025082

**EPA Registration No.** 432-1532

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

Use Herbicide

Restrictions on use See product label for restrictions.

Information on manufacturer

Bayer Environmental Science 2 T.W. Alexander Drive

Research Triangle PK, NC 27709

**United States** 

**Emergency Telephone** Number (24hr/ 7 days)

1-800-334-7577 (24 hours/day)

**Product Information** 

1-800-331-2867

**Telephone Number** 

SDS Information or Request SDSINFO.BCS-NA@bayer.com

### **SECTION 2: HAZARDS IDENTIFICATION**

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

Acute toxicity (Inhalation): Category 4

Eye irritation: Category 2B Skin irritation: Category 2



Signal word: Warning

### **Hazard statements**

Harmful if inhaled. Causes skin irritation. Causes eye irritation.

### **Precautionary statements**

Avoid breathing mist and spray.

Use only outdoors or in a well-ventilated area.



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Wear protective gloves.

Wash thoroughly after handling.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

IF ON SKIN: Wash with plenty of soap and water.

Specific treatment (see supplemental first aid instructions on this label).

If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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.

#### Other hazards

No other hazards known.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Average % by Weight
Indaziflam	950782-86-2	0.089
Diquat dibromide	85-00-7	0.89
Glyphosate, isopropylamine salt	38641-94-0	20.46
Synthetic amorphous silica	112926-00-8	1.00

### **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.

**Skin contact** 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.

**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

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**Symptoms** To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended. There is no specific antidote.

### **SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media

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

Unsuitable None known.

Special hazards arising

from the substance or

mixture

Advice for firefighters

Special protective

equipment for fire-fighters

Firefighters should wear NIOSH approved self-contained breathing

Dangerous gases are evolved in the event of a fire.

apparatus and full protective clothing.

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

> 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

> 93.4 °C

Autoignition temperature

no data available

Lower explosion limit

no data available

Upper explosion limit

no data available

**Explosivity** 

not applicable

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

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

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.



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Additional advice Use personal protective equipment. Do not allow to enter soil,

waterways or waste water canal. Do not allow product to contact non-

target plants.

**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. Maintain

exposure levels below the exposure limit through the use of general and

local exhaust ventilation.

Hygiene measures Remove soiled clothing immediately and clean thoroughly before using

again. Wash thoroughly and put on clean clothing.

### 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. Protect from freezing.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Indaziflam	950782-86-2	0.14 mg/m3 (TWA)		OES BCS*
Diquat dibromide (Inhalable fraction.)	85-00-7	0.5 mg/m3 (TWA)	02 2012	ACGIH
Diquat dibromide (Respirable fraction.)	85-00-7	0.1 mg/m3 (TWA)	02 2012	ACGIH
Diquat dibromide	85-00-7	0.5 mg/m3 (REL)	2010	NIOSH
Diquat dibromide	85-00-7	0.5 mg/m3 (TWA)	06 2008	TN OEL
Diquat dibromide	85-00-7	0.1ug/m3 (AN ESL)	07 2011	TX ESL
Diquat dibromide	85-00-7	1ug/m3 (ST ESL)	07 2011	TX ESL
Diquat dibromide (Total dust.)	85-00-7	0.5 mg/m3 (TWA PEL)	08 2010	US CA OEL
Glyphosate, isopropylamine salt	38641-94-0	50ug/m3 (ST ESL)	06 2010	TX ESL
Glyphosate, isopropylamine salt	38641-94-0	5ug/m3 (AN ESL)	06 2010	TX ESL





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Synthetic amorphous silica	112926-00-8	6 mg/m3 (TWA)	1989	OSHA Z1A
Synthetic amorphous silica	112926-00-8	6 mg/m3 (TWA)	06 2008	TN OEL

<sup>\*</sup>OES BCS: Internal Bayer CropScience "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 Safety glasses with side-shields

Skin and body protection Wear long-sleeved shirt and long pants and shoes plus socks.

Wash hands thoroughly with soap and water after handling and General protective measures

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

or applying cosmetics.

Do not allow children or pets to enter the treated area until it has

dried.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

white to pink **Appearance** 

**Physical State** Liquid

Odor characteristic no data available **Odour Threshold** 4.0 - 6.0 at 100 % Ha **Vapor Pressure** no data available Vapor Density (Air = 1) no data available 1.10 g/cm3 at 20 °C Density **Evapouration rate** no data available **Boiling Point** no data available **Melting / Freezing Point** no data available

Water solubility soluble

Minimum Ignition Energy not applicable Decomposition no data available

temperature

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Partition coefficient: n-

octanol/water

no data available

Viscosity 300 - 800 cpsFlash point > 93.4 °C

Autoignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Explosivity not applicable

### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity

Thermal decomposition no data available

**Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

Conditions to avoid freezing

**Incompatible materials** no data available

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Ingestion, Skin Absorption, Eye contact

**Immediate Effects** 

**Eye** Moderate eye irritation.

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

**Ingestion** Harmful if swallowed.

Information on toxicological effects

Acute oral toxicity LD50 (rat) > 5,000 mg/kg

Acute inhalation toxicity LC50 (rat) > 2.04 mg/l
Exposure time: 4 h

Determined in the form of liquid aerosol.

LC50 (rat) > 8.16 mg/l Exposure time: 1 h

Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.



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Acute dermal toxicityLD50 (rabbit) > 2,000 mg/kgSkin irritationModerate skin irritation. (rabbit)

Eye irritationMild eye irritation. (rabbit)SensitisationNon-sensitizing. (guinea pig)

### Assessment repeated dose toxicity

Indaziflam caused neurobehavioral effects and/or neuropathological changes in subchronic studies in rats and dogs.

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

Diquat dibromide caused specific target organ toxicity in experimental animal studies in the following organ(s): Eyes, kidneys. Diquat dibromide caused cataract in animal studies.

### **Assessment Mutagenicity**

Indaziflam was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Glyphosate was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Diquat dibromide was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### **Assessment Carcinogenicity**

Indaziflam was not carcinogenic in lifetime feeding studies in rats and mice. Glyphosate was not carcinogenic in lifetime feeding studies in rats and mice. Diquat dibromide was not carcinogenic in lifetime feeding studies in rats and mice.

### **ACGIH**

None.

NTP

None.

**IARC** 

Synthetic amorphous silica 112926-00-8 Overall evaluation: 3

### **OSHA**

None.

### Assessment toxicity to reproduction

Indaziflam caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Indaziflam is related to parental toxicity. Glyphosate did not cause reproductive toxicity in a two-generation study in rats. Diquat dibromide did not cause reproductive toxicity in a two-generation study in rats.

### Assessment developmental toxicity

Indaziflam did not cause developmental toxicity in rats and rabbits.
Glyphosate did not cause developmental toxicity in rats and rabbits.
Diquat dibromide caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Diquat dibromide are related to maternal toxicity.

### Further information

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).

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#### SECTION 12: ECOLOGICAL INFORMATION

**Biodegradability** Indaziflam: ; not rapidly biodegradable

Glyphosate: ; not rapidly biodegradable

**Koc** Indaziflam: Koc: 496

Glyphosate: Koc: 6920

Bioaccumulation Indaziflam: Bioconcentration factor (BCF) 66; Does not bioaccumulate.

Glyphosate: ; Does not bioaccumulate.

**Mobility in soil** Indaziflam: Moderately mobile in soils

Glyphosate: Immobile in soil

**Environmental precautions** 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.

Drift and runoff from treated areas may be hazardous to aquatic

organisms in adjacent sites.

Drift or runoff from treated areas may adversely affect non-target plants.

Do not apply when weather conditions favor runoff or drift.

Apply this product as specified on the label.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

**Product** It is best to use all of the product in accordance with label directions. If it

is necessary to dispose of unused product, please follow container label

instructions and applicable local guidelines.

Never place unused product down any indoor or outdoor drain.

**Contaminated packaging** Do not re-use empty containers.

Place empty container in trash.

**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** Not dangerous goods / not hazardous material

**IMDG** 

UN number 3082
Class 9
Packaging group III
Marine pollutant YES

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Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(INDAZIFLAM, DIQUAT DIBROMIDE SOLUTION)

IATA

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

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(INDAZIFLAM, DIQUAT DIBROMIDE 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.** 432-1532

**US Federal Regulations** 

**TSCA list** None.

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

SARA Title III - Section 302 - Notification and Information

SARA Title III - Section 313 - Toxic Chemical Release Reporting

**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** 

Diquat dibromide 85-00-7 CA Synthetic amorphous silica MN 112926-00-8

**Canadian Regulations** 

**Canadian Domestic Substance List** 

Diquat dibromide 85-00-7 Glyphosate, isopropylamine salt 38641-94-0 Synthetic amorphous silica 112926-00-8

**Environmental** CERCLA

Diquat dibromide 85-00-7 1,000 lbs

**Clean Water Section 307 Priority Pollutants** 



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None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

**International Regulations** 

**European Inventory of Existing Commercial Substances (EINECS)** 

Diquat dibromide 85-00-7
Glyphosate, isopropylamine salt 38641-94-0

### **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.

Moderate eye irritation.

Avoid contact with skin, eyes and clothing.

### **SECTION 16: OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 1 Instability - 1 Others - none

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

Health - 2 Flammability - 1 Physical Hazard - 1 PPE -

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

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard

(29CFR1910.1200)

**Revision Date:** 04/09/2014

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