

## SPECTICLE® G

Version 3.0 / USA 102000029955

## Revision Date: 05/22/2020 Print Date: 05/23/2020

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

**Product identifier** 

Trade name SPECTICLE® G

Product code (UVP) 84118273

**SDS Number** 102000029955

**EPA Registration No.** 432-1523

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 Environmental Science

A division of Bayer CropScience LP 500 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) 1-800-334-7577

Product Information Telephone Number

1-800-331-2867

## **SECTION 2: HAZARDS IDENTIFICATION**

Classification in accordance with regulation HCS 29CFR §1910.1200

Acute toxicity(Inhalation): Category 4

Carcinogenicity: Category 1B

Labelling in accordance with regulation HCS 29CFR §1910.1200





Signal word: Danger
Hazard statements
Harmful if inhaled.



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## May cause cancer.

#### **Precautionary statements**

Avoid breathing dust.

Use only outdoors or in a well-ventilated area.

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.

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

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

IF exposed or concerned: 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
Indaziflam	950782-86-2	0.0224
Propyl-S-(-)-2-Hydroxy Propionate	53651-69-7	1.1
2-methylpentane-2,4-diol	107-41-5	2.0
Crystalline quartz (respirable)	14808-60-7	0.96

## **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.



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Most important symptoms and effects, both acute and delayed

**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.

**SECTION 5: FIREFIGHTING MEASURES** 

Extinguishing media

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

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

Firefighters should wear NIOSH approved self-contained breathing

apparatus and full protective clothing.

**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.

Flash point Not applicable

**Auto-ignition temperature** No data available Lower explosion limit Not applicable **Upper explosion limit** Not applicable **Explosivity** No data available

**SECTION 6: ACCIDENTAL RELEASE MEASURES** 

Personal precautions, protective equipment and emergency procedures

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

with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up Avoid dust formation. Sweep up or vacuum up spillage and collect in

suitable container for disposal. Clean contaminated floors and objects

thoroughly, observing environmental regulations.



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Additional advice 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.

**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**Use only in area provided with appropriate exhaust ventilation. Handle

and open container in a manner as to prevent spillage.

**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.

#### 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
Indaziflam	950782-86-2	0.56 mg/m3 (TWA)		OES BCS*
2-methylpentane-2,4-diol	107-41-5	125 mg/m3/25 ppm (CEILING)	1989	OSHA Z1A
2-methylpentane-2,4-diol	107-41-5	10 mg/m3 (STEL)	03 2017	ACGIH
(Aerosol, inhalable.)				
2-methylpentane-2,4-diol	107-41-5	50 ppm (STEL)	03 2017	ACGIH
(Vapor fraction)		, ,		
2-methylpentane-2,4-diol	107-41-5	25 ppm (TWA)	03 2017	ACGIH
(Vapor fraction)				
2-methylpentane-2,4-diol	107-41-5	125 mg/m3/25 ppm (Ceil_Time)	2010	NIOSH



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2-methylpentane-2,4-diol	107-41-5	125 mg/m3/25 ppm (CEILING)	06 2008	TN OEL
2-methylpentane-2,4-diol	107-41-5	125 mg/m3/25 ppm (CEILING)	08 2010	US CA OEL
Crystalline quartz (respirable)	14808-60-7	0.025 mg/m3 (TWA)	02 2012	ACGIH
(Respirable fraction.)				
Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (REL)	2016	NIOSH
(Respirable dust.)				
Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (TWA)	03 2016	OSHA
Crystalline quartz (respirable)	14808-60-7	0.025 mg/m3 (OSHA_ACT)	03 2016	OSHA
Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (PEL)	03 2016	OSHA Z1
(Respirable dust.)				
Crystalline quartz (respirable)	14808-60-7	0.050 mg/m3 (TWA)	01 2019	TN OEL
(Respirable dust.)				
Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (TWA PEL)	10 2016	US CA OEL
(Respirable dust.)				
Crystalline quartz (respirable)	14808-60-7	2.4millions of particles per cubic foot of air (TWA)	2000	Z3
(Respirable.)		, ,		
Crystalline quartz (respirable)	14808-60-7	0.1 mg/m3 (TWA)	2000	Z3
(Respirable.)				

<sup>\*</sup>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.

## **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.



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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.

**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**

Appearancegrey to tanPhysical StategranularOdorcharacteristicOdour ThresholdNo data available

pH ca. 4 - 7 (10 %)
Viscosity, kinematic No data available
Vapor Pressure No data available

Vapor Density (Air = 1) No data available

Density No data available

Bulk density45 - 55 lb/ft³Evaporation rateNot applicableBoiling PointNot applicableMelting / Freezing PointNot applicableWater solubilitydispersible

Minimum Ignition Energy No data available

**Decomposition** Stable under normal conditions. **temperature** 

Self-accelarating

decomposition temperature

(SADT)

No data available

Partition coefficient: n-

octanol/water

Not applicable

Flash point
No data available
Not applicable
Auto-ignition temperature
No data available
No data available
Not applicable



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Upper explosion limitNot applicableExplosivityNo data availableParticle sizeNo data available

#### **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.

**Conditions to avoid** Extremes of temperature and direct sunlight.

**Incompatible materials** No incompatible materials known.

**Hazardous decomposition** 

products

No decomposition products expected under normal conditions of use.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

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

**Immediate Effects** 

Eye May cause mild irritation to eyes.

Skin May cause mild irritation to the skin.

Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 5,000 mg/kgAcute inhalation toxicity LC50 (Rat) > 2.09 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

highest concentration tested

LC50 (Rat) > 8.36 mg/l Exposure time: 1 h

Determined in the form of liquid aerosol.

Extrapolated from the 4 hr LC50.

Acute dermal toxicity LD50 (Rat) > 5,000 mg/kg

Skin corrosion/irritation Slight irritant effect - does not require labelling. (Rabbit)

Serious eye damage/eye Minimally irritating. (Rabbit)



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irritation

Respiratory or skin Skin: Non

sensitisation

Skin: Non-sensitizing. (Guinea pig)

## Assessment STOT Specific target organ toxicity – single exposure

Indaziflam: May cause damage to organs in nervous system following oral route.

## Assessment STOT Specific target organ toxicity - repeated exposure

Indaziflam caused neurobehavioral effects and/or neuropathological changes in subchronic studies in rats and dogs. Indaziflam: May cause damage to organs (Nervous system) through prolonged or repeated exposure.

## **Assessment mutagenicity**

Indaziflam 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.

#### **ACGIH**

Crystalline quartz (respirable) 14808-60-7 Group A2

**NTP** 

Crystalline quartz (respirable) 14808-60-7

**IARC** 

Crystalline quartz (respirable) 14808-60-7 Overall evaluation: 1

**OSHA** 

None.

#### Assessment toxicity to reproduction

Indaziflam was not a primary reproductive toxicant in a two-generation study in rats.

## Assessment developmental toxicity

Indaziflam did not cause developmental toxicity in rats and rabbits.

## **Aspiration hazard**

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

#### **Further information**

Acute toxicity studies have been bridged from a similar formulation(s).

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

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) 0.572 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient indaziflam.



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**Toxicity to aquatic** EC50 (Daphnia magna (Water flea)) > 9.88 mg/l

**invertebrates** Exposure time: 48 h

The value mentioned relates to the active ingredient indaziflam.

Toxicity to aquatic plants IC50 (Raphidocelis subcapitata (freshwater green alga)) 0.134 mg/l

Growth rate; Exposure time: 96 h

The value mentioned relates to the active ingredient indaziflam.

**Toxicity to other organisms** LD50 (Eisenia fetida (earthworms)) > 1,000 mg/kg

Exposure time: 14 d

The value mentioned relates to the active ingredient indaziflam.

Biodegradability Indaziflam:

Not rapidly biodegradable

Koc Indaziflam: Koc: 496

**Bioaccumulation** Indaziflam: Bioconcentration factor (BCF) 66

Does not bioaccumulate.

Mobility in soil Indaziflam: Moderately mobile in soils

**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.

Apply this product as specified on the label.

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

#### Waste treatment methods

**Product** Pesticide, spray mixture or rinse water that cannot be used according to

label instructions may be disposed of on site or at an approved waste

disposal facility.

Dispose in accordance with all local, state/provincial and federal

regulations.

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



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**IMDG** 

UN number 3077
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(INDAZIFLAM MIXTURE)

**IATA** 

UN number 3077
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(INDAZIFLAM MIXTURE)

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.

Freight Classification: COMPOUNDS, TREE OR WEED KILLING, N.O.I. other than

poison, HAVING A DENSITY OF 20 LBS OR GREATER PER

**CUBIC FOOT** 

#### **SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 432-1523

**US Federal Regulations** 

**TSCA list** 

Bentonite 1302-78-9 2-methylpentane-2,4-diol 107-41-5 Propyl-S-(-)-2-Hydroxy Propionate 53651-69-7

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

None.

# **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.

Crystalline quartz (respirable) 14808-60-7



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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** 

2-methylpentane-2,4-diol 107-41-5 CA, MN, RI

None.

#### **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

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 - 1 Flammability - 1 Instability - 0 Others - none

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

Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme 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 11: Toxicological Information. Section 14: Transport Information. Reviewed and updated for general editorial purposes.

**Revision Date:** 05/22/2020

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