



Safety Data Sheet - GHS

1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

PRODUCT NAME: Excalia® Fungicide
EPA REGISTRATION NUMBER: 59639-230
VC NUMBER(S): 2172, 1946
SYNONYM(S): S-2399 2.84 SC Fungicide
PRODUCT DESCRIPTION: Fungicide

Excalia® is a registered trademark of Sumitomo Chemical Co., Ltd.

MANUFACTURER/DISTRIBUTOR

VALENT U.S.A. LLC
 P.O. Box 5075
 4600 Norris Canyon Road
 San Ramon, CA 94583

EMERGENCY TELEPHONE NUMBERS

HEALTH EMERGENCY OR SPILL (24 hr.):
 (800) 892-0099
 TRANSPORTATION (24 hr.): CHEMTREC
 (800) 424-9300 or (202) 483-7616

PRODUCT INFORMATION

AGRICULTURAL PRODUCTS: (800) 682-5368

2. HAZARDS IDENTIFICATION

Classification - (per U.S. OSHA 29 CFR 1910.1200 (Hazcom 2012))

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Eye Damage/ Irritation	Category 2A
Short-term (acute) aquatic Hazard	Category 1
Long-term (chronic) aquatic Hazard	Category 1

Label elements

Signal Word

WARNING



Hazard statements

Harmful if swallowed.
 Harmful if inhaled.
 Causes serious eye irritation.
 Very toxic to aquatic life.
 Very toxic to aquatic life with long lasting effects.

Precautionary statements**Prevention**

Wash thoroughly after handling.
 Wash face, hands and any exposed skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Avoid breathing fume/mist/vapors/spray.

Response Eyes None.

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

Rinse mouth.

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 IN EYES: Rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.

Continue rinsing. If eye irritation persists, Get medical advice/attention.

Storage

None

Disposal

Dispose of contents/container in accordance with local/regional/national regulations

Hazards not otherwise classified (HNOC)**Other Information**

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Inpyrfluxam Technical	1352994-67-2	31.25
Ingredients withheld as a Trade Secret	Various CAS#s	68.75

* The chemical name, CAS number and/or exact percentage have been withheld as a trade secret

Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling **(800) 892-0099** at any time.

4. FIRST AID MEASURES

EMERGENCY NUMBER (800) 892-0099**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 poison control center or doctor for treatment advice.

SKIN CONTACT:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything to an unconscious person.

INHALATION:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN:

Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash point °C Not Determined
Flash point °F Not Determined
EXTINGUISHING MEDIA: Water fog, carbon dioxide, foam, dry chemical

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Prevent extinguishing media run off from entering drains, sewers, and bodies of water.

HAZARDOUS DECOMPOSITION PRODUCTS: May produce toxic gases of: HCl gas, hydrogen cyanide (HCN), Oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

VALENT EMERGENCY PHONE NUMBER: (800) 892-0099
CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300

CONTAINMENT: Avoid runoff into storm sewers and ditches which lead to waterways. Contain spilled liquids with dry sorbents.

CLEANUP: Clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

7. HANDLING AND STORAGE

HANDLING:

Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Use only in well ventilated area. Avoid contact with skin and eyes. Do not breath dust.

STORAGE:

Store in a cool, well-ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep only in original container. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical name	ACGIH Exposure Limits	OSHA Exposure Limits	Other Exposure Limits
Smectite Clay CAS# 12199-37-0	TWA: 10 mg/m3 total dust; 3 mg/m3 respirable dust (PNOS)	TWA: 15 mg/m3 total dust; 5 mg/m3 respirable dust (PNOR)	None
Propylene glycol CAS# 57-55-6	None	None	US WEEL: TWA 10 mg/m ³
Octamethylcyclotetrasiloxane CAS# 556-67-2	None	None	US WEEL: TWA 10 ppm

Emergency Telephone: (800) 892-0099
REVISION NUMBER: 1

SDS NO.: 0580
REVISION DATE: 02/04/2022

Sodium hydroxide CAS# 1310-73-2	TWA 2 mg/m ³	None	None
Glyoxal CAS# 107-22-2	TWA 0.1 mg/m ³ Inhalable fraction and vapor	None	None

EYES & FACE: Do not get this material in your eyes. Eye contact can be avoided by wearing safety goggles or a face shield.

RESPIRATORY PROTECTION: Use this material only in well ventilated areas. If ventilation is not adequate to keep airborne concentrations below recommended exposure standards, approved respiratory protection should be worn.

SKIN & HAND PROTECTION: Avoid contact with skin or clothing. Skin contact can be minimized by wearing protective clothing including gloves.

ENGINEERING CONTROLS: Use in a well-ventilated area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:		Vapor pressure	Not determined
Physical State	Liquid	Vapor density	Not determined
Color	Off-white	Specific Gravity	Not determined
Odor	Rancid	Water solubility	Dispersible
pH	8.03 @ 25°C (1% w/v)	Solubility in other solvents	Not determined
Melting point / freezing point	Not determined	Partition coefficient	Not determined
Boiling point / boiling range	Not determined	Autoignition temperature	Not determined
Flash point	Not determined	Decomposition temperature	Not determined
Evaporation rate	Not determined	Viscosity	84.1 cP @ 20°C; 66.1 cP @ 40°C
Flammability (solid, gas)	Not determined	Explosive properties	Not determined
Flammability Limits in Air:		Oxidizing properties	Not determined
Upper flammability limits	Not determined	Liquid Density	1.08 g/cm ³ @ 20°C
Lower flammability limits	Not determined	Bulk density	Not determined

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral Toxicity LD ₅₀ (rats)	550 mg/kg	EPA Tox Category	III
Dermal Toxicity LD ₅₀ (rats)	>5,000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC ₅₀ (rats)	>2.10 mg/L (4 h)	EPA Tox Category	IV
Eye Irritation (rabbits)	Not irritating	EPA Tox Category	IV
Skin Irritation (rabbits)	Not irritating	EPA Tox Category	IV
Mouse (LLNA method)	Not a sensitizer	EPA Tox Category	Not applicable

TOXICITY OF S-2399 TECHNICAL

MUTAGENICITY: Ames test: negative Chromosomal Aberration test (CHL): negative Micronucleus test (mouse): negative

12. ECOLOGICAL INFORMATION

AVIAN TOXICITY: No data available

AQUATIC ORGANISM TOXICITY: Inpyrfluxam Technical is very toxic to aquatic organisms, based on the following tests:

96 hr LC₅₀ Rainbow Trout: 0.031 mg/L
 96 hr LC₅₀ Carp: <0.067mg/L
 48 hr EC₅₀ Daphnia magna: 1.1 mg/L
 72 hr EC₅₀ Green algae: 23 mg/L

OTHER NON-TARGET ORGANISM TOXICITY:

The following information for is for Inpyrfluxam Technical:
 48 Hr. Adult Acute Oral Exposure: > 111.3 micrograms ai/bee/day
 72 Hr. Larval Acute Exposure: > 100 micrograms ai/day

13. DISPOSAL CONSIDERATIONS

Check government regulations and local authorities for approved disposal of this material. Dispose of in accordance with applicable laws and regulations.

14. TRANSPORTATION INFORMATION

DOT (ground) SHIPPING NAME: Not regulated for domestic ground transport by U.S. DOT

ICAO/IATA SHIPPING NAME: UN3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Inpyrfluxam), 9, III, Marine Pollutant

REMARKS:

- Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations – see IATA Special Provision A197
- For US shipping, Emergency Response Guidebook No. 171

IMDG SHIPPING NAME: UN3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Inpyrfluxam), 9, III, Marine Pollutant

REMARKS:

- Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations – see IMDG 2.10.2.7
- For US shipping, Emergency Response Guidebook No. 171

EMS NO.: F-A, S-F

15. REGULATORY INFORMATION

EPA-FIFRA LABEL INFORMATION:

Pesticide products in the U.S. are registered by the EPA under FIFRA and are subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required by OSHA GHS for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the FIFRA pesticide label:

- **Keep out of reach of children.**

PESTICIDE REGULATIONS: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

U.S. FEDERAL REGULATIONS: Ingredients in this product are reviewed against an inclusive list of federal regulations. Therefore, the user should consult appropriate authorities. The federal regulations reviewed include: Clean Water Act, SARA, CERCLA, RCRA, DOT, TSCA and OSHA. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

SARA (311, 312):

Immediate Health:	Yes
Chronic Health:	No
Fire:	Yes
Sudden Pressure:	No
Reactivity:	No

STATE REGULATIONS: Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations.

Pennsylvania Right-To-Know

Propylene glycol	CAS# 57-55-6
Dimethyl siloxane, trimethylsiloxy-terminated	CAS# 63148-62-9
Benzoic acid	CAS# 65-85-0
dipropylene glycol	CAS# 25265-71-8
1,2-Benzisothiazolin-3-one	CAS# 2634-33-5
Sodium hydroxide	CAS# 1310-73-2
Naphthalene	CAS#: 91-20-3
1,4-Dioxane	CAS# 123-91-1
Ethylene Oxide	CAS# 75-21-8

New Jersey Right-To-Know

dipropylene glycol	CAS# 25265-71-8
1,2-Benzisothiazolin-3-one	CAS# 2634-33-5
Sodium hydroxide	CAS# 1310-73-2
1,4-Dioxane	CAS# 123-91-1
Naphthalene	CAS#: 91-20-3

Ethylene Oxide CAS# 75-21-8

Massachusetts Right-To-Know

Naphthalene CAS#: 91-20-3

1,4-Dioxane CAS# 123-91-1

Ethylene Oxide CAS# 75-21-8

Minnesota Right-To-Know

Naphthalene CAS#: 91-20-3

1,4-Dioxane CAS# 123-91-1

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product can expose you to chemicals including 1,4-Dioxane (CAS # 123-91-1), Ethylene Oxide (CAS # 75-21-8), which is/are known to the State of California to cause cancer.

This product can expose you to chemicals including Ethylene Oxide (CAS # 75-21-8), which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. OTHER INFORMATION

REASON FOR ISSUE: Update with EPA Registration Number
SDS NO.: 0580
EPA REGISTRATION NUMBER: 59639-230
REVISION NUMBER: 1
REVISION DATE: 02/04/2022
SUPERCEDES DATE: 07/21/2021
RESPONSIBLE PERSON(S): Valent U.S.A. LLC, Corporate EH&S, (925) 256-2803

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This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom").

The product label provides information specifically for product use in the ordinary course. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label.

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