



Material Safety Data Sheet

SECTION 1. IDENTIFICATION

Product Name: Solanil 80EDF HERBICIDE
EPA Registration No.: 70506-375-84237
Recommended Use: Herbicide
Manufacturer: Solera ATO, LLC
340 W. 32nd St. #383
Yuma, AZ 85364
Customer Service (928) 503-1518

FOR MEDICAL EMERGENCIES, CONTACT the National Poison Information Center 1-800-222-1222
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

HAZARD CLASSIFICATION

Acute Oral Toxicity: Category 5; Inhalation: Category 3; Acute aquatic Toxicity:

SIGNAL WORD CAUTION

HAZARD STATEMENTS

Harmful in contact with skin.

Harmful if inhaled.

PICTOGRAMS



Appearance Tan **Physical state** solid **Odor** odorless

PRECAUTIONARY STATEMENTS

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at handling.

Precautionary Statements - Prevention

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

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

In case of inadequate ventilation wear respiratory protection

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor if you feel unwell

Wash contaminated clothing before reuse

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

Immediately call a POISON CENTER or doctor/physician

Call a POISON CENTER or doctor if you feel unwell

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life
- May be harmful in contact with skin

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Propanil (ISO) (N-[3,4-dichlorophenyl] propanamide)	709-98-8	81
HiSil 233	112026-00-8	4

SECTION 4. FIRST AID MEASURES

FIRST AID MEASURES

Eye contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin contact	Take off contaminated clothing and wash before reuse. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move person 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 poison control center or doctor for further treatment advice.
Ingestion	Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Do not give any liquids. Never give anything by mouth to an unconscious person.
Protection of First-aiders	Use personal protective equipment.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects: no data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	In case of fire, use water spray (fog), foam, dry chemical or CO ₂ .
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating gases and vapours.
Hazardous thermal decomposition products	Can emit toxic fumes under fire conditions. Hydrogen chloride.
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Avoid contact with skin and eyes. Provide adequate ventilation.

Environmental Precautions

Environmental precautions Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for Clean-Up Pick up and transfer to properly labelled containers. Dam up. Soak up with inert absorbent material.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Handling Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Avoid dust formation. Remove all sources of ignition. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Protect from light. Keep in properly labelled containers.

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

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL
HiSil 233		(vacated) TWA: 6 mg/m3 TWA: 20 mppcf : (80)/(% SiO2) mg/m3 TWA

Engineering controls

Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Personal protective equipment

Eye/Face Protection

Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. If splashes are likely to occur, wear: Goggles.

Skin protection

Long sleeved clothing. Wear protective gloves/clothing. Solvent-resistant apron and boots. Impervious gloves.

Respiratory protection

Select respirator with an organic vapor cartridge with prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with organic vapor cartridge or canister with any N,P,R, or HE filter.

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Wear respiratory protection.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	: Solid. [Dry flowable powder.]
Color	: TAN
Odor	: Odorless
Melting point	: 10°C - 50 °F
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Not available.
Partition coefficient: octanol/water	: Not available..
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
pH (1% w/v)	: 9
Specific Gravity	: 0.55-0.62 g/cc

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: The product is stable under normal conditions. Hazardous polymerization does not occur.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Extremes of temperature and direct sunlight.

Incompatible materials: Strong oxidizing agents. Strong acids. Strong Bases.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours. Hydrogen chloride. chloroanilines. Organic acids.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose
Solaniil 80EDF	LC50 inhalation	Rat	6.0 mg/L (for similar material)
	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	>3000 mg/kg

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion

Potential acute health effects

Eye contact	:	Moderately irritating to the eyes.
Inhalation	:	May cause irritation of the respiratory tract.
Skin contact	:	May be harmful if absorbed through the skin.
Ingestion	:	HARMFUL IF SWALLOWED

Delayed and immediate effects and also chronic effects from short and long term exposure **Short term exposure**

Sensitization: There is no data available.

Carcinogenicity: The information below indicates where any agency has listed any ingredient as a carcinogen:

Chemical name	ACGIH	IARC	NTP	OSHA
HiSil 233 112926-00-8	-	Group 3	-	-

Reproductive effects: Not available

Specific target organ toxicity (single exposure): There is no data available.

Specific target organ toxicity (repeated exposure): Avoid repeated exposure.

Aspiration Hazard: No information Available

SECTION 12. ECOLOGICAL INFORMATION

Marine Pollutant.

Ecotoxicity (for active ingredient - Propanil)

Bluegill sunfish 96 hr LC50 = 5.4 mg/L

Rainbow trout 96 hr LC50 = 2.3 mg/L

Quail Oral LD50 = 196 mg/kg

Quail 8 day dietary LC50 = 2861 ppm

Mallard duck 8 day dietary LC50 = 5627 ppm

Daphnia magna 48 hr EC50 = 0.14 mg/L

Estuarine and marine organism 48-96 hr EC50 = 0.4 - 5.8 mg/L

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
Propanil 709-98-8	3.07

Other Adverse Effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste Disposal Method Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packaging Refer to product label.

SECTION 14. TRANSPORT INFORMATION

DOT

- **NON-BULK CONTAINERS TRANSPORTED DOMESTICALLY BY HIGHWAY**
NOT REGULATED
- **BULK CONTAINERS OR NON-BULK CONTAINERS TRANSPORTED BY INLAND WATERWAYS**
UN NUMBER: 3077
UN PROPER SHIPPING NAME : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S.
(Propanil)

HAZARD CLASS: 9
PACKING GROUP: III
ENVIRONMENTAL HAZARD: IMDG Marine Pollutant

IMDG

UN NUMBER: 3077
UN PROPER SHIPPING NAME : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Propanil)
HAZARD CLASS: 9
PACKING GROUP: III
ENVIRONMENTAL HAZARD: Yes
EmS No. F-A,S-F

SECTION 15. REGULATORY 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 as required on the pesticide label:

Signal Word CAUTION

Ventilation Control PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Keep out of Reach of Children. Harmful if absorbed through the skin. Harmful if swallowed. Causes moderate eye irritation. Toxic to fish and aquatic invertebrates.

International Inventories

USINV	Not present
DSL/NDSL	Not present
EINECS/ELINCS	Not Present
ENCS	Not Present
China	Not Present
KECL	Not Present
PICCS	Not Present
AICS	Not Present
TSCA	Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

CERCLA
Not applicable

CERCLA
SARA Product RQ 0

RCRA

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA – Pesticide Product Other Ingredients	FIFRA – Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
HiSil 233 112926-00-8 (4%)			X	
Propanil 709-98-8 (81%)			X	Present

State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
HiSil 233 (CAS# 112926-00-8)	X	X	X		
Propanil (CAS# 709-98-8 X)		X			

International Regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-375-84237

SECTION 16. OTHER INFORMATION

NFPA HEALTH 1 Flammability 0 Instability 0 Physical hazard -

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.

Revision Date: 11-19-24