

Safety Data Sheet

1 IDENTIFICATION

Product Name:



EPA Reg. No.:
Chemical Family:

61842-41
 Pyridazinones

Manufacturer/Supplier:



Tessengerlo Kerley Inc.
 2255 N. 44th Street, Suite 300
 Phoenix, Arizona 85008-3279
 Information: (602) 889-8300

For 24-Hour Emergency Assistance (Spill, Leak, Fire, or Exposure), Call CHEMTREC®:

(800) 424-9300 (CHEMTREC)
 (866) 374-1975 (Tessengerlo Kerley)

2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

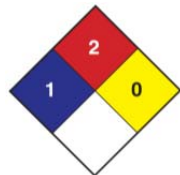
Pictogram	Hazard Statements	Precautionary Statements
	Harmful if swallowed Causes skin irritation Causes eye irritation	Wash face and hands thoroughly after handling. Do not eat, drink or smoke when using this product. If swallowed: Call a poison center if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice. 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. Take off contaminated clothing and wash it before reuse.
	May cause damage to organs through prolonged or repeated exposure	Do not breathe dust. Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. If exposed or concerned: Seek medical advice Dispose of contents and container in accordance with local regulations

Other Hazard Statements: May form combustible dust concentrations in air.

Signal word

Warning

NFPA Hazard Ratings



Health = 1
 Fire = 2
 Reactivity = 0

HMIS Ratings

HMIS Ratings		
HEALTH	1	Health = 1
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture

Description: Mixture of the substance(s) listed below with nonhazardous additions.

Active Ingredient:	Component	CAS No.	% by Weight
	Norflurazon	27314-13-2	78.6

4 FIRST AID MEASURES

Description of first aid measures

General information:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call toll free 1-866-374-1975. See Label for Additional Precautions and Directions for Use.

IF SWALLOWED: 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 by mouth to an unconscious person.

IF IN EYES: 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.

IF ON SKIN OR CLOTHING: 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.

IF INHALED: 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.

5 FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents:

Use dry chemical, foam or CO₂. If water is used to fight fire, dike and collect runoff.

Special hazards arising from the substance or mixture

This material can be thermally unstable at elevated temperatures.

During a fire, irritating and possible toxic gases may be generated by thermal decomposition or combustion.

Advice for firefighters

Protective equipment:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes, or products of combustion.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Follow exposure controls/personal protection outlined in Section 8.

Environmental precautions:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g., commercial products such as Tide or Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container.

Seal container and dispose contaminated material as waste according to section 13.

7 HANDLING and STORAGE

Precautions for safe handling

This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

This material can become readily charged in most operations.

Avoid prolonged or repeated exposure.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated, secure area out of reach of children and domestic animals.

Do not store food, beverages, or tobacco products in the storage area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with occupational exposure limits:

Exposure Guidelines:

Chemical Name	OSHA - PEL	ACGIH TLV	Other
Norflurazon	Not Established	Not Established	3 mg/m ³ TWA

Additional information:

Use effective engineering controls to comply with occupational exposure limits.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Breathing equipment:

Use NIOSH approved, dual cartridge respirators for dusts or mists if local ventilation is inadequate (N, R or P class filter media with NIOSH approved prefix TC-84A).

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product.

Material of gloves

Butyl rubber, BR

Natural rubber, NR

Nitrile rubber, NBR

Neoprene gloves

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:

Tightly sealed goggles

Face protection

Body protection:

Wear long-sleeved shirt and long pants, waterproof shoes and socks. Wash contaminated clothing before reuse.

9 PHYSICAL and CHEMICAL PROPERTIES

Appearance	Light brown to dark brown granules
Odor	Odorless
Odor Threshold	Not available
pH	7.7 (5% suspension in H ₂ O)
Melting/Freezing Point	345 – 356° F
Boiling Point	N/A
Flash Point	N/A
Evaporation Rate	N/A
Flammability	Combustible powder
Upper/Lower Flammability or Explosive Limits	N/A
Vapor Pressure: Norflurazon	1.0 x 10 ⁽⁻⁵⁾ mmHg @ 75°F (24°C)
Vapor Density	Not available
Relative Density	44 lbs/ft ³
Solubility: Norflurazon	33.7 ppm @ 77° F (25° C)
Partition Coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

10 STABILITY and REACTIVITY

Reactivity	Not reactive.
Chemical stability	Stable under normal use and storage conditions.
Possibility of hazardous reactions	Will not occur
Conditions to avoid	None known
Incompatible materials	None known
Hazardous decomposition products	None known

11 TOXICOLOGICAL INFORMATION

Acute toxicity:

LD/LC₅₀ values relevant for classification:

Oral	Rat LD ₅₀	1140 mg/kg
Dermal	Rabbit LD ₅₀ :	>2000 mg/kg
Inhalation	Rat LC ₅₀ :	2.6 mg/L – 4 hours

Primary irritant effect:

on the skin

Slightly irritating (rabbit)

on the eye

Mildly irritating (rabbit)

Skin Sensitization: Not a sensitizer (guinea pig)

The information below is based on the active ingredient: Norflurazon

Reproductive/

Developmental Toxicity

Chronic/Subchronic Toxicity

Delayed ossification (rabbit); Maternal toxicity at 750 ppm (rat)
 Accelerated aging changes in rats at high dose levels (1025 ppm).
 Effects in pituitary, adrenals, uterus and ovaries (rats).
 Hepatocellular hypertrophy in high dose (male mice). Slight increase
 in liver weight at 200 ppm (male dogs).

Carcinogenic categories

IARC/NTP/OSHA

None of the ingredients is listed.

12 ECOLOGICAL INFORMATION

This information is based on the active ingredient: Norflurazon

AQUATIC TOXICITY

96 hour LC ₅₀	Rainbow trout:	8.1 ppm
48 hour EC ₅₀	Daphnia magna:	15 ppm
5-day EC ₅₀	Freshwater algae:	13 ppb

AVIAN TOXICOLOGY

14-day Oral LD ₅₀	Bobwhite quail	>1000 mg/kg
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Low bioaccumulation potential
 Persistent in soil
 Stable in water
 Moderate mobility in soil
 Floats in water (after 24 h.)

13 DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency or hazardous waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

14 TRANSPORT INFORMATION

UN Number:

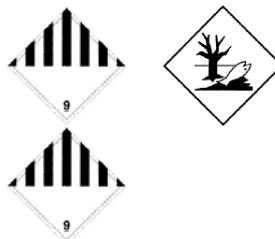
ADR, IMDG, IATA UN 3077

UN Proper shipping name:

DOT Not regulated
 ADR UN3077 Environmentally hazardous substance, solid, n.o.s. (norflurazon)
 IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (norflurazon), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (norflurazon)
 IATA

Transport hazard class(es)/Label(s):

ADR, IMDG



IATA

Hazard Class or Division:

9

Packing group:

ADR, IMDG, IATA III

Marine pollutant:

Yes

15 REGULATORY INFORMATION
FIFRA: Yes
Product Name: Solicam DF
EPA Reg. No. 61842-41

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. 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:

CAUTION

Harmful if swallowed or absorbed through the skin.
 Avoid contact with skin, eyes, or clothing.
 In case of skin or eye contact, flush with plenty of water.

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Toxic Release Reporting-Form R):

<u>Chemical name</u>	<u>CAS No.</u>	<u>Concentration</u>
Norflurazon	27314-13-2	78.6%

TSCA (Toxic Substances Control Act): Exempt from TSCA

Proposition 65

This product does not contain chemicals known to the state of California to cause developmental toxicity or cancer.

CERCLA/SUPERFUND:

RQ (Reportable Quantity) Not Applicable

RCRA Classification

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

16 OTHER INFORMATION

Issue Date: July 16, 2015

REVISIONS: SDS was reformatted in compliance with HCS 29 CFR 1910.1200 Rev. 2012 and GHS Rev 05, and ANSI Z400.1.

The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

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