SECTION-1: Identification of the substance / mixture and the company / undertaking

Catalogue Number	CS-EE-00020
Product Name	Sethoxydim
CAS No.	74051-80-2
Category	Pesticide Standards
Synonyms	(Z)-2-(1-(ethoxyimino)butyl)-5-(2-(ethylthio)propyl)-3-hydroxycyclohex-2-enone
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email **sales@clearsynth.com** for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Not available

2.2 Label Elements

Signal Word: Warning

Not available

Hazard Statement(s)

Code	Statement
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

Code	Statement
P273	Not available
P391	Not available
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Sethoxydim
CAS Number : 74051-80-2
Molecular Formula : C■■H■■NO■S
Molecular Weight : 327.48
Parent Chemical : -
Synonyms : (Z)-2-(1-(ethoxyimino)butyl)-5-(2-(ethylthio)propyl)-3-hydroxycyclohex-2-enone
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures
- General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms persist or develop. Show this SDS to medical personnel.
- Inhalation: Move person to fresh air. Keep at rest. If breathing is difficult, seek medical attention.
- Skin contact: Wash with plenty of soap and water. Seek medical attention if irritation occurs.
- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
- Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed
- Not available.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.
- No data available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
- Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical, carbon dioxide.
- Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture
- Hazardous combustion products: Carbon oxides, nitrogen oxides, sulfur oxides.
- Other hazards: Dust/combustible dust hazard not available.

5.3 Advice for firefighters
- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Use water spray to cool unopened containers.
- Avoid breathing fire gases/fumes.
- Prevent fire-fighting water from entering drains or waterways.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Avoid dust formation and inhalation of dust/vapors.
- Use appropriate personal protective equipment (see Section 8).
- Ensure adequate ventilation.

6.2 Environmental precautions
- Avoid release to the environment.
- Prevent entry into drains, surface water, and soil.

6.3 Methods and material for containment and cleaning up
- For small spills: Sweep up or collect using methods that minimize dust generation. Place in a suitable, labeled container for disposal.
- For large spills: Contain spill. Collect mechanically where possible. Dispose of collected material in accordance with local regulations.
- Clean spill area with suitable cleaning method; avoid generating airborne dust.

6.4 Reference to other sections
- See Section 8 for exposure controls/personal protection and Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling
- Avoid contact with skin and eyes.
- Avoid breathing dust/vapors.
- Use with adequate ventilation.
- Do not eat, drink, or smoke when using this product.
- Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities
- Store in tightly closed container in a cool, dry, well-ventilated place.
- Protect from moisture.
- Keep away from incompatible materials.
- Incompatible materials: Not available.

7.3 Specific end use(s)
- Pesticide standard / laboratory use. No further information available.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
- Occupational exposure limits: Not available.
- Biological limit values: Not available.

8.2 Exposure controls
- Engineering controls: Provide appropriate exhaust ventilation and/or general ventilation to control airborne levels.

Personal protective equipment (PPE)
- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves (material not specified). Wear protective clothing to prevent skin contact.
- Respiratory protection: If ventilation is inadequate or dust/aerosols may be generated, use a suitable particulate respirator in accordance with applicable standards.
- Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing and wash before reuse.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available

Property	Value
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

SECTION 10: Stability and reactivity

10.1 Reactivity
- No data available.

10.2 Chemical stability
- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
- No data available.

10.4 Conditions to avoid
- Heat, open flames, and sources of ignition.
- Avoid dust generation.
- Other: Not available.

10.5 Incompatible materials
- Not available.

10.6 Hazardous decomposition products
- Carbon oxides, nitrogen oxides, sulfur oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: LC50 (rat) = 6,280 mg/m3/4h
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: Cancer Classification: Not Likely to be Carcinogenic in Humans. /LABORATORY ANIMALS: Chronic Exposure or Carcinogenicity/ NP-55 (sethoxydim), 96.86% purity, was administered to beagle dogs in the diet at 0, 300, 600 or 3600 ppm for 1 year, 6/sex/group, in a standard chronic study. Achieved doses were 0, 8.86, 17.5 and 110 mg/kg/day for males and 0, 9.41, 19.9 and 129 mg/kg/day for females. A functional NOEL=300 ppm, with plausibly treatment-related findings of no obvious health significance at 300 ppm in livers of males: a "ground glass" appearance of hepatocellular cytoplasm was dose-related at and above 300 ppm in males and 600 ppm in females. Alkaline phosphatase was elevated in 600 ppm males. Liver-related findings at 3600 ppm, usually in both sexes, included the above findings, plus elevated liver weight, elevated alanine aminotransferase, and reduced

calcium, albumin, and cholesterol. Hemosiderosis was unaffected in females, but appeared elevated in spleens of males, based on the original study report. This was not confirmed upon blind re-evaluation of the slides. There was a dose-related decrement in red blood cell (RBC) parameters (RBC count, hematocrit (HCT), and hemoglobin (Hb)) at 600-3600 ppm in males, however no clinical signs of anemia were evident at any dose level.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: /LABORATORY ANIMALS: Subchronic or Prechronic Exposure/ Sethoxydim (95.9% purity) was admixed in the feed at concentrations of 0, 33, 100, 300, 900 and 2700 ppm and fed to 20 Wistar rats/sex/group for 14 weeks. Body weight gain was reduced 17% and 14% for high dose males and females, respectively. Total cholesterol, bilirubin levels, and liver weights were elevated at 900 to 2700 ppm. Swollen liver cells were increased in dose-related fashion in 900 ppm to 2700 ppm males. High dose females were similarly affected, but at lower incidence. Apparent NOEL was 300 ppm, estimated to be about 20 and 21 mg/kg/day in males and females, respectively. /LABORATORY ANIMALS: Subchronic or Prechronic Exposure/ A 21 day dermal study in rabbits with a NOAEL of </= 1,000 mg/kg/day limit dose (LD). The only dose-related finding was slight epidermal hyperplasia at the dosing site in nearly all males and females dosed at 1,000 mg/kg/day. This was probably an adaptive response.
- Aspiration hazard: No data available.

Likely routes of exposure
- No data available.

Symptoms related to the physical, chemical and toxicological characteristics
- /LABORATORY ANIMALS: Chronic Exposure or Carcinogenicity/ NP-55 (sethoxydim), 96.86% purity, was administered to beagle dogs in the diet at 0, 300, 600 or 3600 ppm for 1 year, 6/sex/group, in a standard chronic study. Achieved doses were 0, 8.86, 17.5 and 110 mg/kg/day for males and 0, 9.41, 19.9 and 129 mg/kg/day for females. A functional NOEL=300 ppm, with plausibly treatment-related findings of no obvious health significance at 300 ppm in livers of males: a "ground glass" appearance of hepatocellular cytoplasm was dose-related at and above 300 ppm in males and 600 ppm in females. Alkaline phosphatase was elevated in 600 ppm males. Liver-related findings at 3600 ppm, usually in both sexes, included the above findings, plus elevated liver weight, elevated alanine aminotransferase, and reduced calcium, albumin, and cholesterol. Hemosiderosis was unaffected in females, but appeared elevated in spleens of males, based on the original study report. This was not confirmed upon blind re-evaluation of the slides. There was a dose-related decrement in red blood cell (RBC) parameters (RBC count, hematocrit (HCT), and hemoglobin (Hb)) at 600-3600 ppm in males, however no clinical signs of anemia were evident at any dose level.

SECTION 12: Ecological information

SECTION 12: Ecological information

12.1 Toxicity
- No data available.

12.2 Persistence and degradability
- No data available.

12.3 Bioaccumulative potential
- No data available.

12.4 Mobility in soil

- No data available.

12.5 Results of PBT and vPvB assessment
- Not available.

12.6 Endocrine disrupting properties
- No data available.

12.7 Other adverse effects
- No data available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Do not discharge to drains or the environment.
- Contaminated packaging: Dispose of as unused product unless cleaned according to applicable regulations.
- Waste code: Not available.

SECTION 14: Transport information

SECTION 14: Transport information

- UN number: Not available.
- UN proper shipping name: Not available.
- Transport hazard class(es): Not available.
- Packing group: Not available.
- Environmental hazards: Not available.
- Special precautions for user: Not available.
- Transport in bulk according to IMO instruments: Not available.

SECTION 15: Regulatory information

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Not available.

15.2 Chemical safety assessment
- No data available.

SECTION 16: Other information

SECTION 16: Other information

- Product name: Sethoxydim
- CAS No.: 74051-80-2
- Catalog No.: CS-EE-00020
- Supplier: Clearsynth Labs Ltd., Mumbai, India

- Emergency phone: +91-22-245045900

Disclaimer
- The information provided is believed to be accurate based on available data, but no warranty is expressed or implied. Users are responsible for determining suitability for their particular application and for compliance with applicable laws and regulations.

Revision date: Not available.

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