

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name SpiralClenz™ 2102

Other means of identification

Product Code 23102

Recommended use of the chemical and restrictions on use

Recommended Use Surfactant additive product

Uses advised against Follow the directions for use on the label when applying this product

Details of the supplier of the safety data sheet

Manufacturer Address

Safe Foods Chemical Innovations
1501 E. 8th Street
North Little Rock, AR 72114

Emergency telephone number

Company Phone Number 501-758-8500
Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

NOTE: Warnings below are for exposure to large quantities of the product. Intended use should not create a serious health hazard.

Serious eye damage/eye irritation	Category 2B
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Label elements

Emergency Overview

WARNING

Hazard statements

Causes eye irritation

Physical state Liquid	Color Clear, Amber	Odor Mild
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Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

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/attention

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

- May be harmful if swallowed
- Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	20-70
Tripropylene glycol methyl ether	25498-49-1	20-70
Poly(ethylene oxide)	25322-68-3	< 1
Dipropylene glycol	25265-71-8	< 1

*The exact percentage (concentration) of composition has been withheld as a trade secret.

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 first 5 minutes, then continue rinsing eye. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing and shoes before reuse.

Inhalation

Remove to fresh air. Administer oxygen if breathing is difficult. Consult a physician if necessary.

Ingestion

Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11 for symptom information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**Dry chemical. Water spray (fog). Carbon dioxide (CO₂). Foam.**Unsuitable extinguishing media** No information available.**Specific hazards arising from the chemical**

No information available.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂).**Explosion data****Sensitivity to Mechanical Impact** None.**Sensitivity to Static Discharge** None.**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal precautions** Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas.**For emergency responders** Isolate area. Keep unnecessary personnel away.**Environmental precautions****Environmental precautions** See section 12 for additional ecological information. Prevent entry into waterways, sewers, basements or confined areas.**Methods and material for containment and cleaning up****Methods for containment** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).**Methods for cleaning up** Collect spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water.**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on safe handling** Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Use only in well-ventilated areas. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.**Conditions for safe storage, including any incompatibilities****Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.**Incompatible materials** Oxidizers. Strong alkalis. Strong acids.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.**Appropriate engineering controls****Engineering Controls** Showers, eyewash stations, ventilation system.**Individual protection measures, such as personal protective equipment****Eye/face protection** Wear safety glasses with side shields (or goggles).**Skin and body protection** Wear protective Neoprene™ gloves or rubber gloves. Normal work clothing (long sleeved shirt and long pants) is recommended. Apron recommended.**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.**General Hygiene Considerations** Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not eat, drink or smoke when using this product.**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<u>Physical state</u>	Liquid	<u>Odor</u>	Mild
<u>Appearance</u>	Aqueous solution	<u>Odor threshold</u>	No information available
<u>Color</u>	Clear, Amber	<u>Remarks • Method</u>	
<u>Property</u>	<u>Values</u>		
<u>pH</u>	6		±1 @ 21°C

Melting point / freezing point	No information available
Boiling point / boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	0.01 mmHg @20°C
Vapor density	No information available
Specific Gravity	0.99 g/cc
Water solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
VOC Content (%)	0.00%

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

None known.

Incompatible materials

Oxidizers. Strong alkalis. Strong acids.

Hazardous Decomposition Products

Carbon monoxide. Aldehydes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	None under normal use conditions.
Eye contact	Irritating to eyes. Extended eye exposure may result in corneal damage.
Skin Contact	May cause irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause central nervous system depression.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Alcohols, C12-14-secondary, ethoxylated 84133-50-6	= 2100 mg/kg (Rat)	-	-
Tripropylene glycol methyl ether 25498-49-1	= 3200 mg/kg (Rat)	= 15440 mg/kg (Rabbit)	-
Poly(ethylene oxide) 25322-68-3	= 22 g/kg (Rat) = 28 g/kg (Rat)	> 20 g/kg (Rabbit)	-
Dipropylene glycol 25265-71-8	= 14850 mg/kg (Rat)	> 20 mL/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 99 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 2,459.40 mg/kg
 Dermal LD50 15,829.90 mg/kg

12. ECOLOGICAL INFORMATION

Marine pollutant

Yes.

Ecotoxicity

Toxic to aquatic life with long lasting effects

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Fish	Crustacea
Alcohols, C12-14-secondary, ethoxylated 84133-50-6	3.2: 96 h Pimephales promelas mg/L LC50	3.2: 48 h water flea mg/L EC50
Tripropylene glycol methyl ether 25498-49-1	11619: 96 h Pimephales promelas mg/L LC50 static	10: 48 h Daphnia magna mg/L EC50
Poly(ethylene oxide) 25322-68-3	5000: 24 h Carassius auratus mg/L LC50	-
Dipropylene glycol 25265-71-8	5000: 24 h Carassius auratus mg/L LC50 static	-

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

Soluble in water.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT

Not regulated if shipped in packaging <119 gallons by ground transport.

Containers of more than 119 gallons:

UN/ID No.

3082

Proper shipping name

Environmentally hazardous substances, liquid, n.o.s. (contains Alcohols, C12-14-secondary ethoxylated)

Hazard Class

9

Packing Group

III

Marine pollutant

Yes.

Emergency Response Guide Number

171

15. REGULATORY INFORMATION

International Inventories

TSCA

Complies

DSL/NDSL

Complies

EINECS/ELINCS

No information available

Legend:

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 Chemical Substances/European List of Notified Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard Yes
 Chronic Health Hazard No
 Fire hazard No
 Sudden release of pressure hazard No
 Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations**California Proposition 65**

WARNING! "This product can expose you to chemicals which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov." Ethylene oxide 75-21-8;

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Tripropylene glycol methyl ether 25498-49-1	X	-	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 2	Flammability 0	Instability 0	Physical and Chemical Properties None
<u>HMIS</u>	Health hazards 2	Flammability 0	Physical hazards 0	Personal protection B (safety glasses, gloves)

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The health hazards given on this SDS apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of exposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

End of Safety Data Sheet