

SAFETY DATA SHEET

1. Identification

Material Name: Nature Safe 27-0-2
Recommended Use: Fertilizer
Restrictions: None Known
Version #: 02
Revision Date: 8/26/2019
CAS #: NA
Manufacturer: Darling Ingredients Inc.
5601 N MacArthur Blvd
Irving, TX 75038, United States
Emergency Assistance: 1-800-800-4841
General Assistance: 1-800-800-4841
Email: info@darlingii.com



Warning
(Irritant skin, eyes, nose)

2. Hazards Identification

EMERGENCY OVERVIEW

Health Hazards: Practically non-toxic
Flammability Hazards: Dust Accumulation in an enclosed space may present an explosion hazard.
Reactivity Hazards: Stable

POTENTIAL HEALTH EFFECTS

Routes of Exposure: Inhalation, ingestion, skin and eye contact

Eyes: If contact with eyes, flush eyes with water for at least 15 minutes lifting upper and lower eye lids occasionally. Get medical attention if irritation persists.

Skin: Prolonged or excessive skin contact with this product may cause mild skin irritation. May cause an allergic reaction in some individuals.

Inhalation: Under normal conditions, inhalation is not expected to be a problem. However, respiratory tract irritation may occur if exposed to dust.

Ingestion: Ingestion of large amounts may cause gastrointestinal disturbances. May cause allergic reactions in some individuals.

RECOMMENDATIONS TO PHYSICIANS

Treat symptoms and eliminate overexposure.

3. Composition/Information on Ingredients

Components:	CAS #	Percent
Cooked and dehydrated animal by-products	N/A	40-50%
Urea	57-13-6	45-50%
Sulfate of potash	7778-80-5	3-5%
Vegetable by-products	N/A	0-5%
Organic nitrogen (dicyandiamide)	461-58-5	Proprietary
N-(n-Butyl)-thiophosphoric triamide	94317-64-3	Proprietary
Chemical Family:		
Protein, Mineral, Lipid	N/A	>99%
Formula:		
Cooked and dehydrated animal by-products	N/A	40-50%
Urea	57-13-6	45-50%
Sulfate of potash	7778-80-5	3-5%
Vegetable by-products	N/A	0-5%
Organic nitrogen (dicyandiamide)	461-58-5	Proprietary
N-(n-Butyl)-thiophosphoric triamide	94317-64-3	Proprietary

Synonyms: Nature Safe 27-0-2 Blended with UFLEXX

Composition Comments: Values do not reflect absolute minimums and maximums; these values are typical which may vary by production site and time of year.

This SDS is intended to communicate potential health hazards and potential physical hazards associated with the product(s) covered by this sheet and is not intended to communicate product specification information. For product specification information, contact your Nature Safe representative.

Additives: Stabilized urea, ammonium sulfate, sulfate of potash, binding agent

Hazardous concentration range: N/A

4. First-Aid Measures

FIRST AID PROCEDURES

- Eye Contact:** Flush eyes immediately with large amounts of water. Get medical attention if irritation persists.
- Skin Contact:** Wash area thoroughly with soap and water. Get medical attention if irritation develops or persists.
- Inhalation:** Remove victim to fresh air. If breathing difficulty occurs, get medical attention.
- Ingestion:** Routine use of this product is not expected to cause any situation which could lead to ingestion. If this product is swallowed call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk, water) to someone who is unconscious, having convulsions or unable to swallow.

NOTES TO PHYSICIAN

Treat symptomatically.

5. Fire-Fighting Measures

Flammable Properties:	Material may burn in a fire. Concentrated dust in an enclosed space can pose an explosive threat.
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide or suitable extinguishing foam for Class A or B fires.
Specific Hazards Arising from Product Fire:	Combustion may produce CO ₂ and other decomposition products in the case of incomplete combustion.
Firefighting Equipment and Instructions:	Evacuate area and fight fire from a safe distance. Use water to spray to cool adjacent structures and to protect personnel. Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire. Firefighters must wear NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

6. Accidental Release Measures

Environmental Precautions:	Dry clean-up by sweeping and/or scooping.
Waste Disposal Method:	Totally biodegradable. Dispose of recovered materials per local state and federal requirements. Keep dry to avoid biological decomposition.

7. Handling and Storage

Handling:	Good personal hygiene practices such as properly handling contaminated clothing, using wash facilities before entering public areas and restricting eating, drinking and smoking to designated areas are essential for preventing personal chemical contamination. Do not breath dust. Avoid contact with skin or eyes.
Precautions to be Taken In Handling and Storing:	Store in well-ventilated area away from heat, sources of ignition and incompatibles. Empty containers may contain material residue. Do not reuse without adequate precautions. Do not eat, drink or smoke in areas of use or storage.

8. Exposure Controls/Personal Protection

Exposure Limits:	Not available.
Engineering Controls:	Ventilation and other forms of engineering controls are the preferred means for controlling exposures.

PERSONAL PROTECTIVE EQUIPMENT

Eye / Face Protection:	Keep away from eyes. Eye contact can be avoided by using chemical safety glasses, goggles and/or face shield. Have eye washing facilities readily available where eye contact can occur.
Skin Protection:	Wash hands with soap and water. Protective gloves recommended.
Respiratory Protection:	Use dust masks in enclosed spaces.

9. Physical and Chemical Properties

Physical State Form	Powder
Color	Brown
Odor	Cooked meat odor
Odor threshold	Characteristic
Vapor Pressure	N/A
Vapor density	N/A
Boiling Point	N/A
Melting point	Decomposes
Solubility (water)	Insoluble
Specific gravity	0.50 average (H ₂ O=1)
Relative density	N/A
Flash point	N/A
Flammability limits in air, upper, % by volume	N/A
Flammability limits in air, lower, % by volume	N/A
Auto-ignition temperature	N/A
VOC	N/A
Evaporation rate	N/A
Viscosity	N/A
Percent volatile	N/A
Partition coefficient (n-octanol/water)	N/A
Molecular weight	N/A
Molecular formula	N/A
Other Data	
Chemical family	Protein, Mineral and Lipid
Density	N/A
Electrostatic properties	N/A
Conductivity	N/A
Cloud point	N/A

10. Stability and Reactivity

Chemical Stability:	Material is stable under normal conditions.
Conditions to Avoid:	Avoid unventilated areas, heat, open flames, sparks and ungrounded electrical equipment where dust may be present.
Incompatible Materials:	None
Hazardous Decomposition Products:	Thermal degradation may produce oxides of sulfur, carbon dioxide, nitrogen oxides.
Possibility of Hazardous Reactions:	Not anticipated under normal conditions.

11. Toxicological Information

Routes of Exposure:	Inhalation, ingestion, skin and eye contact
Eye Contact:	Get medical attention if eye irritation persists.
Skin Contact:	Get medical attention if skin irritation develops or persists.
Inhalation:	If breathing difficulty occurs, get medical attention.
Ingestion:	Routine use of this product is not expected to cause any situation which could lead to ingestion.
Numerical Measures of Toxicity:	N/A

12. Ecological Information

Ecological Toxicity:	Material not classified as harmful to aquatic organisms. However, secondary effects such as lowered dissolved oxygen when introduced to surface water can be toxic to aquatic life.
Persistence and Degradability:	Readily biodegradable in the environment.
Bioaccumulation:	This material is not expected to bio accumulate in aquatic animals.
Mobility in Environmental Media:	Not classified in terms of mobility in air, soil and water.

13. Disposal Considerations

Disposal Instruction:	<p>This material, as supplied, when discarded or disposed of, is not a hazardous waste according to Federal Regulations (40 CFR 261). Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the material to characterize and determine, at the time of disposal, whether the material is a hazardous waste subject to RCRA.</p> <p>Dispose of in accordance to applicable Federal, State, and Local Regulations.</p>
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For additional handling information and protection of employees, see Section 7 (Handling and Storage) and Section 8 (Exposure Controls/Personal Protection).

14. Transport Information

GENERAL:	US DOT, IATA, IMO, ADR: U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101. NON-REGULATED.
Canada:	TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is not classified as Dangerous Goods, per regulations of Transport Canada.
Air:	INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): This product is not classified as Dangerous Goods, by rules of IATA.
Maritime:	INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION: This product is not classified as Dangerous Goods by the IMO.
European:	EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.
UN Number (United Nations Hazardous Material #):	Not a hazardous material.

15. Regulatory Information

State Regulations:	Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65. Reformulation, use or processing of this material may affect its composition and require re-evaluation.
U.S. Regulations:	All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory. This material does not contain toxic chemicals (in excess of the applicable de minimis concentration) that are subject to the annual toxic chemical release reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313 (40 CFR 372). Check local, regional or state/provincial regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Failure to report may result in substantial civil and criminal penalties.

16. Other Information

NFPA Ratings:

Health: 1
Flammability: 1
Instability: 0

Disclaimer:

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. Adequate training and instruction should be given by you or your employees and affected personnel. Appropriate warnings and safe handling procedures should be provided by you to handlers and users. Additionally, the user should review this information, satisfy itself as to its suitability and completeness, and pass on the information to its employees or customers in accordance with the applicable federal, state, provincial or local hazard communication requirements. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, vendor neither assumes nor retains any responsibility for any damage or injury resulting from abnormal use, from any failure to adhere to appropriate practices, or from any hazards inherent to the material. Moreover, unless an employee or a customer accesses or receives a SDS directly from the company, there is no assurance that a document obtained from alternate sources is the most currently available SDS.

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