



Safety Data Sheet: DeoxyNivalenol | Fermentek

1. Identification of the substance/mixture and of the Company

Product identifiers	
Product name	DeoxyNivalenol Fermentek
Product Code	DON
CAS #	51481-10-8
EC/ REACH Number	610-668-0
Intended uses of the substance or mixture and uses advised against	
Intended use	Uses advised against:
Only For Research and/or Development	Not for drug, Not to be used in humans or animals. Not food additive
Details of the supplier of the safety data sheet	
FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com
This company is the manufacturer of the product, and the supplier of the safety data sheet	
Emergency Telephone number	
For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887	
REACH	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

2. Hazards identification

Classification of the substance

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

GHS Classification:

- Acute toxicity, Oral (Category 2), H300 (Fatal if swallowed)

GHS Label elements, including precautionary statements

Signal word {Danger}

Pictogram:



Hazard statement(s)

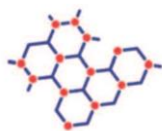
H300 Fatal if swallowed

Precautionary statement(s)

P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/ protective clothing.
 P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
 P405 Store locked up.
 P501 Dispose of contents/ container to an approved waste disposal plant.

Unclassified Hazards/Hazards Not Otherwise Classified

No data available



3. Composition/information on ingredients

Substance

Synonyms:	DON; Deoxynivalenol; Vomitoxin; 3 α , 7 α , 15-Trihydroxy-12,13-epoxytrichothec-9-en-8-one
Molecular Formula:	C ₁₅ H ₂₀ O ₆
Molecular Weight:	296.32
CAS Registry #:	51481-10-8
EC#:	610-668-0
Concentration	Acute Toxicity, Category 2; H300 Fatal if swallowed <=100%

Mixture

Not mixture.

4. First Aid Measures

General advice	Consult a physician. Remove to fresh air. Show this safety data sheet to the doctor in attendance
Skin Contact	Wash skin with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
Eye contact:	Flush with plenty of water
Ingestion:	Never give anything by mouth to an unconscious person. Clean mouth with water. Consult a physician
Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration
Self-protection of the first aider:	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination

Most important symptoms and effects, both acute and delayed

Most important symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	Carbon oxides.
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit
Further information	No further data available

6. Accidental release measures

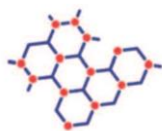
Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions See part 12

Methods and material for containment and cleaning up



Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up:	Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

7. Handling and storage

Precautions for safe handling

Advice on safe handling:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.
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Conditions for safe storage, including any incompatibilities

Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store at -20 °C.
Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

OSHA Permissible Exposure Limits	No Data Available
NIOSH Recommended Exposure Limits	No Data Available
ACGIH Threshold Limit Values	No Data Available

Exposure controls

Appropriate engineering controls

Engineering Controls:	Showers; Eyewash stations; Ventilation systems
General Hygiene Considerations:	Handle in accordance with good industrial hygiene and safety practice.

Personal protective equipment

The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

[PPE=Personal Protection Equipment]

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

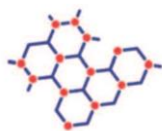
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Splash contact

Material: Nitrile rubber
Minimum layer thickness: 0.11 mm



Break through time: 480 min

The recommendations brought here, are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and chemical properties

Physical / chemical properties

Physical State at room temperature	Solid / powder
Color	White to off White
Melting/freezing point	151-153°C

No further safety-relevant information is available

10. Stability and reactivity

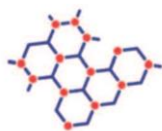
Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong reducers and oxidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products:	Carbon monoxide CO, Carbon dioxide (CO ₂).

11. Toxicological information

Information on toxicological effects

Information on likely routes of exposure

Acute toxicity	LD50 Oral - Mouse – 46 mg/kg
	LD50 Dermal - Rat - 2.56 mg/kg
	LC50 Inhalation : Rat - 10 M - 20 mg/m ³
Skin corrosion/irritation:	Mild skin irritation
Reproductive toxicity:	Laboratory experiments have shown teratogenic effects.
Additional Information	RTECS: YD0167000
Carcinogenicity	Limited evidence of a carcinogenic effect. IARC Group 3: Not classifiable as to its carcinogenicity to humans
Symptoms , signs of poisoning	Dizziness, Nausea, Vomiting; Gastrointestinal:Ulceration or bleeding from small intestine. Diarrhoea
	Based on Human Evidence Gastrointestinal disturbance, Vomiting, Diarrhoea, Nausea, Dizziness, Headache, Anorexia, Stomach - Irregularities -
Contact with skin can cause	Dermatitis, Severe irritation



To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

12. Ecological Information

Eco-Toxicity May cause long lasting harmful effects to aquatic life
Other adverse effects No further relevant information available.

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

13. Disposal Considerations

Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

14. Transport information

UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	ADR/RID:	IMDG:	IATA
UN Number / UN proper shipping name	2811 Toxic solids, organic, n.o.s., n.o.s (T2 toxin)			
Transport Hazard Class / & Packing Group	Class 6.1; pack. Group II (Deoxynivalenol)			

15. Regulatory information

Safety, health and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA
EU ECHA Status	This product is not registered with the EU ECHA
CA: DSL/NDL Status	This product is not listed on the Canadian DSL/NDL

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazard Categories

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

16. Other information

Date of revision: 17 January 2017

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 here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS