



Safety Data Sheet

DET CON 2.0 DRY

Section 1 - Chemical Product and Company Identification

RIGHT TURN SUPPLY
204 SE Ninth Street, Pella, IA 50219

Product/Chemical Name: DET CON 2.0 (DRY)

CAS Number: 10486-00-7

Derivation:

General Use:

Emergency Telephone: (ChemTrec) Contact (800) 424- 9300; INTL +1-703-527- 3887

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number	EINECS/ELINCS	% wt or % vol		
DET CON 2.0 (DRY)	10486-00-7	239-172-9	100		
Trace Impurities:	OSHA PEL	ACGIH TLV	NIOSH REL		NIOSH
Ingredient	TWA	TWA	TWA	STEL	IDLH
DET CON 2.0 DRY	none estab.	none estab.	none estab.	none estab.	none estab.

Section 2 - Hazards Identification

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆
Toxicity effects principally related to its irritating properties. Irritating to the mucos menbrance, eye and skin.

HMIS	
H	2
F	0
R	1
PPE†	
†Sec. 8	

Potential Health Effects

Primary Entry Routes: Inhalation, ingestion, eye and skin contact.

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H360 May damage fertility or the unborn child.

H402 Harmful to aquatic life.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials.
 P221 Take any precaution to avoid mixing with combustibles.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/ physician.
 P330 Rinse mouth.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

Acute Effects

INHALATION:

SHORT TERM EXPOSURE: irritation, kidney damage, liver damage

LONG TERM EXPOSURE: skin disorders, vomiting, diarrhea, loss of appetite, weight loss, blood disorders, convulsions

SKIN CONTACT:

SHORT TERM EXPOSURE: same as effects reported in short term ingestion, irritation

LONG TERM EXPOSURE: same as effects reported in long term inhalation, irritation

EYE CONTACT:

SHORT TERM EXPOSURE: irritation (possibly severe)

LONG TERM EXPOSURE: same as effects reported in short term exposure

INGESTION:

SHORT TERM EXPOSURE: irritation (possibly severe), skin disorders, fever, changes in blood pressure, nausea, vomiting, diarrhea, loss of appetite, difficulty breathing, headache, disorientation, hyperactivity, tremors, internal bleeding, kidney damage, liver damage, convulsions, coma

LONG TERM EXPOSURE: irritation, skin disorders, nausea, vomiting, diarrhea, stomach pain, loss of appetite, weight loss, joint pain, blood disorders, kidney damage, liver damage, convulsions

Carcinogenicity: IARC, NTP, and OSHA do not list Sodium Perborate Monohydrate as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure:

Chronic Effects:

Section 4 - First Aid Measures

Inhalation: Remove the subject from dusty environment, consult with a physician in case of respiratory symptoms.

Eye Contact: Flush eyes with running water for 15 minutes while keeping the eyelids wide open. Consult an ophthalmologist in all cases.

Skin Contact: Remove contaminated shoes, socks and clothing, wash the affected skin with running water. Consult a physician in case of persistent pain or redness.

Ingestion: Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

Note to Physicians: For ingestion, consider gastric lavage and activated charcoal slurry.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Special Precautions/Procedures:

Section 5 - Fire-Fighting Measures

Flash Point: N/A

Autoignition Temperature: N/A

LEL: N/A

UEL: N/A

Flammability Classification: Negligible fire hazard. Oxidizer. May ignite or explode on contact with combustible materials.

Extinguishing Media: Water. Do not use dry chemicals, carbon dioxide or halogenated extinguishing agents.



DET CON 2.0 DRY

Large fires: Flood with water. Apply water from a protected location or from a safe distance.

Unusual Fire or Explosion Hazards: Oxygen released on exothermic decomposition may support combustion. Pressure burst may occur due to decomposition in confined spaces or containers.

Hazardous Combustion Products:

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Avoid direct contact of the product with water.

Small Spills: Collect the product with suitable means, shovel or sweep, avoiding dust formation. Place in container for disposable.

Large Spills

Containment: For large spills, dike far ahead of spill for later disposal. Do not release into sewers or waterways.

Cleanup: Clean spill area with large quantities of water.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Containers and equipment used to handle the product should be used exclusively for that product. Do not return unused or spilled material to the original storage container.

Storage Requirements: Store in a dry well ventilated area, away from direct sunlight and at temperature less than 40 °C (104°F)

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

PHYSICAL STATE: solid

COLOR: white

PHYSICAL FORM: amorphous powder

ODOR: Not available

MOLECULAR WEIGHT: 153.88

MOLECULAR FORMULA: Na-B-O₃.4H₂O

BOILING POINT: Not applicable

MELTING POINT: 60 °C (140 °F)

DECOMPOSITION POINT: 104 °F (40 °C)

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

SPECIFIC GRAVITY: Not available

WATER SOLUBILITY: decomposes

PH: 10.0 - 10.4 at 10 g/l at 25 °C (77 °F)

VOLATILITY: Not applicable

ODOR THRESHOLD: Not available

EVAPORATION RATE: Not applicable

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

Section 10 - Stability and Reactivity

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid contact with combustible materials. May ignite or explode on contact with combustible materials. Keep out of water supplies and sewers.

INCOMPATIBILITIES: acids, combustible materials, reducing agents

SODIUM PERBORATE:

ACIDS: Fire and explosion hazard.

COMBUSTIBLE MATERIALS: May increase the burning rate or cause ignition on contact; finely divided materials may result in an explosion.

ORGANIC MATERIALS: May increase the burning rate or cause ignition on contact; finely divided materials may result in an explosion.

REDUCING MATERIALS: Fire or explosion hazard.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: miscellaneous decomposition products

POLYMERIZATION: Will not polymerize.

Section 11- Toxicological Information

Toxicity Data:*

LD50 Oral - Rat - 1,200 mg/kg

LD50 Dermal - Rabbit - > 2,000 mg/kg

Chronic Effects:

Carcinogenicity:

Mutagenicity:

Teratogenicity:

* See NIOSH, *RTECS (SC7350000)*, for additional toxicity data.

Section 12 - Ecological Information

Toxicity

Toxicity to fish LC50 - Danio rerio (zebra fish) - 51 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 11 mg/l - 48 h

Toxicity to algae IC50 - Desmodesmus subspicatus (green algae) - 26.8 mg/l - 96 h

Persistence and degradability

Biodegradability Biotic/Aerobic Result: 85 % - Readily biodegradable.

Bio-accumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements:

Container Cleaning and Disposal:

Section 14 - Transport Information

Not regulated for transportation

US DOT(49 CFR 172.101):

UN Number:

PSN:

Hazard Class:

Packing Group:

IATA

UN Number:

PSN:

Hazard Class:

Packing Group:

TDG

UN Number:

PSN:

Hazard Class:

Packing Group:

IMDG/IMO

UN Number:

PSN:

Hazard Class:

Packing Group:

Section 15 - Regulatory Information

U.S. REGULATIONS:

REGULATORY INFORMATION**SARA 302 Components**

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

SARA 313 Components

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 Hazards

Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Sodium peroxometaborate tetrahydrate

New Jersey Right To Know Components

Sodium peroxometaborate tetrahydrate

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 - Other Information

Disclaimer: All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable: However, it is the users responsibility to determine the safety, toxicity and suitability for its own use of this product. Right Turn Supply DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THIS PRODUCT.