

# NEXT-HD PRO M

## SAFETY DATA SHEET

**Preparation Date:** February 1, 2023 Revision 1 Replaces July 19, 2022

### 1. Product and Company Identification

Product Name: **NEXT-HD PRO M**  
Identified Uses: Fluorinated Cleaning Solvent  
Manufacturer: Enviro Tech International, Inc.  
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Virgin Islands (800) 255-3924 INTERNATIONAL CALLS: +01-813-248-0585. Non-emergency number: +01-708-343-6641 (US)

### 2. HAZARD IDENTIFICATION

This product has no flash point and is non-flammable per OSHA and DOT regulations. This product does exhibit flammable limits in an estimated range of vapor to air concentration of 6.7% to 19% based on 1,2 trans-dichloroethylene.

**Signal Word:** **Danger**

#### Classification

Skin irritation	Category 2
Eye irritation	Category 2B
Specific target organ toxicity (single exposure) CNS	Category 3
Ingestion (Acute Toxicity)	Category 4
Aquatic Toxicity	Category 3

#### Hazard Statements

H332	Harmful if inhaled
H302	Harmful if swallowed
H313	May be harmful in contact with skin
H315	Causes skin irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.



#### Precautionary Statements

P102	Keep out of reach of children
P103	Read label before use
P233	Keep container tightly closed
P234	Keep only in original container
P202	Do not handle until all safety precautions have been read and understood
P262	Do not get in eyes, on skin, or on clothing
P271	Use in a well-ventilated area
P273	Avoid release to the environment
P261	Avoid breathing vapor/spray

P280 Wear protective gloves/eye protection/face protection  
 P281 Use personal protective equipment as required.  
 P403 + P233 Store in well-ventilated place. Keep container tightly closed

**Precautionary Statements**

P308 + P314 IF EXPOSED: Get medical advice/attention if you feel concerned.  
 P305 + P351 + P338 + P337 + P313 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.  
 P302 + P361 + P352 + P353 + P363 P333 + P313 IF ON SKIN: remove immediately all contaminated clothing. Wash with soap and water. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.  
 P304 + P340 + P342 + P311 IF INHALED: Remove individual to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
 P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P306 + P361 + P363 IF ON CLOTHING: Remove immediately all contaminated clothing. Wash contaminated clothing.

**Storage & Disposal:**

P403 + P235 + P404 + P233 Store in a well-ventilated place. Keep Cool. Store in a closed container.  
 P501 Dispose of contents/containers in accordance with all local/regional/national/international regulations.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	% by weight
1,2 trans-dichloroethylene	CAS 156-60-5	> 75 %
Proprietary Fluorinated Compound	Specific component is a Trade Secret - 920.1200(i)(1)	< 30 %
Methanol	CAS 67-56-1	4 %

**4. FIRST AID MEASURES**

Inhalation: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Get medical attention if any discomfort continues.  
 Ingestion: Do not induce vomiting. Never give liquid to an unconscious person.  
 Skin Contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.  
 Eye Contact: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

**5. FIRE FIGHTING MEASURES**

Flash point (° C): None - Mixture Tested ASTM 56  
 Flammable Limits: 6.7% to 19% (estimated based on 1,2 trans-dichloroethylene)  
 Extinguishing Media: Use extinguishing measures appropriate to local circumstances and surroundings.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.  
 Hazardous combustion products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases/vapors such as gaseous hydrogen fluoride.  
 Special Fire Fighting Procedures: Avoid breathing fire vapors. Keep run-off water out of sewers and water sources. Dike for water control.  
 Protective Equipment: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear protective clothing as described in Section 8 of this SDS.  
 Environmental Precautions: Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.  
 Spill Clean Up Methods: Provide ventilation and confine spill. Do not allow runoff to sewer. Dam and absorb spillage with sand, sawdust or other absorbent. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.  
 Reference to other Sections: Personal protection, see Sec. 8. Waste disposal, see Sec. 13.

## 7. HANDLING AND STORAGE

Handling: Avoid spilling, skin and eye contact. Avoid inhalation of vapors and spray mists. Use with sufficient ventilation. In use, may form flammable/explosive vapor-air mixture.  
 Storage: Store in tightly closed original container in a dry, cool and well-ventilated place

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Component	CAS/EC Number	Exposure Limits
1,2 trans-dichloroethylene	CAS 156-60-5	OSHA PEL 200 ppm ACGIH TLV 200 ppm
Proprietary Fluorinated Compound		50 ppm 8h-TWA Recommended
Methanol	CAS 67-56-1	OSHA PEL 200 ppm ACGIH TLV 200 ppm

**Engineering Controls:** Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Vapors are heavier than air. Use with adequate ventilation to prevent vapor buildup in low lying areas.

### Protective

Process Conditions: Provide eyewash, quick drench.  
 Respiratory Equipment: Suitable respiratory protection should be provided if exposure limits may be or are exceeded. Self-contained breathing apparatus (SCBA) is required if a large spill occurs.  
 Hand Protection: Always use Viton or neoprene gloves for long term protection. Nitrile gloves are acceptable only for splash protection.  
 Eye Protection: Wear approved safety goggles.  
 Hygiene Measures: When using do not eat, drink or smoke. Wear apron or protective clothing in case of splashes.

Skin Protection: Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color: Liquid, Colorless  
Boiling point:  
Specvific Gravity: 1.264 @ 25° C  
Flash Point: No flash point - Mixture tested ASTM 56  
Flammable/Explosion Limits: 6.7% / 19% - estimated based on 1,2 trans dichloroethylene

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions and recommended use. Forms an azeotrope and will not flash.  
Conditions to Avoid: Avoid heat, flames and other sources of ignition. Does not support combustion and will decompose when exposed to extreme conditions of heat at elevated temperatures, naked flames or incompatible materials.  
Materials to Avoid: Strong oxidizing substances. Incompatible with alkali or alkaline earth metals-powdered Al, Zn, Be, etc.  
Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides, hydrochloric and hydrofluoric acids, possibly carbonyl halides and other toxic gases or vapors.

## 11. TOXICOLOGICAL INFORMATION

### 1,2 trans-dichloroethylene

LD<sub>50</sub> Oral Rat: 1,235 mg/kg  
LD<sub>50</sub> Oral Mouse: 2,122 mg/kg Remarks: Behavioral: Altered sleep time/change in righting reflex  
Behavioral: Somnolence (general depressed activity).  
Behavioral: Ataxia.  
LC<sub>50</sub> Inhalation Rat: 24,100 ppm Remarks: Behavioral: Somnolence (general depressed activity).  
A 90 day inhalation study in rats reported no adverse effects on body weight, clinical observations, food consumption, clinical or anatomical pathology parameters, or liver cell proliferation and an NOEL of 4,000 ppm.  
LD<sub>50</sub> Dermal Rabbit: > 5,000 mg/kg Remarks: Prolonged skin contact may cause dermatitis.  
Skin Rabbit: Skin irritation - 24 h. Serious eye damage/eye irritation  
Eyes Rabbit: Eye irritation  
Carcinogenicity: Not listed in IARC, NTP or OSHA  
Mutagenesis: Not mutagenic to E-coli or S. Typhimurium when tested with microsomal activation. Did not produce mutations in Saccharomyces cerevisiae with or without microsomal activation. No genetic effects were reported in a vivo host mediated mutagenic assay.

Developmental Toxicity: In an inhalation study in rats, significant fetal toxicity was observed only at maternally toxic concentrations (12,000 ppm). Based on the results of this study, trans-1, 2-dichloroethylene would not be considered to be a developmental toxicant.

### Proprietary Fluorinated Compound

Oral LD <sub>50</sub>	Rat >2,000 mg/kg
Repeated Dose Oral Toxicity	NOEL 1,000 mg/kg/d (28 Day):
Inhalation LC <sub>50</sub>	Rat >24.8 mg/L (301 ppm)
Repeated Dose Inhalation Toxicity	NOEL 1,800 ppm. Rats exposed to 2,500 or 5,000 ppm for 6 hours per day for 5 days showed convulsions.
Repeated Dose Inhalation Toxicity	NOEL 1,000 ppm. Rats exposed to 1,000 ppm for 6 hours per day, 5 days per week for 90 days showed no adverse effects.
Dermal LD <sub>50</sub>	Rat >2,000 mg/kg
Skin and eye irritation:	Slight irritation to eye and mucous membranes
Skin irritation (rabbit):	None
Eye irritation (rabbit):	Slight
Sensitization: Skin (rat):	None
Genetic Studies: Ames Assay:	Negative (OECD 471 & 472)
Chromosomal Aberration Test:	Negative (CHL Cell) (OECD 473)
Carcinogenicity:	Not listed in IARC, NTP or OSHA

### Methanol

Oral LD <sub>50</sub>	Rat - male and female - > 1,187 - 2,769 mg/kg
Inhalation LC <sub>50</sub>	Rat - male and female - 4 h - 128.2 mg/l
Dermal LD <sub>50</sub>	Rabbit - 17,100 mg/kg
Skin corrosion/irritation	Rabbit. Result: No skin irritation
Eye damage/eye irritation	Rabbit. Result: No eye irritation
Respiratory or skin sensitization	Sensitization test: - Guinea pig. Result: negative (OECD 406)
Germ cell mutagenicity	Based on available data the classification criteria are not met. Ames test - Salmonella typhimurium - Result: negative Chinese hamster lung cells. Result: negative OECD 474 Mouse - male and female - Bone marrow. Result: negative OECD 474
In vitro cell gene mutation test	
Carcinogenicity	Did not show carcinogenic effects in animal experiments. IARC: No NTP: No OSHA: No
Reproductive toxicity	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure	Causes damage to organs.
Acute inhalation toxicity	Irritation symptoms in the respiratory tract.
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

## 12. ECOLOGICAL INFORMATION

### 1,2 trans-dichloroethylene

Invertebrate Toxicity:	<110,000 ug/L 48 hour(s) (Mortality) Water flea (Daphnia magna)
Persistence and degradability:	No data available
Bio accumulative potential:	No data available

Mobility in soil:	No data available
PBT & vPvB assessment:	Not conducted
USEPA SNAP:	Acceptable: Metals Cleaning, Electronics Cleaning, Precision Cleaning, Aerosol Solvents, Adhesives & Coatings Sectors
Global Warming Potential:	< 5 EPA-450-F-16-003 - Not listed as GWP in EU
VOC:	100%
Other adverse effects:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

### Proprietary Fluorinated Compound

Biodegradability:	Not biodegraded (OECD 301 C)
Bioaccumulation:	N/D
Activated Sludge Study:	>100 mg/L (OECD 209)
Fish Toxicity:	LC <sub>50</sub> (96 hr.) (Carp) >76 mg/L
Other Information:	Algal growth inhibition: ErC <sub>50</sub> >213 mg/L EbC <sub>50</sub> >213 mg/L
Mobility inhibition:	(Daphnia magna): 48hr-EC <sub>50</sub> >94 mg/L
USEPA SNAP:	Acceptable: Metals Cleaning & Precision Cleaning Sectors
Global Warming Potential:	580
VOC:	Excluded from the regulatory definition of VOC

### Methanol

Toxicity to fish LC <sub>50</sub>	Lepomis macrochirus (Bluegill) - 15,400.0 mg/l - 96 h (US-EPA)
Toxicity to daphnia and other aquatic invertebrates EC <sub>50</sub>	Daphnia magna (Water flea) - 18,260 mg/l - 96 h (OECD 202)
Toxicity to algae static test ErC <sub>50</sub>	Pseudokirchneriella subcapitata (green algae) - ca. 22,000.0 mg/l - 96 h (OECD 201)
Toxicity to bacteria static test IC <sub>50</sub>	Activated sludge - > 1,000 mg/l - 3 h (OECD 209)
Biodegradability	Readily biodegradable. (OECD 301D)
Biochemical Oxygen Demand	600 - 1,120 mg/g
Chemical Oxygen Demand	1,420 mg/g
Theoretical oxygen demand	1,500 mg/g
Ratio BOD/ThBOD	76 %
Bioaccumulation	Cyprinus carpio (Carp) - 72 d at 20 °C - 5 mg/l
Bioconcentration factor (BCF)	1.0
Mobility in soil	Will not adsorb on soil.
PBT/vPvB assessment	Not available
Additional ecological information	Avoid release to the environment.
Stability in water	83 - 91 % @ 19 °C- 72 h Hydrolyzes on contact with water. Hydrolyzes readily.

## 13. DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of waste and residues in accordance with federal, state and local authority requirements. Confirm disposal procedures with environmental engineer and local regulations. Do not allow runoff into sewer, waterway or ground. Do not reuse containers.

## 14. TRANSPORTATION INFORMATION

General: Not hazardous for transportation per USA DOT regulations.  
 Proper Shipping Name: Fluorinated Precision Cleaning Solvent

## 15. REGULATORY INFORMATION:

USEPA SNAP - Mixture:	All compounds approved
Global Warming - Mixture:	204.5
VOC - Mixture:	986 g/L
<b>1,2 trans-dichloroethylene</b>	
USA TSCA:	Listed in Inventory. Active.
USA HAP:	Not Listed.
USA SARA 302:	Not subject to the reporting requirements,
USA SARA 304:	N/A
USA SARA 313/312:	Hazards: Serious eye damage or eye irritation.
USA SARA 313:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.
RCRA Sec. 3001 Haz. Waste:	Listed. U079, FO24 and F025 (40 CFR 261.33)
USA CERCLA:	Reportable quantity - 1,000 LBS (454 kgs).
Safe Drinking Water Act:	NPDWR: MCLG - 100 ppb MCL of 100 ppb
Clean Water Act Section 307(a)(1) :	Listed as toxic pollutant. Subject to effluent limitations.
Clean Water Act Section 304:	Included in the list of total toxic organics (TTO) (40CFR 413.02(I)).
USEPA SNAP:	Acceptable: Metals Cleaning, Electronics Cleaning, Precision Cleaning, Aerosol Solvents, Adhesives & Coatings Sectors. ODP - 0.00024
State Right To Know:	Massachusetts, Pennsylvania, New Jersey
California List of Hazardous Substances:	Listed
State Air Regulations Allowable Ambient Levels:	New Hampshire (Env-A 1400: Regulated Toxic Air Pollutants).
Chemicals of High Concern to Children:	Rhode Island (Air Pollution Regulation No. 22)
California's Safer Consumer Products Program:	Minnesota (Toxic Free Kids Act Minn. Stat. 116.9401 to 116.9407).
California Bio-monitoring:	Listed as candidate chemical (2019)
Massachusetts Toxic Use Reduction Act (TURA):	Designated priority chemical for biomonitoring (2019).
ROHS <sub>3</sub> :	Listed
EU REACH:	Complies
Europe EINECS:	EC 205-860-2
Canada DSL:	Listed in inventory
Canada WHMIS:	Listed in Inventory
Canada CEPA:	B2, D2B. Not listed on Ingredient Disclosure List
Australia AICS:	Not Listed
Korea KECI:	Listed in Inventory
Japan ENCS:	Listed in Inventory
Philippines PICCS:	Not Listed.
<b>Proprietary Fluorinated Compound</b>	
USA TSCA:	Listed in Inventory. Active. Subject to SNUR - Requirements as specified in § 721.80 (f), (j) (cleaning electronic components; precision cleaning; dewatering of

USA SARA 313/312:	electronic components and other parts following aqueous cleaning; and carrier/lubricant coating for hard disk drives and other precision parts). 40 CFR 721.10549.
USA SARA 302:	Subject to export reporting.
USA SARA 304:	Not subject to the reporting.
USA CERCLA:	N/A
USA RCRA:	Not regulated.
USEPA SNAP:	N/A
GLOBAL WARMING:	Acceptable: Metals Cleaning & Precision Cleaning
California Prop 65:	GWP: 580
ROHS <sub>3</sub> :	Not Listed.
Canada DSL:	Complies.
REACH:	Listed in Inventory.
EU EINECS/ELINCS:	Listed in Inventory.
EU ENCS:	Listed in Inventory.
EU F-GAS:	Subject to Reporting.
China IECSC:	Listed in Inventory.
Korea KECI:	Listed in Inventory.
Philippines PICCS:	Listed in Inventory.
Australia AICS:	Does not comply.

**Methanol**

USA TSCA:	Listed in Inventory. Active.
USA HAP:	<b>Yes</b>
USA SARA 302:	Not subject to the reporting requirements,
USA SARA 304:	N/A
USA SARA 313/312:	Hazards: Serious eye damage or eye irritation.
USA SARA 313:	Subject to reporting levels.
RCRA Sec. 3001 Haz. Waste:	Waste code U154
USA CERCLA:	Reportable Quantity 5,000 lbs
USEPA SNAP:	Acceptable
California PEL:	200 ppm
California Prop 65:	Known to the State of California to cause birth defects or other reproductive harm
State Right To Know:	Massachusetts, New York, New Jersey, Pennsylvania
ROHS <sub>3</sub> :	Complies
Australia:	This material is listed or exempted.
Canada:	This material is listed or exempted.
China:	This material is listed or exempted.
Europe:	This material is listed or exempted.
Japan ENCS/ISHL:	This material is listed or exempted.
Republic of Korea:	This material is listed or exempted.
Malaysia:	This material is listed or exempted.
New Zealand:	This material is listed or exempted.
Philippines:	This material is listed or exempted.
Taiwan:	This material is listed or exempted.
Turkey:	This material is listed or exempted.

## 16. OTHER INFORMATION

Only trained personnel should use this material. Since empty containers retain product residue, follow label warnings, even after container is emptied. Each user of this product should study this SDS carefully and consult appropriate expertise as necessary to become aware of and understand the data contained in this SDS and any hazards that may be associated with this product. The information provided in this Safety Data Sheet relates only to the specific material designated herein. The user is responsible for determining the conditions of safe use of this product and for complying with all Federal, State and Local governmental laws and regulations concerning its use. Enviro Tech International, Inc. makes no warranty, express or implied, including the warranty of merchantability and fitness for a particular purpose, and assumes no liability or responsibility for the accuracy, completeness, timeliness or usefulness of this information. Enviro Tech International, Inc assumes no liability for any damages incurred, whether directly or indirectly, as a result of any errors, omissions or discrepancies in this information. Enviro Tech International, Inc. assumes no liability for reliance on this data and assumes no liability for damages related to the use or misuse of this product.

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