

NEXT HD Pro 20

SAFETY DATA SHEET

Preparation Date: February 14, 2024 Revision 2 Replaces February 1, 2023

1. Product and Company Identification

Product Name: **NEXT HD Pro 20**
Product Description: Fluorinated Precision Cleaning Solvent Mixture. **FOR INDUSTRIAL USE ONLY. NOT FOR CONSUMER USE OR SALE.**
Manufacturer: Enviro Tech International, Inc.
1800 N. 25th Ave.
Melrose Park, IL 60160 www.envirotechint.com
Contact Person: sales@envirotechint.com
Emergency Contact: Velocity EHS 24-HR EMERGENCY U.S, Canada, Puerto Rico, U.S. 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 but may exhibit flammable limits in an estimated range of vapor to air concentration of 6.7% to 18% 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.

Response

- 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
P306 + P361 + P363 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. 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	> 25 %
	EC 205-860-2	
Proprietary Fluorinated Compound	Trade Secret - 1920.1200(i)(1)	< 83 %

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 (0 C): Mixture Tested ASTM 56 - None
- Flammable Limits: 6.7% to 18% vapor/air concentration (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	
Proprietary Fluorinated Compound	EC 205-860-2 OSHA PEL	200 ppm ACGIH TLV 200 ppm 50 ppm 8hr -TWA (MREL)

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.
 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.
 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.
 Eye Protection: Wear approved safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color:	Liquid, Colorless.
Odor:	Characteristic
Flash Point:	None. ASTM 56
Flammable/Explosion Limits:	6.7% / 19% - estimated based on 1,2 trans dichloroethylene
Specific Gravity (25° C ± 5° C, H ₂ O = 1):	1.427 @ 25° C
Boiling Point:	41.5° C

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:	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 ₅₀ Oral	Rat:1,235 mg/kg
LD ₅₀ Oral	Mouse: 2,122 mg/kg Remarks: Behavioral: Altered sleep time/change in righting reflex. Behavioral: Somnolence (general depressed activity). Behavioral: Ataxia.
LC ₅₀ 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 ₅₀ Dermal	Rabbit: > 5,000 mg/kg Remarks: Prolonged skin contact may cause dermatitis.
Skin	Rabbit: Skin irritation - 24 hr.
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 ₅₀	Rat >2,000mg/kg
Repeated Dose Oral Toxicity	NOEL 1,00 mg/kg/d (28 Day)
Inhalation LC ₅₀	Rat >24.8mg/L (301 ppm)

Repeated Dose Inhalation Toxicity (5 day):	NOEL 1,800 ppm Rats exposed to 2500 or 5000 ppm for 6 hours per day for 5 days showed convulsions.
Repeated Dose Inhalation Toxicity (90 day):	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 ₅₀	Rat >2,000mg/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

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:	>100mg/L (OECD 209)
Fish Toxicity:	LC ₅₀ (96 hr.) (Carp) >76 mg/L
Other Information:	Algal growth inhibition: ErC ₅₀ >213mg/L EbC ₅₀ >213mg/L
Mobility inhibition:	(Daphnia magna): 48hr-EC ₅₀ >94mg/L
USEPA SNAP:	Acceptable: Metals Cleaning & Precision Cleaning Sectors
Global Warming Potential:	580
VOC:	Exempt from the regulatory definition of VOC

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:	This product is not regulated for transportation per DOT regulations.
Proper Shipping Name:	Fluorinated Precision Cleaning Solvent

The above transportation information is valid as of the date of publication of this SDS. Given that regulatory changes are made on an ongoing basis, ETI recommends checking new transportation regulations regularly.

15. REGULATORY INFORMATION

GWP NEXT HD Pro 20 Mixture: 464

1,2 trans-dichloroethylene

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. Specific target organ toxicity (single or repeated exposure)
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). Rhode Island (Air Pollution Regulation No. 22) Chemicals of High Concern to Children: Minnesota (Toxic Free Kids Act Minn. Stat. 116.9401 to 116.9407).
California's Safer Consumer Products Program:	Listed as candidate chemical (2019)
California Bio-monitoring:	Designated priority chemical for biomonitoring (2019).
Massachusetts Toxic Use Reduction Act (TURA):	Listed
ROHS ₃ :	Complies

International

Europe EINECS:	Listed in inventory
Canada DSL:	Listed in Inventory
Canada WHMIS:	B2, D2B. Not listed on Ingredient Disclosure List
Canada CEPA:	Not Listed
Australia AICS:	Listed in Inventory
Korea KECI:	Listed in Inventory
Japan ENCS:	Listed in Inventory

Proprietary Fluorinated Compound

USA TSCA:	Listed in Inventory. Active. Subject to SNUR - Requirements as specified in § 721.80 (f), (j) (cleaning electronic components; precision cleaning; dewatering of electronic components and other parts following aqueous cleaning; and carrier/lubricant coating for hard disk drives and other precision parts) 40 CFR 721.10549. Export reporting to USEPA required.
USA SARA 313/312:	Not subject to the reporting.
USA SARA 302:	Not subject to the reporting.
USA SARA 304:	N/A
USA CERCLA:	Not regulated.
USA RCRA:	N/A
USEPA SNAP:	Acceptable
GLOBAL WARMING:	GWP: 580
USA VOC Exempt:	Yes.
California Prop 65:	Not Listed.
ROHS ₃ :	Complies.

International

Canada DSL:	Listed in Inventory.
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.

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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