Vetro Power NANO-EVERO Dry Plate UV PCB Protection

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product name : Vetro Power NANO-EVERO Dry Plate UV PCB Protection
Product code : -

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Identified uses: UV PCB

1.3. Details of the supplier of the safety data sheet

ZYAX CHEM PVT LTD
3rd Floor, Kamer Building,
38 Cawasji Patel Street, Fort,
Mumbai - 400001, India.
Contact No: +91 8779240420
info@zyax.in - www.zyax.in

1.4. Emergency telephone number

Emergency number : +91 22 2757 3899

SECTION 2. COMPOSITION / DATA ON COMPONENTS:

2.1. Chemical characterization

Preparation made of anticorrosive additives, and dearomatized paraffinic and naphthenic heavy hydrocarbons.

2.2. Components

CAS-Number	Hazard components	Symbols	Concentration in %	Risk phrases
64742-48-9	Hydrocarbons,heavy,	C10-C13, n-alkanes	< 5-50	H226 H304,H335,H336

SECTION 3. HAZARDS IDENTIFICATION:

3.1. Hazard designation

Danger, flammable
Information pertaining to particular dangers for man and environment: The product has to be labelled due to the calculation procedure of the,General Classification guideline for preparations of the EU" in the latest valid version.

3.2. Classification system

This product is not classified as an environmental hazard according to CLP criteria.

SECTION 4. FIRST AID MEASURE:

4.1. After inhalation

No treatment necessary under normal conditions of use.

4.2. After skin contact

Wash intensively with water and soap. Use protective skin ointment. If skin irritation continues, consult a doctor.

4.3. After eye contact

Rinse opened eyes for several minutes under running water. Then consult the doctor.

4.4. After swallowing

Call the emergency number for your location / facility. If swallowed, do not induce vomiting: transport to the nearest medical facility for additional help.

SECTION 5. FIRE FIGHTING MEASURES:

5.1. Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

5.2. For safety reasons unsuitable extinguishing agents

Water

5.3. Special hazards caused by the material, its products of combustion or resulting gases

Can form explosive gas-air mixtures.
Fire can cause release of: Carbon monoxide (CO) Carbon dioxide (CO2)

5.4. Protective equipment

Wear self-contained breathing apparatus. Wear a full protective suit.

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5.5. Additional Information

Cool endangered containers with water spray.

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SECTION 6. ACCIDENTAL RELEASE MEASURES:

6.1. Person-related safety precautions

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Avoid contact with the eyes and skin. Do not breathe fumes/aerosol.

6.2. Measures for environmental protection

Do not allow water to enter the ground/soil. Do not allow products to reach sewage system or water bodies. Dilute with much water.

6.3. Measures for cleaning/collecting

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Dispose of contaminated material as waste according to item 13.

SECTION 7. HANDLING AND STORAGE:

7.1. Handling

7.1.1 Information for safe handling :
Keep away from heat and direct sunlight. Use only in well ventilated areas. Ensure good interior ventilation, especially at floor level. (Fumes are heavier then air). Use the material only at places where open light, fire and other ignition sources are kept away.

7.1.2 Information about protection against explosions and fires :
Keep ignition sources away – Do not smoke. Protect against electrostatic charges.

7.2. Storage

7.2.1 Requirements to be met by storerooms and containers :
Store in cool location. Observe official regulations on storing packagings with pressurized containers.

7.2.2 Information about storage in one common storage facility : Not required.

7.2.3 Further information about storage conditions : Store in a cool place. Heat will increase pressure and may lead to the container exploding. Store in cool, dry conditions in well sealed containers.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

8.1. Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

Components	CAS-Nr.	Value type	Control parameters	Basis
Dearom. Mineral. spirits 100-140		TWA	1050 mg/m³	EU HSPA

Biological occupational exposure limit values not available.
Additional information: The lists that were valid during the compilation were used as basis.

8.2. Personal protective equipment

8.3. General protective and hygienic measures:

The use and choice of Personal Protection equipment is related to the hazard of the product, the workplace, and the way the product is handled. In general, we recommend as a minimum safety precaution that safety glasses with side-shields and workclothes protecting arms, legs and body be used. In addition, any person visiting an area where this product is handled or processed should at least wear safety glasses with side- shields.

Special advice : Based on and limited to experience of this product as such, the following special advice is believed to provide satisfactory protection for the industrial user or handler.

Respiratory protection :Where concentrations in air may exceed the limits given in this section, it is recommended to use a half face filter mask to protect from overexposure by inhalation.Suitable filter material depends on the amount and type of chemicals being handled in the workplace, but filter material of type “A” or similar may be considered for use.

Protection of hands : When handling this product, it is recommended to wear chemical resistant gloves. The choice of suitable protective gloves depends on work conditions and what chemicals are handled, but we have positive experience with gloves made of Nitrile. Gloves should be replaced immediately if signs of degradation is observed.

Eye protection : See general advice

Body protection : See general recommendation

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1. General Information

Form : Liquid
Colour : Orange- yellowish
Odour : Characteristic

9.2. Change in condition

Freezing point rage :	-22°C - -5°C
Melting point/Melting range :	---
Boiling point/Boiling range :	Typical 179 - 213,9 °C
Flashpoint :	> 69°C
Ignition temperature :	n.a

9.3. Self-inflammability : Product is not selfigniting

9.4. Critical values for explosion :

Lower : 0,8 Vol %
Upper : 6 Vol %

9.5. Density at 20 °C : 0,82 g/cm3

9.6. Solubility in / Miscibility with Water :Not mixable or difficult to mix and to 100 % in organic solvent

9.7. Additional information : ---

SECTION 10. STABILITY AND REACTIVITY:

10.1 Hazardous polymerisation : No

10.2. Conditions to avoid polymerisation : Not applicable

10.3. Materials and conditions to avoid (Incompatibility) : Not applicable

SECTION 11. TOXICOLOGICAL INFORMATION:

11.1. Acute toxicity

LD50 oral : > 2.000 (rat)

LDLOdermal : -

LC50 inhal. : -

Inhalation : Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness are anesthetic and may have other central nervous systems effects.

On the skin : Low odor of toxicity. Frequent or prolonged contact may defeat and dry the skin, leading to discomfort and dermatitis.

On the eye : Irritating, but does not injure eye tissue.

11.2. Ingestion

Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema.

11.3. Additional toxicological information: Additional information is available on special request.

SECTION 12. ECOLOGICAL INFORMATION:

Ecotoxical effects:
Remark : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

General notes : Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS:

13.1. Product

Recommendation : Must not be disposed of together with household garbage. Do not allow product to reach the sewage system. Must be specially treated under adherence to official regulations. Dispose of in accordance with local regulations.

Waste disposal key number : The waste disposal key number has to be classified according to the European waste catalogue corresponding to the branch of industry and processing of the product.

13.2. Uncleaned Packagings

Recommendation : Packagings have to be emptied completely. Remains of product can cause an explosion. Do not perforate, cut up or weld uncleaned packagings. Bring packagings to a reconditioning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

13.3. Additional information : The waste category of this product is 14 06 33 (another solvent and solvent mixtures).

SECTION 14. TRANSPORT INFORMATION:

Land transport ADR/RID/GGVS/GGVE (cross-border/domestic)
ADR/RID-GGVS/E Class : Flam. Liq. 3;
Classification Code : F1
UN-Number : 3295
Packaging group : II
Label : 3
Designation of goods : 3295

Maritime transport IMDG/GGVSee
UN-Number : 3295
IMDG/GGVSea-Class : 3
Label : 3
Packaging group : II
EMS-Number : F-E, S-D
Correct technical name : Hydrocarbons, liquid, N.O.S. (Isohexanes and N-Hexane), 3 PG II

Air transport ICO/IATA
UN-Number : 3295
ICAO/IATA-Class : 3
Label : 3
Packaging group : II
Correct technical name : Hydrocarbons, liquid, N.O.S. (Isohexanes and N-Hexane), 3 PG II

SECTION 15. REGULATORY INFORMATION:

Hazard Identification Number :

Risk phrases : H226 Flammable liquid and vapour
H304 May be fatal if swallowed and enters air
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

Safety phrases : P102 Keep out of the reach of Children
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P310 Do NOT induce vomiting

Other hazards: May form flammable/explosive vapour-air mixture. This material is a static accumulator.

SECTION 16. FURTHER INFORMATION:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Library of Risk phrases listed in this document
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

DEPARTMENT ISSUING DATA SPECIFICATION SHEET: LOGISTICS-TECHNOLOGY-SAFETY

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CAS: Chemical Abstract Service NA: Not Applicable
CFR: Code of Federal Regulations ND: Not Determined
DOT: Department of Transportation NIOSH: National Institute of Occupational Safety & Health
DSL: Domestic Substance List NFPA: National Fire Protection Association
g/L: grams per Liter NTP: National Toxicology Program
HMIS: Hazardous Materials Identification System OSHA: Occupational Safety and Health Administration
IARC: International Agency for Research on Cancer PMCC: Pensky-Martens Closed Cup
IATA: International Air Transport Association PPE: Personal Protection Equipment
ICAO: International Civil Aviation Organization ppm: Parts per Million
IMDG: International Maritime Dangerous Goods RoHS: Restriction of Hazardous Substances
IMO: International Maritime Organization STEL: Short Term Exposure Limit
lbs./gal: pounds per gallon TCC: Tag Closed Cup
LC: Lethal Concentration TWA: Time Weighted Average
LD: Lethal Dose WHMIS: Workplace Hazardous Materials Information System