

ED I Product Details and company information:

- **Brand Name:** **ORION PRO DRAIN CLEANER**
- **Application of the product:** Enzyme based Drain Cleaner to digest Fats, oils & prevent drain clogging.
- **Company** : **HNW GLOBAL PRIVATE LIMITED**
 33 C, Mahila Udyami Park-II, Ecotech-III, Greater Noida, Uttar Pradesh-201308 (India)
- **Information department:** HNW Global Private Limited, 33 C, Mahila Udyami Park-II, Ecotech-III, Greater Noida, Uttar Pradesh-201308 (India)
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ED II Hazards identification

- **Category:** Partially harmful as per the classification systems of EC guidelines. ·
- **Environmental & Human hazards:** Not classified
- **Standards & System:** The standard complies with current EC regulations on solvent preparations and hazardous substances.

EH III Composition / Information on ingredients:

- **Chemical Properties***
- **Description:** Water base solution of not dangerous ingredients and substances is listed below.

Ingredient(s)	CAS number	Percent
Proprietary Blend	NA	10-20%
Ethoxylated Alcohol	34398-01-1	15-35%
Other ingredients determined not to be hazardous.	NA	30-40%

*Chemical Abstract Service (CAS)

*European Inventory of Existing Commercial Substances (EINECS)

ED III Composition / Information on ingredients:

• **Ingredients as per EC Detergents Regulation 648/2004**

Nonionic Surfactants	0.1-2 %
Formaldehyde and added fragrances	<0.5%

Noteworthy information: The full text of the relevant risk phrases is given in section ED16 & reference also available in Risk & Safety Statement Annexure as per details enclosed with this MSDS.

ED IV First aid measures

- **Basic information:** No special measures required.
- **Eye contact:** Wash immediately with adequate amount of water.
- **Swallow:** Rinse out mouth and then drink one or two glasses of water or milk if available.
In case of persisting manifestation seek medical attention & checkup.
- **Inhalation:** Cover or remove from source of exposure. Seek medical attention & checkup if symptoms persist.
- **Skin contact:** Wash affected area with adequate amount of water, however no special measures required.

ED V Fire fighting measures

- **Flammability:** Non-Flammable.
- **Recommended extinguishing options:** Water spray or CO2 or extinguishing powder. Larger fires exigencies can be controlled with water jet or foams with alcohol-resistance.
- **Protective equipment:** PPE recommended however no special measures required.
- **Protection of personnel:** Important however not essential.

ED VI Accidental release measures (& Environment Impact)

- **Environmental precautions:** Do not permit uncontrolled disposal in natural water bodies.
- **Refer Risk & Safety Statement Codes:** Annexure enclosed in the MSDS for Safety Codes and abide to precautions as per Risk Codes
- **Method of disposal:** If spilled, it absorbs best with liquid-binding materials namely sand, sawdust, universal binders etc. Dispose of the collected material according to the regulations and responsibly.
- **Precautionary Additional information:** 10X or adequate dilution recommended before routine disposal
- **Safety information:** No toxicants are released.
- **Protection of personnel:** Important however not essential.

ED VII Handling and storage

- **Handling (also refer ED VIII and ED XV)**
- **Information for safe handling:**

Adequate ventilation/exhaustion recommended at the workplace.

Avoid aerosol formation
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:** Store upright in original closed containers
- **Essential Requirements: Store** In cool dry place.
- **For storage rooms and containers:** No specific requirements.
- **Storage in one common storage facility:** Not Essential.
- **Other information about storage conditions:** None.

EG VIII Exposure controls and personal protection

- **For comprehensive support information pertaining to design of technical systems:**

Limited information exist; refer section ED VII.
- **Components with limit values that require monitoring at the workplace:**

This product is environment safe at large and does not contain any relevant quantities of content and chemicals with critical values that have to be observed at the desired premise or workplace.
- **Personal Protection Equipment (PPE):**
- **Safety & Hygiene Measures:**

Avoid inhalation of fumes. Face mask use recommended. For personal safety DRAIN P can be used safely used in adequately ventilated premises.
- **Breathing equipment:**

Personal protection is always a safety measure while working with cleaning and avoid inhalation of dust, vapor or fumes.
- **Protection of hands:**

Rinse and dry hands after use. For prolonged contact, safety gloves & glasses protection for the skin & eyes may be necessary.
- **Eye protection:**

Safety glasses may not be normally required. Though, their use is always recommended, especially in such cases where handling the concentrated solvent involves a risk of fumes or splash.
- **Spill Controls:**

In the event of spillage, Spill Kits and Spill Clean Up Procedures should be adhered. Spill kits which are appropriate for the type of materials used for such events. Typical spill kits contain sorbent materials for acids, bases, and solvents. Spill kits for specific materials such as for mercury or hydrofluoric acid may not be required for this solvent.

ED IX Physical and chemical properties:

- **General information:**

Form: Liquid

Colour: Transparent

Odour: Fermented odour

- **Boiling & Melting Point**

Boiling point/Boiling range: Approx 100°C

Melting point: 0°C

- **Danger of explosion:** Concentrated and diluted product is not explosive

- **Density at 25°C:** 0.9 - 1.02 g/cm³

- **Flash point:** NA

- **pH-value (1% sol.):** 4 - 5.5

- **Solubility in / Miscibility with Water:** Fully miscible

- **Spontaneous combustion:** Product is not self-combustible

ED X Stability and reactivity

- **Hazardous reactions:** None of the hazardous reactions known so far.

- **Hazardous product's conditions:** None of hazardous product's conditions known.

Refer EBL III and Risk & Safety annexures

- **Decomposition due to heat production/Conditions to be avoided:** There is no decomposition if product is used as per specifications.

ED XI Toxicological information

- **Acute toxicity:**

- **Lethal Dose LD50 (oral):** As per the toxicological classification the LD50 (oral) is estimated to be >40 mg/kg.

- **Biological Primary irritant effect:**

- **Consumption/Ingestion:** Can't be harmful unless excessive amount is consumed.

- **Eye contact:** Unlikely to be irritating in normal use.

- **Inhalation:** Prolonged inhalation may cause nausea.

- **Skin contact:** Unlikely to be irritating in normal use.

- **Toxicological information:** The product does not fall in the scope of labelling requirements for toxicological characteristics or human health effects as per the EC Dangerous Substances and Preparations Directives. When used and handled according to instructions, the product is unlikely to have any harmful effects.

ED XII Ecological information:

- Do not allow undiluted product to reach sewage system.
- If product is used for its intended purpose this product should not cause any adverse ecological disturbances effects in the environment.

ED XIII Disposal considerations

- **Recommendation:**
Prohibit the concentrate disposal directly into any Water body or sewage system.
- **Cleaning agent:** Water is necessary as recommended cleaning agent.
- **Packaging's Residue:** Dispose-off as per official regulations and guidelines.
- **Ideally this product should not be disposed of together with domestic waste.**

EG XIV Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID Class:** Not classified
- **Maritime transport IMDG:**
- **IMDG Class:** Not classified
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO / IATA Class:** Not classified
- **Transport / Additional Information:** Non-dangerous according to ICAO/IATA regulations.

ED XV Regulatory information

- **According to EC guidelines:**
Non-dangerous as per the norms of the implied EC Directives.
- **Risk Phrases:**
R22 Harmful if swallowed.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
- **Safety phrases:** Refer risk and safety statement code annexure
S23 Do not breathe spray.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **Safety indications on the label:**
Rinse and dry hands after use. For prolonged contact protection for the skin is recommended and PPE may be necessary. Safety data sheet inputs shared for professional use.

Annexure

ED XVI Other Information

- The information in this document is based on our best available knowledge. However, it does not assure a guarantee for any specific product features and does not establish a legally binding contract.

ADR and RID stands for the European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR). ADR(formally, the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)) is a 1957 United Nations treaty that governs trans-national transport of hazardous materials. "ADR" is derived from the French name for the treaty

The International Maritime Dangerous Goods or IMDG Code was adopted in 1965 as per the SOLAS (Safety for Life at Sea) Convention of 1960 under the IMO. The IMDG Code was formed to prevent all types of pollutions at sea. The IMDG code also ensures that the goods transported through seaways are packaged in such a way that they can be safely transported. The dangerous goods code is a uniform code.

ICAO (International Civil Aviation Organization) codes are used for "official" purposes of Air Traffic Control & global SOPs adherence. **IATA** (International Air Transport Association) is a trade association that focusses on making air traffic businesses safe, secure, reliable and efficient.

* In case of local regulation change or formulation change this MSDS may undergo revision before the stated revision date.

Department issuing material safety data sheet:

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