

1. Product and Company Identification :-

- Product identifier Trade name → **ONYFLOW DR 7432**
- Recommended use of the chemical and restrictions on use Recommended use(s) → Drag reducing Agent
- Details of the supplier of the Safety Data Sheet.
- **ONNYYX PETROCHEM PVT.LTD**
- **Corporate office:-Opp. 9 B.R.D., 46/6, Poona Nagar Road, Chandan Nagar, PUNE - 411014. INDIA.**
- **Site:- Plot No. 290/2, Phase 2, N/R Sardar Chowk, GIDC, VAPI- 396195- INDIA**

2. Composition/information on ingredients:-

Sr #	Component	CAS-No.	Content	Hazard class / Hazard category / Hazard statement
1	Alpha Olefin polymer	trade secret	10-30 %	Not applicable.
2	PMA polymer	trade secret	10-25 %	Not applicable.
3	Vegetable oil	Proprietary	40-70 %	Not applicable.
4	Co-Solvent proprietary	Proprietary	10-30 %	Not applicable.
5	Pour point modifier	Proprietary	2 - 15 %	Not applicable.
6	Stabilizer	Proprietary	0.5 to 5 %	Not applicable.
7	Other additive	Proprietary	0.5 to 2 %	Not applicable.

3. Hazards identification:-

- Classification of the substance or mixture:-
- No carcinogenic effect has been observed. This product is not considered to be a hazardous substance or mixture when classified in accordance with Regulation 29 CFR 1910.1200 (US GHS).
- No Mutagenic effect has been observed. Classification according to Regulation:- This product is not considered to be a hazardous substance or mixture when classified in accordance with Regulation 29 CFR 1910.1200 (US GHS).
- No reproduction Toxicity effect has been observed.
- Label elements Remarks:-
No labelling is required under Regulation 29 CFR 1910.1200 (US GHS).
- Other hazards → none known.

4. Description of first aid measures:-

- General advice:-

The rescuer should always protect them from exposure prior to beginning rescue or first aid measures.

- Inhalation :-

If inhaled, remove to fresh air. If symptoms persist, consult a physician for treatment.

- Skin contact :-

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Obtain medical attention immediately if symptoms occur. Wash clothing before reuse.

- Eye contact :-

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

- Ingestion :-

If swallowed, only induce vomiting if directed by medical personnel. Get medical attention. Never give anything by mouth to an unconscious person.

- Important symptoms and effects:-

Both acute and delayed Product has dermal fatting Effect. Indication of any immediate medical attention and special treatment needed.

5. Fire-fighting measures:-

- **Fire and Explosion Hazards:** -Combustible liquid and vapor. If heated above the flash point this product will release flammable vapors and burn vigorously. Mists and sprays may be flammable at temperatures below the flash point. Vapors are heavier than air and will flow along surfaces to remote ignition sources and flash back. Flammable vapors may collect in low areas.
- **Extinguishing Media:** - Use carbon dioxide (CO₂), dry chemical, and foam or water fog.
- **Unsuitable Extinguishing Media:** - Do not use water jet as that may spread the fire.
- **Special Protective Equipment for Fire Fighters:** - Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Prevent mixing with alkali and amines materials.
- **Further Information:** - Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken
- Involving a personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Do not allow fire extinguishing water to contaminate surface or groundwater systems.

6. Accidental release measures:-

- **Personal Precautions:** - Clean-up to spillage with cleaning cloths or absorbent paper, precaution is necessary.
- **Advice for Non-emergency Personnel:** - Evacuate the danger zone; follow emergency precautions. Secure emergency assistance immediately. Avoid contact with the material, do not breath dusts. If possible, provide additional ventilation.
- **Advice for Emergency Responders:-** Do not take action without proper training and emergency equipment. See Section 8 for additional information. Evacuate surrounding areas. Eliminate all ignition sources including flares and all open flames. Avoid all contact with spilled material. Maintain adequate ventilation and wear appropriate respiratory protection.
- **Environmental Precaution:-** Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid large quantities entering drains or water ways;
- **Methods and Materials for Containment:** - Stop spill if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, surface waters, basements or confined areas. Wash spillage into effluent treatment plant. Contain and collect spillage using appropriate personal protective equipment. Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handing chemical products or if a risk assessment indicates this is necessary. Collect and contain spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in a container for disposal according to local regulations. Use spark-proof tools and explosion proof equipment if flammable gasses, liquids or vapours are present in the spill area. Contaminated absorbent material may pose the same hazard(s) as the spilled product.

7. Handling and storage:-

- **Precautions for Safe Handling:-** Observe all label precautions. Use appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest.
- Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
- **Advice on Protection Against Fire and Explosion:-** Keep away from flames and sources of ignition – including static.
- **Conditions for Safe Storage, Including Any Incompatibilities:-** Store in accordance with local regulations. Store in a segregated and approved area. Store in original or bulk storage container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials, amines and alkalis. Bulk storage should be in approved vessels, preferably steel that is grounded and vented. Keep use containers tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection:-

- **Control Parameters:** - Personal, workplace or environmental monitoring may be necessary to ensure exposures are below recommended and legal limits.
- **Exposure Limits:-** OSHA (US), Mexico, and EU have not developed specific exposure limits. Nuisance dust exposure limits are 100mg/m³ and 30 mg/m³ for respirable particles (8 hr TWA). Use recommended safe handling practices to minimize unnecessary exposure.
- **Exposure Limits for Chemicals Which May Be Generated During Processing:-** During processing residual vinyl acetate may be released into the work environment. Maintain ventilation to ensure exposure limits are below 10 ppm TWA 8 hr and 15 ppm STEL 15 min (US); 5 ppm TWA and 10 ppm (EU). Vinyl acetate is classified as A3 carcinogen (animals).
- **Exposure Controls:-** Engineering measures: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits.
- **Individual Protection Measures:-** Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Discard contaminated clothing or wash thoroughly before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- **Eye/Face Protection:** - Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to product dusts, liquid splashes or mists. Goggles should be worn where eye contact is possible.
- **Hand Protection:** - Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is required.
- **Glove Material:-** Cotton or plastic (thermal resistant) Glove Thickness: 0.7 mm or thicker Break Through Time: > 240 minutes.
- **Other Protective Equipment:** - Flame retardant antistatic protective clothing may be required if used in areas where flammables are processed.
- **Respiratory Protection:-**A properly fitted air purifying respirator or air supply respirator should be worn if a risk assessment indicates that respiratory protection is necessary. Respirator selection must be based upon known or measured levels of exposure.
- **Environmental Exposure Controls:-**Ventilation and engineering controls to protect workers and ventilate work area to at or below recommended employee exposure levels. Technical measures are preferred over use of personal protective equipment. Environmental controls, such as scrubber or thermal oxidizer may be required to prevent process releases to the atmosphere. Do not empty or flush into drains.

9. Physical and chemical properties:-

Information on basic physical and chemical properties

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|-----------------------------|-------------------------------------|
| • Colour | → White to Yellowish |
| • Physical Form | → Liquid |
| • Specific Gravity at 25°C | → 0.87 to 0.92 gm/cm ³ . |
| • Flash point | → > 60 °C (ASTM D 3278) |
| • Evaporation rate | → No data available |
| • Vapour Density: - | → Not applicable |
| • OSHA Flammability Class:- | → Not applicable |
| • LEL : - | → Not applicable |
| • UEL :- | → Not applicable |
| • Auto Ignition: - | → Not Applicable |
| • Viscosity at 40 °C : - | → 30-150 cst. |

10. Stability and reactivity:-

- **Stability:-**
This material is considered stable under specified conditions of storage, shipment and/or use.
- **Reactivity:-**
No hazardous reactivity.
- **Possibility of hazardous reactions:-**
Product will not undergo polymerization at Processing Temperature.
- **Conditions to avoid:-**
Avoid dust-air mixtures, static generation. Avoid contact with incompatible materials .
- **Incompatible materials:-**
Thermal decomposition will yield oxides of carbon and/or acetic acid
- **Hazardous decomposition products:-**
None when used as directed.
- **Under conditions of thermal decomposition:-**
Methacrylates, when overheated

11. Toxicological information :-

- **Information on toxicological effects:**
- **Acute Oral Toxicity LD50 Rat:-** Non toxic
- **Dermal LD50 Rabbit:-** No skin irritation
- **Acute Inhalation Toxicity:-** No data available
- **Skin Irritation:-** Non irritating
- **Eye Irritation (Rabbit):-** No eye irritation
- **Sensitization (Guinea Pig):-** No data available
- **Genotoxicity and Reproductive Effects:-** No data available
- **Specific Target Organ Toxicity - Single Exposure: -** No data available.
- **Specific Target Organ Toxicity - Repeated Exposure:-** No data available.
- **Aspiration Hazard:-** No information available.

12. Ecological information :-

- **Toxicity:-**
- **Toxicity in fish LC50:-** No data available
- **Toxicity to daphnia and other aquatic invertebrates: -** Toxicity to algae: No data available
- **Persistence and Degradability:-** No data available
- **Bio Accumulative Potential:-** Bioaccumulation not expected.
- **Mobility in Soil: -** No information available.
- **Results of PBT and vPvB Assessment: -** Assessment not available.
- **Other Adverse Effects:-** No additional environmental adverse effects are known.
- **Additional Ecological Information:--** Do not allow product to enter surface waters, wastewater or soil.

13. Disposal considerations :-

- **Waste Treatment Methods: -**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transportation Information

The transport regulations are cited according to international and/or harmonized transport regulations. Possible national deviations and country specific requirements are not considered.

- **US DOT Information:-** No Classification assigned.
- **TDG Information:-** No Classification assigned.
- **ADR Information:-** No Classification assigned.
- **RID Information:-** No Classification assigned.
- **IATA Information:-** No Classification assigned.
- **ICAO Information:-** -No Classification assigned.
- **IMDG Information:-** No Classification assigned.

15 - Regulatory Information:-

- **U.S. Federal Regulations:-** This product is not listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.
- **SARA Section 311/312 (40 CFR 370 Subparts B and C) :** Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive:
- **U.S. State Regulations:-** This product is not listed on the state lists from CA, MA, MN, NJ or PA. Not listed under California Proposition 65. Note: residual vinyl acetate is a listed material.
- **Globally Harmonized System of Classification and Labelling (GHS):-** This product has been checked for country-specific published classifications according to the Globally Harmonized System of Classification and Labelling (GHS).
- **Harmonized System of Classification and Labelling (GHS).**
- **Australia GHS Classifications:** No published information available.
- **European Union GHS Classifications:** No published information available.
- **Indonesia GHS Classifications:** No published information available.
- **Japan GHS Classifications:** No published information available.
- **Korea GHS Classifications (SV):** No published information available.
- **New Zealand GHS Classifications:** No published information available.
- **South Africa GHS Classifications:** No published information available.
- **Taiwan GHS Classifications:** No published information available.

16- Disclaimer

The information and recommendations herein are taken from data contained in independent, industry recognized references. Although reasonable care has been taken in the preparation of the information herein, we, ONNYYXX PETROCHEM PVT.LTD. Don't take guarantee/ warranty (express or implied) or other representation and assume no responsibility as to the accuracy or suitability of such information for application of the information, since conditions of its use are beyond control of our company. We shall not bear any liability whatsoever for any loss or damage incurred in connection with the use of this substance.