Precautions to ensure safe usage

•	A potentially hazardous situation which could result in death or serious injury.
A Warning	
A Caution	A dangerous situation which could result in minor or medium injury and/or in which only property damage is foreseen
For a Never Toyo: Pleas	X products have been developed and manufactured for general industrial applications. oplications that require safety, confirm in advance. use for implant or injection application or other applications where there is a possibility of the product partially remaining in the book makes no guarantee of the adaptability or safeness related to such applications. e read the Handling Precautions carefully before use. erminology glosses on our website for words marked with a *.
ECORON / ECORON-S Hose	
 Do not Mar Please not Do not us Clean the Hoses of When p Use hose Powdee The out Do not Los not Do not Do not Do not Mar 	Or using the hoses use outdoors or in a place subject to constant direct sunlight. Ultraviolet light can cause the surface to become sticky and susceptible to cracking ning Always use a hose within its recommended temperature and pressure range. In the case of use under negative pressure, ECORON-S hoses may not be applicable depending on application or conditions (temperature, movements, etc.). Refer to the "Use condition reference values for TOYOX vacuum hoses (Terms explained, Fig. 1)" regarding guidelines for negative pressure use range te that compounding agents could be extracted / eluted from the hose depending on use conditions. Please confirm the use conditions and the effects on your products before use for fuel oil (heavy oil, kerosene (light oil), kerosene (lamp oil), gasoline) or solvents. Some lubricants are not suited for the hose. Please consult us before using the hose for any lubrical inside of the hose with water before using it to transport drinking water or food products. X: Clean the hose with hot water (80°C or below) for 30 minutes or less at 0.1 MPa pressure or lee expand and contract according to internal pressure, so adequate space should be provided when setting up. pressurizing, slowly open / close any valves to avoid *1 impact pressure. sa the dangles larger than their ************************************
_	the couplings, and bacteria may propagate (attach to the parts) or the hose may deteriorate. Also, dust, hose fragments (reinforcement material) and ink adhering to the outer surface may be mixed
-	or cutting the hoses
2. When c	he hoses, use cutters with new blades as much as possible. (The reinforcement threads may slightly protrude from the end of the hose utting a hose, make sure that the edge face of the hose is cut perpendicularly. If it is not perpendicular, the hose may leak or become disconnect ase of cutting ECORON-S hose, the reinforcement coil may cause injury or may damage or make a hole in the hose. Please take sufficient c
Notes f	or assembly
than o 2. Becaus	ommend using "TOYOCONNECTOR," our dedicated coupling for ECORON hoses and ECORON-S hoses. If you use a coupling other ar dedicated couplings or attach the coupling not according to our manual, the performance of your hose may decrease. e the inner tube can be easily cut in comparison with conventional hoses made of soft PVC, use nipple barbs with rounded corner ar simples with the fact he size of the base. Do not use here nimber with demond or mutted with our face.
	se nipples suitable for the size of the hose. Do not use hose nipples with damaged or rusted surfaces. ighten the hoses with wires.
5. After m Consul	ounting of couplings, *4 <u>permanent deformation</u> of plastic may cause fluid leakage, hose disconnection, or hose rupture. t Toyox about coupling types and characteristics of hose material.
hoses a depend fastenii on with	npression strength indicated in this brochure is based on data which was obtained from pressure tests conducted by Toyox using th lone by its own testing method. Therefore, the hose may be dislocated before the hose ruptures, or another problem may occur ling on the conditions of the couplings being mounted (the shapes of hose nipples, types of hose clamps, number of hose clamps, ng torque and how they are crimped). Select a safe, effective method for mounting couplings to the hoses based on the following da Istanding pressure. For technological information on mounting couplings, please make inquiries through our Customer Advice Cent
-	en the hose clamp as necessary. Deformation of the plastic hose clamp fastening can cause fluid leakage and hose disconnection
	use one-push fittings. Hose may rupture.
	or inspections
	rk inspection: Before starting operation, check the hose for abnormalities, such as external damage, stiffening, softening and discolorat
-	r inspection: During periods when the hose is in use, be sure to perform regular monthly inspections. do if an abnormality is found
The life of h depressuriz	oses will be greatly affected by the physical properties, temperature, and flow rates of the fluid as well as by the frequency of pressurization and ation. If any of the following problems or similar signs are found in the pre-work or regular inspections, immediately cease use and replace the handling problems or similar signs are found in the pre-work or regular inspections, immediately cease use and replace the handling problems or similar signs are found in the pre-work or regular inspections, immediately cease use and replace the handling problems or similar signs are found in the pre-work or regular inspections.
1 // 6 / 6 / 6	

- 1. Abnormality near the coupling: localized stretching, bending, leakage or swelling
- 2. External damage: large scratches in the outer surface, cracking, or water infiltrating the reinforcement layer
- 3. Internal abnormalities: Bulging or **5 separation of the inner surface, or wear that leads to exposure of the hose reinforcement material.
- Note: In the case of abnormalities on the interior or exterior surface, hose scrapings and fragments of hose reinforcing materials may mix into the fluid inside the hose.
- 4. Other abnormal changes (stiffening, *6 swelling, cracking, bulging, discoloration of the reinforcement layer, etc.)

(5) Notes for storage

- 1. Do not store outdoors or in a place subject to direct sunlight. This may cause the quality of the hose surface to deteriorate, becoming sticky and/or susceptible to cracking. Store in a low-humidity, well-ventilated place. Store keeping the inside of the hose free from foreign matter and dust.
- 2. Do not store where the hose will make contact with other PVC products or near rubber products.

6 Notes for disposal

- 1. Do not incinerate the hose. The incineration may generate toxic gases or damage incinerators; therefore, the hose should be treated as industrial waste for disposal purposes.
- 2. The hose should be disposed of in accordance with the requirements of the local region.