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## 1 Identification of substance

- Product details : Shock Absorber
- Trade name  : OD220, OD222, VD220, VD222, TD220, TD222, RD220, RD222  
Twin tube hydraulic shock absorber
- Application of the substance / the preparation : Shock Absorber
- Manufacturer/Supplier : YSS (Thailand) Co., Ltd.  
88/88 Moo 9, Soi Phikulthong Thepharak Road  
Bangpla, Bangpli, Samutprakarn 10540 THAILAND  
Tel : +66 2 763 8600  
Fax : +66 2 763 8829
- Informing department : Export Department  
Email : [export@yss.co.th](mailto:export@yss.co.th)  
Emergency Information : +66 2 763 8600

## 2 Hazards identification

- Hazard designation : Void
- Information pertaining to particular dangers for man and environment : Warning! Pressurized container
- Human health hazards : Void
- Label Element : The product does not have to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system : The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

## 3 Composition/information on ingredients

- Dangerous components: : Void
- Chemical characterization**
- Description : The shock absorber contains hydraulic oil.
  - Additional information : Not classified as dangerous for supply or conveyance

## 4 First aid measures

- General information : No special measures required.

### In case of Chemical insight contact ;

- Skin contact : Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention.
- Eye contact : Flush eyes immediately with fresh water for several minutes while holding the eyelids open.

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Ingestion	:	If swallowed and person is conscious give water or milk. Do not make person vomit except on advice of medical personnel. If advice cannot be obtained, take person and container to nearest emergency treatment center. Never give anything by mouth to an unconscious person.
Inhalation	:	This material is not expected to be an acute inhalation problem under typical applications.
Advice to physicians	:	Treat symptomatically. Aspiration into the lungs may result in chemical pneumonitis. Dermatitis may result from prolonged or repeated exposure

### 5 Fire fighting measures

• Suitable extinguishing agents	:	The product itself does not burn. Use fire fighting measures that suit the environment.
• Suitable extinguishing media	:	Carbon dioxide, foam and dry chemical powder. (Sand or earth may be used for small fires only)
• Special hazards caused by the material, its products of combustion or resulting gases	:	Combustion is likely to give rise to a complex mixture of air borne Solid and Liquid particulates and gases, including carbon monoxide, oxides of sulphur, and unidentified organic and inorganic compounds.
• Protective equipment	:	In case of fire wear breathing equipment being independent of ambient air and suit provided full protection against chemicals.
• Additional information	:	Remove fill mass from incendiary zone, if possible. Cool endangered containers with water spray jet.

### 6 Accidental release measures

• Person-related safety precautions:	:	Ensure adequate ventilation. Keep away from ignition sources Avoid contact with skin and eyes.
• Environmental precautions :	:	Inform authorities if gas escapes. Do not allow to enter drainage system, surface or ground water.
• Method of cleaning/collecting:	:	Absorb with liquid-binding material (sand, diatomite, universal binders) and disposal in suitable Containers.

### 7 Handling and storage

#### Handling

• Information for safe handling:	:	Keep empty containers away from heat and ignition sources. Ensure good interior ventilation, especially at floor level (Fumes are heavier than air). No special measures required.
• Information about protection against explosions and fires:	:	The product is not flammable

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### Storage

- Requirements to be met by storerooms and containers: : Store containers in a well aired place at a temperature of less than 50°C. Store only undamaged original packaging drums.
- Information about storage in one common storage facility: : Keep away from combustible and/or inflammable materials.
- Further information about storage conditions: : Store in a cool place. Heat will increase pressure and may lead to the container exploding.
- Storage class : 2A (Compressed, liquidized and under pressure solved gases) according to VCI concept

### 8 Exposure controls and personal protection

- Components with limit values that require monitoring at the workplace: : The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information: : The lists that were valid during the compilation were used as basis.
- Personal protective equipment**
- General protective and hygienic measures : Wear suitable protective clothing at work.
  - Breathing equipment: : Not required.
  - Protection of hands: : Not required.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the penetration times, rates of diffusion and the degradation.
  - Material of gloves : The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.  
As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
  - Penetration time of glove material : The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - Eye protection: : Not required.

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## 9 Physical and chemical properties

### General Information

Form : Shock absorber, pneumatic / hydraulic.  
Color : Colorless  
Odor : Odorless

### Change in condition

Melting point/Melting range : Not determined  
Boiling point/Boiling range : N/A °C

**Flash point:** : Not applicable

**Self-inflammability:** : Product is not self-igniting.

**Danger of explosion:** : Product is not explosive.

**Density :** : Not determined

**Solubility in / Miscibility with Water** : Insoluble

### Solvent content

Organic solvents: : 0.0%  
Water: : 0.0 %

**Additional information** : The bonfire-test resulted in no flying away components.

## 10 Stability and reactivity

- Reactivity : None of Reactivity
- Chemical stability
  - Thermal decomposition / conditions to be avoided : No decomposition if used and stored according to specifications.
  - Dangerous products of decomposition : None in case of intended use and storage in compliance with instructions.

## 11 Toxicological information

- Acute toxicity : Toxicological data have not been determined specifically for this product.  
Information given is based on a knowledge of the components and the toxicology of similar product
- Primary irritant effect:**
- on the skin : No irritant effect.
  - on the eyes : No irritant effect.
  - Sensitization : No sensitizing effect known.
  - Additional toxicological information : When inhaling high concentrations narcotic symptoms are possible. The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.

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## 12 Ecological information

- General notes

Water hazard class 1 (German Regulation) (Self-assessment)

: Slightly hazardous for water.

The product contains materials that are harmful to the environment.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

## 13 Disposal considerations

- Product

• Recommendation Contact manufacturer for recycling information.

- European waste catalogue

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	Gases in pressure containers and discarded chemicals
16 05 05	Gases in pressure containers other than those mentioned in 16 05 04

- Uncleaned packaging

• Recommendation: : Dispose of packaging according to regulations on the disposal of packagings.

## 14 Transport information

- Land transport ADR/RID (cross-border)



• ADR/RID-GGVSE Class	: 2 6A Gases.
• UN-Number	: 3164
• Label	: 2.2
• Designation of goods	: 3164 ARTICLES, PRESSURIZED, HYDRAULIC
• Remarks	Special Provision: 283

- Maritime transport IMDG:



• UN Number	: 3164
• Label	: 2.2
• EMS Number	: F-C,S-V
• Marine pollutant	: No
• Correct technical name	: ARTICLES, PRESSURIZED, HYDRAULIC
• Remarks	: Special Provision: 283

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Air transport ICAO-TI and IATA-DGR



- ICAO/IATA Class : 2.2
- UN/ID Number : 3164
- Label : 2.2
- Correct technical name : ARTICLES, PRESSURIZED, HY DRAULIC
- Remarks : Special Provisions: A114 and A195

15 Regulatory information

Regulatory Information : N/A

16 Other information

Recommendations/Restrictions : N/A