

### 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Z-300
- **Article number:** R-023
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Grease
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ULVAC TECHNO, Ltd.  
2609-5 Hagisono, Chigasaki, Kanagawa, Japan 253-8555
- **Further information obtainable from:**  
Tel: +81-467-87-1045  
Fax: +81-467-58-4361  
E-mail: [ulvactechno-hyoujun@ml.ulvac.com](mailto:ulvactechno-hyoujun@ml.ulvac.com)
- **Emergency telephone number:** Tel: +81-467-87-1045

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled 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 according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:** Void
- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

- *Description of first aid measures*
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** When heated the product forms flammable fumes.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** Protect from contamination.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- *Additional information about design of technical facilities: No further data; see item 7.*
- *Control parameters*
- *Ingredients 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 valid during the making were used as basis.*
- *Exposure controls*
- *Personal protective equipment:*
- *General protective and hygienic measures:*  
*The usual precautionary measures are to be adhered to when handling chemicals.*
- *Respiratory protection: Not necessary if room is well-ventilated.*
- *Protection of hands:*  
*Oil resistant gloves*  
*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 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 can not 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.*

## 9 Physical and chemical properties

· <i>Information on basic physical and chemical properties</i>	
· <i>General Information</i>	
· <i>Appearance:</i>	
<i>Form:</i>	<i>Pasty</i>
<i>Colour:</i>	<i>White</i>
· <i>Odour:</i>	<i>Recognizable</i>
· <i>Odour threshold:</i>	<i>Not determined.</i>
· <i>pH-value:</i>	<i>Not applicable.</i>
· <i>Change in condition</i>	
<i>Melting point/Melting range:</i>	<i>Undetermined.</i>
<i>Boiling point/Boiling range:</i>	<i>Undetermined.</i>
· <i>Flash point:</i>	<i>Not applicable.</i>
· <i>Flammability (solid, gaseous):</i>	<i>Not determined.</i>
· <i>Ignition temperature:</i>	<i>Not applicable.</i>
· <i>Decomposition temperature:</i>	<i>Not determined.</i>
· <i>Danger of explosion:</i>	<i>Product does not present an explosion hazard.</i>
· <i>Explosion limits:</i>	
<i>Lower:</i>	<i>Not determined.</i>
<i>Upper:</i>	<i>Not determined.</i>
· <i>Vapour pressure:</i>	<i>Not applicable.</i>
· <i>Density at 25 °C:</i>	<i>1.97 g/cm<sup>3</sup></i>
· <i>Relative density</i>	<i>Not determined.</i>
· <i>Vapour density</i>	<i>Not applicable.</i>
· <i>Evaporation rate</i>	<i>Not applicable.</i>
· <i>Solubility in / Miscibility with water:</i>	
	<i>Insoluble.</i>
· <i>Partition coefficient (n-octanol/water):</i>	
	<i>Not determined.</i>
· <i>Viscosity:</i>	
<i>Dynamic:</i>	<i>Not applicable.</i>
<i>Kinematic:</i>	<i>Not applicable.</i>
· <i>Other information</i>	<i>No further relevant information available.</i>



## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Toxic metal oxide smoke

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**  
on the skin: No irritant effect.  
on the eye: No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** Not easily biodegradable
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **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 course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- *Waste treatment methods*
- *Recommendation*  
*Can be disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.*  
*Smaller quantities can be disposed of with household waste.*
- *Uncleaned packaging:*
- *Recommendation: Disposal must be made according to official regulations.*

### 14 Transport information

- <i>UN-Number</i>	
- <i>ADR, ADN, IMDG, IATA</i>	<i>Void</i>
- <i>UN proper shipping name</i>	
- <i>ADR, ADN, IMDG, IATA</i>	<i>Void</i>
- <i>Transport hazard class(es)</i>	
- <i>ADR, ADN, IMDG, IATA</i>	
- <i>Class</i>	<i>Void</i>
- <i>Packing group</i>	
- <i>ADR, IMDG, IATA</i>	<i>Void</i>
- <i>Environmental hazards:</i>	
- <i>Marine pollutant:</i>	<i>No</i>
- <i>Special precautions for user</i>	<i>Not applicable.</i>
- <i>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</i>	<i>Not applicable.</i>
- <i>UN "Model Regulation":</i>	-

### 15 Regulatory information

- *Safety, health and environmental regulations/legislation specific for the substance or mixture*
- *National regulations:*
- *Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.*
- *Chemical safety assessment: A Chemical Safety Assessment has not been carried out.*

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Department issuing MSDS:** Product safety department.

- **Contact:**

ULVAC TECHNO,Ltd.

Head of pump Center Standard Equipment Headquarters

- **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organization*

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*