

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 05.03.2009

Revision: 24.05.2008

## 1 Identification of the substance/preparation

- **Product details**
- **Trade name:** Rubber Solution
- **Article number:** -
- **Application of the substance / the preparation** -
- **Manufacturer/Supplier:**  
Ying Paio Enterprise Co., Ltd.  
No.480-3, Sec. 6, Yen-Ping N. Rd., Taipei, Taiwan, R.O.C.
- **Further information obtainable from:** Contact person: Sue Chen
- **Information in case of emergency:**  
Tel: +886-2-28150659  
Fax: +886-2-28169136  
Mail: yingpaio@ms17.hinet.net  
suechen@yingpaio.com.tw

## 2 Hazards identification

- **Hazard description:**



Xn Harmful  
F Highly flammable  
N Dangerous for the environment

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 11 Highly flammable.

R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 67 Vapours may cause drowsiness and dizziness.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **GHS label elements**



2.6/2 - Highly flammable liquid and vapour.



3.10/1 - May be fatal if swallowed and enters airways.



3.2/2 - Causes skin irritation.

3.8/3 - May cause drowsiness or dizziness.



4.1/2 - Toxic to aquatic life with long lasting effects.

- **Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

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Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/ equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

· **Response:**  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
IF ON SKIN: Wash with plenty of soap and water.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
Specific treatment (see label).  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
Collect spillage.

· **Storage:**  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.

· **Disposal:**  
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**  
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

**3 Composition/information on ingredients**

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 108-87-2 EINECS: 203-624-3 Index number: 601-018-00-7	methylcyclohexane ☒ Xn, ☒ Xi, ☒ F, ☒ N; R 11-38-51/53-65-67 Danger: ☒ 2.6/2; ☒ 3.10/1 Warning: ☒ 3.2/2, 3.8/3 ☒ 4.1.C/2	80- 85%
CAS: 110-82-7 EINECS: 203-806-2 Index number: 601-017-00-1	cyclohexane ☒ Xn, ☒ Xi, ☒ F, ☒ N; R 11-38-50/53-65-67 Danger: ☒ 2.6/2; ☒ 3.10/1 Warning: ☒ 4.1.C/1; ☒ 3.2/2, 3.8/3	0,05-0,2%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

**4 First aid measures**

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.

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· **After swallowing:** *If symptoms persist consult doctor.*

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### 5 Fire-fighting measures

- **Suitable extinguishing agents:** *CO<sub>2</sub>, sand, extinguishing powder. Do not use water.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **Protective equipment:** *No special measures required.*

### 6 Accidental release measures

- **Person-related safety precautions:** *Wear protective equipment. Keep unprotected persons away.*
- **Measures for environmental protection:**  
*Do not allow product to reach sewage system or any water course.*  
*Inform respective authorities in case of seepage into water course or sewage system.*  
*Do not allow to enter sewers/ surface or ground water.*
- **Measures for cleaning/collecting:**  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*  
*Dispose contaminated material as waste according to item 13.*  
*Ensure adequate ventilation.*  
*Do not flush with water or aqueous cleansing agents*

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
*No special measures required.*  
*Ensure good ventilation/exhaustion at the workplace.*  
*Prevent formation of aerosols.*
- **Information about fire - and explosion protection:**  
*Keep ignition sources away - Do not smoke.*  
*Protect against electrostatic charges.*
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *Store in a cool location.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:**  
*Protect from humidity and water.*  
*Keep container tightly sealed.*  
*Store in cool, dry conditions in well sealed receptacles.*

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** *No further data; see item 7.*
- **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.*
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
*Keep away from foodstuffs, beverages and feed.*  
*Immediately remove all soiled and contaminated clothing*  
*Wash hands before breaks and at the end of work.*

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Avoid contact with the skin.  
Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

· **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.

· **Penetration time of glove material n.a.**

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 100°C

· **Flash point:** -4°C

· **Ignition temperature:** 260°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

**Lower:** 1,1 Vol %

· **Vapour pressure at 20°C:** 48 hPa

· **Density:** Not determined.

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Solvent content:**

**VOC (EC)** 85,23 %

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### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**108-87-2 methylcyclohexane**

Oral	LD50	2250 mg/kg (mouse)
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**110-82-7 cyclohexane**

Oral	LD50	12705 mg/kg (rat)
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· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

### 12 Ecological information

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

### 13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

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### 14 Transport information

· Land transport ADR/RID (cross-border)



- ADR/RID class: 3 Flammable liquids.
- Danger code (Kemler): 33
- UN-Number: 1993
- Packaging group: II
- Hazard label: 3
- Description of goods: 1993 FLAMMABLE LIQUID, N.O.S. (METHYLCYCLOHEXANE)

· Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 1993
- Label: 3
- Packaging group: II
- EMS Number: F-E,S-E
- Marine pollutant: No
- Proper shipping name: FLAMMABLE LIQUID, N.O.S. (METHYLCYCLOHEXANE)

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1993
- Label: 3
- Packaging group: II
- Proper shipping name: FLAMMABLE LIQUID, N.O.S. (METHYLCYCLOHEXANE)

- UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.O.S., 3, II
- Environmental hazards: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID

### 15 Regulatory information

· Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

Caution - substance not yet fully tested.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

Xn Harmful

F Highly flammable

N Dangerous for the environment

· Hazard-determining components of labelling:

methylcyclohexane

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· **Risk phrases:**

- 11 Highly flammable.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 9 Keep container in a well-ventilated place.
- 13 Keep away from food, drink and animal feedingstuffs.
- 16 Keep away from sources of ignition - No smoking.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 46 If swallowed, seek medical advice immediately and show this container or label.

## 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.

· **Relevant R-phrases**

- 11 Highly flammable.
- 38 Irritating to skin.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:**

n.a. = nicht anwendbar / n.v. = nicht verfügbare / n.g. = nicht geprüfte / k.D.v. = keine Daten vorhanden.

· **Contact:** Ms Beth

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent