

**H1500**

Version 1.4

Date of last issue: 2017/11/30

Revision Date: 2019/01/28

Date of first issue: 2015/02/26

**1. PRODUCT AND COMPANY IDENTIFICATION****Product name** : H1500**Recommended use of the chemical and restrictions on use**

Recommended use : Raw material for industry

Restrictions on use : Prohibition of recommendation applications outside of use

**Manufacturer or supplier's details**

Company : LOTTE Chemical Corporation

Address : Lotte World Tower, 300, Olympic-ro, Songpa-gu, Seoul, 05551  
Rep. of KOREA

|           |   |              |                |
|-----------|---|--------------|----------------|
| Telephone | : | Head-Office  | 82-2-829-4190  |
|           |   | Yeosu Plant  | 82-61-688-2021 |
|           |   | Daesan Plant | 82-41-689-5800 |
|           |   | Ulsan Plant  | 82-52-278-3421 |

|                            |   |              |                |
|----------------------------|---|--------------|----------------|
| Emergency telephone number | : | Head-Office  | 82-2-829-4190  |
|                            |   | Yeosu Plant  | 82-61-688-2021 |
|                            |   | Daesan Plant | 82-41-689-5800 |
|                            |   | Ulsan Plant  | 82-52-278-3421 |

Telefax : 82-2-834-6070

**2. HAZARDS IDENTIFICATION****GHS Classification**

This material is not classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety and Health Act (ISHA). It is not regulated for the MSDS creation and labeling by the provision of Article 41 Paragraph 1 of the ISHA.

**GHS label elements**

This material is not classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety and Health Act (ISHA). It is not regulated for the MSDS creation and labeling by the provision of Article 41 Paragraph 1 of the ISHA.

**Other hazards which do not result in classification**

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

**NFPA Grade(0~4 level)**

Health 1, Fire 1, Instability 0

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Components**

| Chemical name | Common Name | CAS-No. | Concentration (%) |
|---------------|-------------|---------|-------------------|
|---------------|-------------|---------|-------------------|

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|               |               |           |                |
|---------------|---------------|-----------|----------------|
| Polypropylene | Polypropylene | 9003-07-0 | >= 95 ~ <= 100 |
|---------------|---------------|-----------|----------------|

**4. FIRST AID MEASURES**

|   |  |
|---|--|
| General advice  | : Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.   |
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.  |
| In case of skin contact                                     | : If skin irritation persists, call a physician.   |
| If inhaled  | : If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.  |
| If swallowed  | : Induce vomiting immediately and call a physician.<br>Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : None known.  |
| Protection of first-aiders                                  | : Keep the medical staff know about the substance to take protective measures  |
| Notes to physician  | : Inform the healthcare personnel of the contamination situation and have them take appropriate protective measures  |

**5. FIREFIGHTING MEASURES****Suitable and unsuitable extinguishing media**

|   |   |
|---|---|
| Suitable extinguishing media                | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media              | : High volume water jet   |
| <b>Specific hazards during firefighting</b> | : No data available   |
| Hazardous combustion products               | : inhalation of combustion products may be harmful  |

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Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Special protective equipment for firefighters** : Wear self-contained breathing apparatus for firefighting if necessary.

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**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

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**7. HANDLING AND STORAGE**

Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

Recommended storage temperature : 21 - 23 °C

Storage period : No data available

Packaging material : Unsuitable material: Keep container closed to avoid excessive dust accumulation and prevent contamination.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Engineering measures** : Ensure adequate ventilation and exhaust ventilation at the workplace.

**Personal protective equipment**

**Respiratory protection** : In the case of dust or aerosol formation use respirator with an approved filter.  
Dust safety masks are recommended when the dust concentration is more than 10 mg/m<sup>3</sup>.

**Eye protection** : Eye wash bottle with pure water  
Tightly fitting safety goggles

**Hand protection**  
**Remarks** : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Skin and body protection** : Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures** : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : Solid form

**Colour** : translucent

**Odour** : odourless

**Odour Threshold** : No data available

**pH** : Not applicable

**Melting point/range** : 150 - 170 °C

**Boiling point/boiling range** : Not applicable

**Flash point** : Not applicable

**Evaporation rate** : Not applicable

**Flammability (solid, gas)** : No data available

**Flammability (liquids)** : No data available

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|  |                                 |
|--|---------------------------------|
| Burning rate                                       | : No data available             |
| Self-ignition                                      | : No data available             |
| Burning number                                     | : No data available             |
| Upper explosion limit / Upper flammability limit   | : Not applicable                |
| Lower explosion limit / Lower flammability limit   | : Not applicable                |
| Vapour pressure                                    | : Not applicable                |
| Bulk density                                       | : No data available             |
| Solubility(ies)                                    |                                 |
| Water solubility                                   | : insoluble                     |
| Solubility in other solvents                       | : No data available             |
| Relative vapour density                            | : Not applicable                |
| Relative density                                   | : No data available             |
| Density  | : 0.89 - 0.91 g/cm <sup>3</sup> |
| Partition coefficient: n-octanol/water             | : No data available             |
| Auto-ignition temperature                          | : > 380 °C                      |
| Decomposition temperature                          | : > 300 °C                      |
| Self-Accelerating decomposition temperature (SADT) | : No data available             |
| Temperature of Polymerisation (SAPT)               | : No data available             |
| Viscosity  |                                 |
| Viscosity, dynamic                                 | : No data available             |
| Viscosity, kinematic                               | : No data available             |
| Flow time  | : No data available             |
| Solvent separation                                 | : No data available             |
| Explosive properties                               | : No data available             |
| Oxidizing properties                               | : No data available             |
| Self-heating substances                            | : No data available             |
| Heat of combustion                                 | : No data available             |

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|                                       |                     |
|---------------------------------------|---------------------|
| Impact sensitivity                    | : No data available |
| Surface tension                       | : No data available |
| Conductivity                          | : No data available |
| Molecular weight                      | : > 1,000 g/mol     |
| Minimum explosible dust concentration | : No data available |
| Dust deflagration index (Kst)         | : No data available |
| Dust explosion class                  | : No data available |
| Radioactivity                         | : No data available |
| Metal corrosion rate                  | : No data available |
| Particle size                         | : No data available |
| Particle Size Distribution            | : No data available |

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**10. STABILITY AND REACTIVITY**

|   |  |
|---|--|
| Chemical stability and possibility of hazardous reactions | : No decomposition if stored and applied as directed.<br>Stable under recommended storage conditions.<br>No hazards to be specially mentioned. |
| Conditions to avoid                                       | : Heat, flames and sparks.   |
| Incompatible materials                                    | : Combustible material   |
| Hazardous decomposition products                          | : No data available  |

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**11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : No data available

**Health hazard information****Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): > 8,000 mg/kg

**Skin corrosion/irritation****Product:**

Remarks: Non-irritating at room temperature but in contact with hot molten resin can cause severe burned.

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### Serious eye damage/eye irritation

**Product:**

Remarks: In direct contact with resin may includes irritating and redness.

### Respiratory or skin sensitisation

**Product:**

Remarks: Resin itself is inert and harmless but dust may includes respiratory tract irritation and coughing.

### Carcinogenicity

**Product:**

Result: IARC : Group 3

### Germ cell mutagenicity

No data available

### Reproductive toxicity

No data available

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Aspiration toxicity

**Product:**

No aspiration toxicity classification

### Further information

**Product:**

Remarks: No data available

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: Not applicable

### Mobility in soil

**Product:**

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Stability in soil : Remarks: Not expected to adsorb on soil.

**Other adverse effects**

No data available

**Product:**

Additional ecological information : No known ecotoxicity. However, birds, fish and other wildlife can be affected if ingested by waterfowl or aquatic life.

**Hazardous to the ozone layer**

Not applicable

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**13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**Disposal precautions**

Dispose of in accordance with local regulations.

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**14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable  
Marine pollutant : Not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**

Refer to section 15 for specific national regulation.

**Special precautions for user**



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Remarks : Not classified as dangerous in the meaning of transport regulations.

**15. REGULATORY INFORMATION****National regulatory information****Regulation under the Occupational Safety and Health Act****Harmful Substances Prohibited from Manufacturing**

Not applicable

**Harmful Substances Required Permission for Manufacture**

Not applicable

**Hazardous substances requiring management**

Not applicable

**Controlled Substances Subject to Environment Monitoring**

Not applicable

**Controlled Substances Subject to Health Examination**

Not applicable

**Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act****Toxic Chemicals**

Not applicable

**Restricted Chemicals**

Not applicable

**Prohibited Chemicals**

Not applicable

**Toxic Release Inventory**

Not applicable

**Accident Precaution Chemicals**

Not applicable

**Dangerous Substances Safety Management Act**

Not Applicable to Dangerous Materials

**Air Pollution Control Act****Hazardous Air Pollutants**

Not applicable

**Wastes Control Act**

Industrial waste

Follow article 13 of the act to dispose the product waste

**Other requirements in domestic and other countries****The components of this product are reported in the following inventories:**

REACH :

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

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|                                |   |
|--------------------------------|---|
| NZIoC                          | : Not in compliance with the inventory                  |
| ENCS                           | : On the inventory, or in compliance with the inventory |
| ISHL                           | : On the inventory, or in compliance with the inventory |
| KECI                           | : On the inventory, or in compliance with the inventory |
| PICCS                          | : On the inventory, or in compliance with the inventory |
| IECSC                          | : On the inventory, or in compliance with the inventory |
| TCSI                           | : On the inventory, or in compliance with the inventory |
| TSCA                           | : On TSCA Inventory                                     |
| Framework Act on Fire Services | : Special combustibles(Synthetic resin)                 |

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

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**16. OTHER INFORMATION****Further information**

Sources of key data used to compile the Safety Data Sheet : Information taken from reference works and the literature., KOSHA, ECHA, NITE

**Revision number and date**

Number of Revision : 1.4

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Other information

Date format : yyyy/mm/dd

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