

H4540

Version 1.6 Date of last issue: 2017/11/30 Revision Date: 2019/02/27

Date of first issue: 2015/01/01

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : H4540

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 num: :

ber

Head-Office82-2-829-4190Yeosu Plant82-61-688-2021Daesan Plant82-41-689-5800Ulsan Plant82-52-278-3421

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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Trade Secret	Trade Secret	Trade Secret	>= 0.1 ~ < 1
Polypropylene	Polypropylene	9003-07-0	>= 95 ~ <= 100

4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

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.

If symptoms persist, call a physician.

If swallowed : Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. 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 pro-

tective 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 cir-

cumstances and the surrounding environment.

Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: No data available

Hazardous combustion prod- : inhalation of combustion products may be harmful



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Specific extinguishing meth-

ods

: 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 nec-

essary.

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.

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 ap-

plication 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 tem-

perature

: 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

No data available

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 concen-

tration is more than 10 mg/m3.

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

No data available Self-ignition

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)

insoluble Water solubility

Solubility in other solvents No data available

Relative vapour density Not applicable

Relative density No data available

Density 0.89 - 0.91 g/cm3

Partition coefficient: n-

octanol/water

No data available

> 380 °C Auto-ignition temperature

> 300 °C Decomposition temperature

Self-Accelerating decomposi-

tion temperature (SADT)

No data available

Temperature of Polymerisa-

tion (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

No data available Explosive properties

No data available Oxidizing properties

Self-heating substances No data available

Heat of combustion No data available



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Impact sensitivity No data available

No data available Surface tension

Conductivity No data available

Molecular weight > 1,000 g/mol

Minimum explosible dust con-

centration

No data available

No data available Dust deflagration index (Kst)

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

10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions

: No decomposition if stored and applied as directed. Stable under recommended storage conditions.

No hazards to be specially mentioned.

Conditions to avoid : Heat, flames and sparks.

Combustible material Incompatible materials

Hazardous decomposition

products

: No data available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of : No data available

exposure

Health hazard information

Acute toxicity

Product:

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

Components:

Trade Secret:

No data available



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Skin corrosion/irritation

Product:

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

Components:

Trade Secret:

No data available

Serious eye damage/eye irritation

Product:

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

Components:

Trade Secret:

Remarks: Product dust may be irritating to eyes, skin and respiratory system.

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

Components:

Trade Secret:

No data available

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:



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Remarks: No data available

Components: Trade Secret:

Remarks: No data available

Trade Secret:

Remarks: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Trade Secret:

No data available

Persistence and degradability

Components:

Trade Secret:

Biodegradability : Biodegradation: 28 %

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Not applicable

Components:

Trade Secret:

Bioaccumulation : Bioconcentration factor (BCF): 3.16

Mobility in soil

Product:

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

Other adverse effects

No data available

Product:

Additional ecological infor-

mation

: 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

Components:

Trade Secret:

Additional ecological infor-

mation

: No data available



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Additional ecological infor-

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: No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemi-

cal 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.

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 : Not applicable Class : Not applicable Subsidiary risk 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

Remarks : Not classified as dangerous in the meaning of transport regu-

lations.

15. REGULATORY INFORMATION

National regulatory information



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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

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



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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 Ser-

vices

: 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)

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 : 1.6

Revision Date : 2019/02/27

Other information

Date format : yyyy/mm/dd

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.