

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LLDPE UR644

Recommended use of the chemical and restrictions on use

Recommended use : Polymer
Raw material for industry

Restrictions on use : No data available

Manufacturer or supplier's details

Company : Lotte Chemical Corporation

Address : 51, Lotte Tower, Boramae-ro 5-gil,
Dongjak-Gu, Seoul, 156-711 Korea

Emergency telephone number : Head-Office 82-2-829-4192
Yeosu Plant 82-61-688-2021
Daesan Plant 82-41-689-5800
Ulsan Plant 82-52-278-3421

2. HAZARDS IDENTIFICATION

GHS Classification

No data available

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 element

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

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical Name	Common Name	CAS-No.	Concentration (%)
1-Butene, polymer with ethene	1-Butene, polymer with ethene	25087-34-7	>= 95 ~ <= 100

4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

In case of eye contact	: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
If inhaled	: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	: None known.
Protection of first-aiders	: No data available
Notes to physician	: No data available

5. FIREFIGHTING MEASURES

Suitable and unsuitable extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : No data available

Specific hazards during firefighting : No data available

Hazardous combustion products : No data available

Specific extinguishing methods : Standard procedure for chemical fires.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions : No special environmental precautions required.

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

7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.
No special handling advice required.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

Materials to avoid : No special restrictions on storage with other products.

Recommended storage temperature : No data available

Storage period : No data available

Packaging material : No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : No data available

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Eye protection : Safety glasses

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid form

Melting point/range : 100 ° C

Upper/Lower explosion limit

Density : 0.935 g/cm³

Auto-ignition temperature : 340 ° C

10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions : Stable under recommended storage conditions.
No decomposition if stored and applied as directed.
No hazards to be specially mentioned.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition products : No data available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data available

Health hazard information

Acute toxicity

No data available

Skin corrosion/irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

Product:

Remarks: No data available

Carcinogenicity

No data available

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

No data available

Further information**Product:**Remarks: No data available

12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:Additional ecological information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Disposal precautions

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION**International Regulation****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

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

15. REGULATORY INFORMATION**National regulatory information****Industrial Safety and Health Act****Harmful Substances Prohibited from Manufacturing**

Not relevant

Harmful Substances Required Permission for Manufacture

Not relevant

Controlled Hazardous Substances

Not relevant

Controlled Substances Subject to Environment Monitoring

Not relevant

Controlled Substances Subject to Health Examination

Not relevant

Toxic Chemicals Control Act

Toxic Chemicals

Not relevant

Observational chemicals

Not relevant

Restricted Chemicals

Not relevant

Prohibited Chemicals

Not relevant

Toxic Release Inventory

Not relevant

Accident Precaution Chemicals

Not relevant

Dangerous Substances Safety Management Act

Not Applicable to Dangerous Materials

Wastes Control Act

Industrial waste

Follow article 13 of the act to dispose the product waste

Other requirements in domestic and other countriesNo data available

16. OTHER INFORMATION

Sources of key data used : No data available
to compile the Safety Data
Sheet

Revision number and date

Number of Revision : 1.2

Revision Date : 2015/04/10

Other information : No data available

Date format : yyyy/mm/dd

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