



MULTIPLIED PERFORMANCE

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Safety data sheet

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **DUTRAL K TER (DRY)**
Registration number: Not applicable
Chemical name: Ethylene-Propylene-Ethyliden norbornene terpolymer (EPDM)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture: Production of various rubber final applications.
Uses advised against: Not determined.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: LOTTE VERSALIS ELASTOMERS Co., Ltd
51, Lotte Tower, Boramae-ro 5-gil, Dongjak-Gu, 07071 Korea
Phone: +82 2 840 3662

E-mail address of the competent person responsible for the SDS:

e-mail: SDS.LVE@lvelastomers.com

1.4 Emergency telephone number:

EU-wide emergency number 112.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Based on the requirements of the CLP Regulation, the product is not classified.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms: Not applicable
Signal word: Not applicable
Hazard statements: Not applicable

2.3 Other hazards

Results of PBT and vPvB assessment
PBT:

This substance / mixture is not a PBT applying the criteria of REACH Regulation, Annex XIII.

vPvB:

This substance / mixture is not a vPvB applying the criteria of REACH Regulation, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description:

Mixture, composed of polymers and of substances below the applicable classification limits or not dangerous.

Copolymer: Ethylene-Propylene-Ethylidenenorbornene, CAS: 25038-36-2.

Dangerous components:

Not applicable

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Additional information:

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For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

After inhalation:

No special measures required.

Dust or gas/vapours released by heat: move the affected person away from the contaminated area into fresh air; seek medical assistance.

After skin contact:

In case of contact with melted material, cool down with cold water and seek medical assistance. Do not remove the product that solidified on skin. Treat as a burn.

After eye contact:

Rinse opened eye for several minutes under running water.

After swallowing:

No specific measure requested in case of ingestion. If needed seek medical assistance.

4.2 Most important symptoms and effects, both acute and delayed

Dust or gas/vapours released by heat: irritation of the respiratory organs. Eyes reddening.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Water, water spray, foam, dry chemicals, carbon dioxide.

For safety reasons unsuitable extinguishing agents:

Not applicable.

5.2 Special hazards arising from the substance or mixture

Combustion products: carbon dioxide, carbon monoxide (when starved of air / oxygen), and possible unburned hydrocarbons. Overheating/pyrolysis evolves vapours made up of monomers, low molecular weight polymers and their oxidation products.

5.3 Advice for firefighters

Protective equipment:

Wear suitable protective clothing (helmet, goggles, fire resistant gloves, boots) and protect respiratory organs (self contained breathing apparatus).

Additional information

The product is combustible.

Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not discharge in the drains.

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6.3 Methods and material for containment and cleaning up:

6.4 Reference to other sections

Collect by mechanical means.

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

For information on disposal of contaminated material, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Information about fire - and explosion protection:

During the processing of the product, avoid inhalation of fumes or powders, by providing good ventilation of the workroom and, if necessary, by a suitable exhaust system.

Comply with personal hygiene measures and use the personal protective equipment (see chapter 8). Do not smoke, eat or drink in the workplace. Re-seal opened containers.

Use gloves and safety glasses. Avoid contact with sources of ignition. Elevated processing temperatures may result in some degree of thermal degradation: as a guideline 250°C is the maximum allowed temperature for very short time.

The product is a poor conductor and it is likely to accumulate electrostatic charges. Precautions normally used for not conductive materials and against the accumulation of electrostatic charges should be used during processes which employ powdered materials or produce dust (e.g.: reduce speed to the minimum, install earthing systems, the absolute prohibition to smoke and use free flames, use inert gases in mills and in the closed systems).

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool, dry, ventilated area.

Earth storage silos as precautionary measure against the static electricity build-up.

Store the product in a covered place in its sealed packaging, away from direct sunlight and heat sources.

Ensure the proper ventilation in all storage areas.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

In storage do not exceed 35°C.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

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Trade name: DUTRAL K TER (DRY)

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8.1 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.

8.2 Exposure controls

General protective and hygienic measures:

Traces of monomers and other volatile substances may be given off during processing, particularly at unusually high processing temperatures.

Work rooms must be provided with adequate ventilation and exhaust equipment to collect dust and gas/vapours that may be evolved during the conversion.

Ensure good ventilation / exhaust at the workplace.

Suitable technical controls

Personal protection measures

The personal protective equipment will vary according to the possible exposure and danger of working conditions.

Respiratory protection:

In normal conditions masks with antidust filters should be available for use when requested.

Protection of skin

Protection of hands:

Protective gloves

Eye/face protection:

Safety glasses

Other:

Standard work clothes.

Thermal dangers

No information available

Limitation and supervision of exposure into the environment

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:

Bales, crumbs, pellets

Colour:

From clear to greenish gray

Odour:

Characteristic

Odour threshold:

Not determined.

pH-value:

Not applicable.

Change in condition

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range:

Undetermined.

Flash point:

Not applicable.

Flammability (solid, gas):

Not determined.

Ignition temperature:

> 330 °C

Decomposition temperature:

Not determined.

Auto-ignition temperature:

Product is not selfigniting.

Explosive properties:

Product does not present an explosion hazard.

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Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density at 20 °C:	0.86-0.89 g/cm ³
Bulk density at 20 °C:	300-600 kg/m ³
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water:	Insoluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity	The product does not participate to dangerous reactions if stored and handled as prescribed/indicated
10.2 Chemical stability	
Thermal decomposition:	Prevent the formation of noxious gases and vapours by using the advised conversion conditions. The product is stable and inert in the recommended storage and handling conditions (see section 7). Stable in the normal storage conditions.
10.3 Possibility of hazardous reactions	No dangerous reactions known.
10.4 Conditions to avoid	No further relevant information available.
10.5 Incompatible materials:	Avoid the contact with oxidising substances.
10.6 Hazardous decomposition products:	No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute toxicity	Based on available data, the classification criteria are not met.
Primary irritant effect:	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	The product's dust may cause irritation of eyes.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Additional toxicological information:	Specific information on the product is not available in the literature. Residual monomers may be present in the product at trace levels, hindered in the polymer matrix and therefore not available in normal conditions.

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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard

No evidence of these effects has been reported.
Based on available data, the classification criteria are not met.
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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

12.2 Persistence and degradability

Other information:

12.3 Bioaccumulative potential

12.4 Mobility in soil

General notes:

12.5 Results of PBT and vPvB assessment

PBT:

vPvB:

12.6 Other adverse effects

No further relevant information available.

The product is essentially a high molecular weight polymer, not regarded as ecotoxic.

The product is a non biodegradable polymer.

Does not accumulate in organisms

No further relevant information available.

Use according to good working practice, and avoid releasing the product into the environment.

This substance / mixture is not a PBT applying the criteria of REACH Regulation, Annex XIII.

This substance / mixture is not a vPvB applying the criteria of REACH Regulation, Annex XIII.

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

The same safety considerations that apply to the product as it is, apply to scraps/waste as well.

Residues should be disposed of as required by national and local regulations.

The incineration must be done under approved conditions, possibly with energy recovery and only at suitable facilities equipped with a scrubber for the treatment of fumes before their release into the atmosphere.

Uncleaned packaging:

Recommendation:

Recommended cleansing agents:

Disposal must be made according to official regulations.

Not applicable.

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SECTION 14: Transport information

14.1 UN-Number

ADR/RID/ADN, ADN, IMDG, IATA

Not applicable

14.2 UN proper shipping name

ADR/RID/ADN, ADN, IMDG, IATA

Not applicable

14.3 Transport hazard class(es)

ADR/RID/ADN, ADN, IMDG, IATA

Class

Not applicable

14.4 Packing group

ADR/RID/ADN, IMDG, IATA

Not applicable

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:

The product is not classified as dangerous for transportation according to the following regulations: ADR/RID, IMO, IATA.

IATA

MARPOL:

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations:

Not applicable

Regulations of the European Union

Not applicable

15.2 Chemical safety assessment:

Assessment not required.

SECTION 16: Other information

Department issuing SDS:

Abbreviations and acronyms:

HSE

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

RID: Règlement international 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

GHS: Globally Harmonised 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.

Data and information contained in this Safety Data Sheet are based on our available knowledge at the last revision date. No guarantee can be given as to the sufficiency of any safety measures contained

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in this Safety Data Sheet, nor can it be assumed that other or additional measures may not be required under particular or exceptional circumstances. The user must make sure of the fitness and completeness of the information, according to the specific use they want to do.

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