according to Regulation (EC) No. 1907/2006

Visico™ LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

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

1.1 Product identifier

Trade name : Visico LE4433

Unique Formula Identifier

(UFI)

: 2YU1-MT8F-Y02N-KX6N

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

Use of the : Raw material for plastics industry

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Supplier : Borealis AG

Trabrennstrasse 6-8, 1020 Vienna, Austria

Telephone: +43 1 22400 0

E-mail address : sds@borealisgroup.com

1.4 Emergency telephone number

II+1 760 476 3962 (3E), Access code: 336296

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 1B Specific target organ toxicity - repeated exposure, Category 2, Immune system H360D: May damage the unborn child. H373: May cause damage to organs through

prolonged or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Danger

Hazard statements : H360D May damage the unborn child.

H373 May cause damage to organs (Immune system)

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according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

through prolonged or repeated exposure.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P260 Do not breathe dust.

P280 Wear protective gloves/ protective clothing.

P202 Do not handle until all safety precautions have been

read and understood.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Hazardous components which must be listed on the label:

dioctyltin dilaurate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The product burns, but is not classified as flammable.

Dust from the product gives a potential risk for dust explosion.

During crosslinking reaction in combination with base resin: methanol (Flam. Liq. 2; H225, Acute Tox.

3; H301, Acute Tox. 3; H311, Acute Tox. 3; H331, STOT SE 1; H370) is released.

In contact with water or moisture methanol will be released.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : The product is a polyethylene copolymer.

It contains carbon black. It contains stabilisers.

Components



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	68610-51-5 271-867-2 01-2119496062-39	Repr. 2; H361d Aquatic Chronic 4; H413	>= 1 - < 2,5
dioctyltin dilaurate	3648-18-8 222-883-3 050-031-00-9 UK-20-7333232785- 4-0000	Repr. 1B; H360D STOT RE 1; H372	>= 1 - < 3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : Move to fresh air in case of accidental inhalation of vapours or

decomposition products.

Seek medical advice immediately.

In case of skin contact : If molten material comes in contact with the skin, cool with

plenty of water. DO NOT remove solidified product, as

removal could result in severe tissue damage.

Obtain medical attention.

Wash off with soap and plenty of water.

Call a physician if irritation develops or persists.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.

Get medical attention if irritation develops and persists.

If swallowed : If swallowed, rinse mouth with water (only if the person is

conscious).

Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation of dust may irritate the respiratory tract.

Prolonged inhalation of high doses of decomposition products

may give headache or irritation of the respiratory tract.

Symptoms of poisoning (methanol):

Daze



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

> Dizziness Nausea Abdominal pain Respiratory disorders

Symptoms of poisoning, prolonged exposure (methanol):

Blindness

Risks : May damage the unborn child.

May cause damage to organs through prolonged or repeated

exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

No specific instructions needed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water in spread jet, dry chemicals, foam or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Principal toxicant in the smoke is carbon monoxide.

5.3 Advice for firefighters

for firefighters

Special protective equipment : Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Ensure adequate ventilation.

6.2 Environmental precautions

It is recommended to implement systems and practices (such as Operation Clean Sweep®) to prevent accidental release of plastics in to the environment.

Should not be released into the environment.



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

6.3 Methods and material for containment and cleaning up

Vacuum or sweep up spill.

All spill of material must be removed immediately to prevent slipping accidents.

Recycle or dispose loose material properly.

Do not flush into surface water or sanitary sewer system.

6.4 Reference to other sections

For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : During processing and thermal treatment of the product, small

amounts of volatile hydrocarbons may be released.

Provide adequate ventilation.

Local exhaust ventilation may be necessary. Avoid inhalation of dust and decomposition fumes.

Avoid contact with skin and eyes.

Advice on protection against

fire and explosion

Dust from the product gives a potential risk for dust explosion. All equipment shall be grounded. Routine housekeeping

should be instituted to ensure that dusts do not accumulate on

surfaces.

Hygiene measures : When using do not eat, drink or smoke. Wash hands before

breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Store locked up.

Further information on

storage stability

Keep in a dry place.

7.3 Specific end use(s)

Specific use(s) : Raw material for wire and cable applications.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

For national exposure limit (OEL) values, check country specific safety data sheets.

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

methanol	67-56-1	TWA	200 ppm	2006/15/EC
			260 mg/m3	
Further information	ation Indicative, Identifies the possibility of significant uptake through the skin			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Workers	Oral	Long-term exposure	0,8 mg/kg
Remarks:	Exposure time: 24 hrs			
	Workers	Dermal	Long-term exposure	4 mg/kg
Remarks:	Exposure time: 24 hrs			
	Workers	Inhalation	Long-term exposure	0,35 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Phenol, 4-methyl-, reaction	Sewage treatment plant	150,9 mg/l
products with dicyclopentadiene		
and isobutylene		

8.2 Exposure controls

Engineering measures

Provide adequate ventilation.

Local exhaust ventilation may be necessary.

Personal protective equipment

Eye protection : Safety glasses

Use eye protection according to EN 166.

Hand protection

Material : butyl-rubber
Break through time : >= 480 min
Glove thickness : 0,5 mm

Material : Fluorinated rubber

Break through time : >= 480 minGlove thickness : 0,4 mm

Remarks : Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time. Protective gloves complying with EN 374.

Skin and body protection : Protective clothing

Respiratory protection : In case of insufficient ventilation: Respirator with ABEK-P3

filter or self-contained breathing apparatus.



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

In case of dust development use dust mask.

Protective measures : Appropriate personal protective equipment (PPE) shall be

worn in accordance with Regulation (EU) 2016/425.

Environmental exposure controls

General advice : It is recommended to implement systems and practices (such

as Operation Clean Sweep®) to prevent accidental release of

plastics in to the environment.

Should not be released into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : pellets
Colour : black
Odour : odourless
Odour Threshold : Methanol:

Do NOT rely on the odour: olfactory level is above the

exposure limit.

Melting range : 100 - 140 °C

Boiling range : Decomposes on heating.

Flammability : The product is not flammable.

Upper explosion limit / Upper

flammability limit

Not applicable

Lower explosion limit / Lower :

flammability limit

Not applicable

Flash point : Not applicable, (solid)

Auto-ignition temperature : > 320 °C

pH : Not applicable insoluble

Viscosity

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n- : Not applicable octanol/water : insoluble



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

Vapour pressure : Not applicable

(solid)

Density : 1,1 - 1,2 g/cm³

Bulk density : 600 - 700 kg/m³ Relative vapour density : Not applicable

Particle size : 3 - 10 mm

Method: Image analysis (surface-based)

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : Not applicable

(solid)

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

The product is a stable thermoplastic, with no chemical reactivity.

The intended crosslinking reaction occurs in combination with the base resin and moisture: at ambient conditions, in sauna or hot water bath.

10.3 Possibility of hazardous reactions

Hazardous reactions : In contact with water or moisture methanol will be released.

10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Under fire conditions: Carbon monoxide



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released.

During crosslinking reaction in combination with base resin: methanol

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

May damage the unborn child.

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Effects on fertility : Test Type: Pre-/postnatal development

Species: Rabbit, female Application Route: Oral

Dose: 50 mg/kg

Method: OECD Test Guideline 414

Result: Some evidence of adverse effects on development,

based on animal experiments.

GLP: yes

STOT - single exposure

Based on available data, the classification criteria are not met.



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

STOT - repeated exposure

May cause damage to organs (Immune system) through prolonged or repeated exposure.

Aspiration toxicity

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Further information

Product:

Remarks : Information given is based on data of the components.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: No effect up to the limit of solubility.

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 0,2 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: No effect up to the limit of solubility.

Toxicity to algae/aquatic

plants

: EC50 (Selenastrum capricornutum (fresh water algae)): > 0,2

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: No effect up to the limit of solubility.



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Not readily biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Does not accumulate in organisms.

12.4 Mobility in soil

Product:

Mobility : Remarks: Not expected to adsorb on soil.

Remarks: The product is insoluble and sinks in water.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological

information

: Should not be released into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

Product : Dispose of contents/ container to an approved waste disposal

plant.

Check with local regulations.

Contaminated packaging : Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN,

IMDG-Code, ICAO/IATA-DGR

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

Regulation (EC) No 649/2012 of the European

Parliament and the Council concerning the export and

import of dangerous chemicals

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

Regulation (EU) 2019/1021 on persistent organic

: dioctyltin dilaurate

dioctyltin dilaurate

Not applicable

Not applicable



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0 Revision Date: 15.04.2024 Former date: 06.03.2023

pollutants (recast)

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Other regulations:

Chemical qualifying for PIC notification. (dioctyltin dilaurate)

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H360D : May damage the unborn child.

H361d Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated H372

exposure.

H413 : May cause long lasting harmful effects to aquatic life.

: Causes damage to organs. H370

Highly flammable liquid and vapour. H225

Full text of other abbreviations

Aquatic Chronic Long-term (chronic) aquatic hazard

Repr. Reproductive toxicity

STOT RE Specific target organ toxicity - repeated exposure 2006/15/EC : Europe. Indicative occupational exposure limit values

2006/15/EC / TWA : Limit Value - eight hours

Further information

Other information Issued according to Regulation (EC) No 1907/2006, Annex II,

and its amendments.

Changes since the last version are highlighted in the margin.

This version replaces all previous versions.

Borealis, Group Product Stewardship Issuer

Sources of key data used to

Sheet

compile the Safety Data

The classification information of components is based on raw

material supplier data.

Classification of the mixture: Classification procedure:



according to Regulation (EC) No. 1907/2006

Visico LE4433

Version 5.0	Revision Date: 15.04.2024	Former date: 06.03.2023
Repr. 1B	H360D	Calculation method
STOT RE 2	H373	Calculation method

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