Visico™ LE4438

| Version 1.0 | Revision Date: 2024/04/26 | Date of last issue: - Date of first issue: 2024/04/26 |
|--|--|--|
| 1. PRODUCT AND COMPANY | Y IDENTIFICATION | |
| Product name | : Visico LE4438 | |
| Recommended use of th | ne chemical and restrictions | s on use |
| Recommended use Restrictions on use | : Raw material for pla : Use only according | astics industry to our recommendations. |
| Manufacturer or supplie | r's details | |
| Supplier | : Borealis AG Trabrennstrasse 6-8 Telephone: +43 1 2 | 3, 1020 Vienna, Austria 2400 0 |
| Emergency telephone nur | mber : 080-880-0455 (3E), | Access code: 336296 |
| E-mail address | : <u>sds@borealisgroup</u> . | .com |

2. HAZARDS IDENTIFICATION

| GHS Classification Skin sensitisation | : | Category 1 |
|--|---|---|
| Reproductive toxicity | : | Category 1B |
| Specific target organ toxicity - repeated exposure | : | Category 2 (Immune system) |
| Long-term (chronic) aquatic hazard | : | Category 3 |
| GHS label elements Hazard pictograms | : | |
| Signal word | : | Danger |
| Hazard statements | : | H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child. H373 May cause damage to organs (Immune system) through prolonged or repeated exposure. |

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| | H412 Harmful to aquati | c life with long lasting effects. |
| Precautionary statements | and understood. P260 Do not breathe du P272 Contaminated wo the workplace. P273 Avoid release to t | til all safety precautions have been read ust. ork clothing should not be allowed out of the environment. gloves/ protective clothing/ eye |
| | P308 + P313 IF expose attention. P333 + P313 If skin irrit advice/ attention. | CIN: Wash with plenty of water. ed or concerned: Get medical advice/ tation or rash occurs: Get medical contaminated clothing and wash it before |
| | Storage: P405 Store locked up. | |
| | Disposal: P501 Dispose of conter laws | nts/ container according to waste-related |

Other hazards which do not result in classification

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance / Mixture | : | Mixture |
|---------------------|---|--|
| Chemical nature | : | The product is a polyethylene copolymer. |
| | | It contains stabilisers. |

Components

| Chemical name | Common | CAS-No. | Concentration (% |
|---|---------------|-----------|------------------|
| | Name | | w/w) |
| dioctyltin dilaurate | dioctyltin | 3648-18-8 | >= 1 - < 5 |
| | dilaurate | | |
| 6,6'-di-tert-butyl-4,4'-thiodi-m-cresol | 6,6'-di-tert- | 96-69-5 | >= 1 - < 2.5 |



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|---|--|--|--|--------------|--|
| | | butyl-4,4'- thiodi-m- cresol | | | |
| fatty acids, C16-18 | , zinc salts | fatty acids, C16-18, zinc salts | 91051-01-3 | >= 1 - < 5 | |
| dioctyltin dilaurate | | dioctyltin dilaurate | 3648-18-8 | >= 1 - < 5 | |
| 6,6'-di-tert-butyl-4, | 4'-thiodi-m-cresol | 6,6'-di-tert- butyl-4,4'- thiodi-m- cresol | 96-69-5 | >= 1 - < 2.5 | |
| zinc dioctadecanoa | ate | zinc dioctadecano ate | 557-05-1 | >= 1 - < 5 | |
| fatty acids, C16-18 | , zinc salts | fatty acids, C16-18, zinc salts | 91051-01-3 | >= 1 - < 5 | |
| poly[ethene-co-(etl propenoate)](0.85: | | poly[ethene- co-(ethyl 2- propenoate)](0.85:0.15 w) | 9010-86-0 | >= 90 - < 95 | |
| bis(3-(3,5-di(1,1-di hydroxyphenyl)-1-c propandiyl benzen | oxypropoxy methyl) 1,3- epropanoate | 3,5-bis(1,1- dimethylethyl) -4-hydroxy- 2,2-bis(3-(3,5- di(1,1- dimethyleth yl)-4- hydroxypheny I)-1- oxypropoxy methyl) 1,3- propandiyl benzeneprop anoate | 6683-19-8 | >= 1 - < 5 | |
| N,N'-bis(3,5-di(1,1 hydroxyphenyl) pro | | N,N'-bis(3,5- di(1,1- dimethylethyl) -4- hydroxypheny I) propioneamin e | 32687-78-8 | >= 1 - < 5 | |
| hexadecyltrimetho | xysilane | hexadecyltrim ethoxysilane | 16415-12-6 | >= 1 - < 5 | |



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| 4. FIRST AID MEASURES | | |
| In case of eye contact | : Rinse thoroughly with plenty of Get medical attention if irritation | of water, also under the eyelids. |
| In case of skin contact | If molten material comes in co plenty of water. DO NOT removed could result in severe Obtain medical attention. Wash off with soap and plenty Call a physician if irritation de | ontact with the skin, cool with ove solidified product, as e tissue damage. y of water. |
| If inhaled | | ccidental inhalation of vapours or |
| If swallowed | : If swallowed, rinse mouth with conscious). Seek medical advice immedia | 、 - · |
| Most important symptoms and effects, both acute and delayed | Inhalation of dust may irritate Prolonged inhalation of high of may give headache or irritatio Symptoms of poisoning (meth Daze Dizziness Nausea Abdominal pain Respiratory disorders Symptoms of poisoning, prolo Blindness May cause an allergic skin rea May damage fertility or the un | the respiratory tract. doses of decomposition products on of the respiratory tract. hanol): |
| Notes to physician | Treat symptomatically. No specific instructions needed | ed. |

5. FIREFIGHTING MEASURES

for firefighters

| Suitable and unsuitable extinguishing media | | | | |
|---|---|--|--|--|
| Suitable extinguishing media Unsuitable extinguishing media | : | Water in spread jet, dry chemicals, foam or carbon dioxide. High volume water jet | | |
| Specific hazards during firefighting | : | Principal toxicant in the smoke is carbon monoxide. | | |
| Special protective equipment | : | Wear self-contained breathing apparatus and protective suit. | | |

6. ACCIDENTAL RELEASE MEASURES



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| Personal precautions, protective equipment and emergency procedures | : Use personal protective e Ensure adequate ventilat | |
| Environmental precautions | | blement systems and practices (such ep®) to prevent accidental release of ment. |
| | Should not be released in | nto the environment. |
| Methods and materials for containment and cleaning up | slipping accidents. Recycle or dispose loose | be removed immediately to prevent |

7. HANDLING AND STORAGE

| 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. |
|--|---|--|
| 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. |
| Conditions for safe storage Further information on storage stability | : | Store locked up. Keep in a dry place. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis | |
|----------------------|--|-------------------------------------|---|--------|--|
| dioctyltin dilaurate | 3648-18-8 | TWA | 0.1 mg/m3 (Tin) | KR OEL | |
| | Further information: Substances designated by 'Skin' may be absorbed into the bloodstream through the skin, mucous membrane and eye and contribute to the overall effect. (Skin notation does not apply to the skin irritant) | | | | |



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| | | TWA | 0.1 mg/m3 (Tin) | ACGIH |
| | | STEL | 0.2 mg/m3 (Tin) | ACGIH |
| 6,6'-di-tert-butyl-4,4'-thiodi-m- cresol | 96-69-5 | TWA (Inhalable particulate matter) | 1 mg/m3 | ACGIH |
| zinc dioctadecanoate | 557-05-1 | TWA (Inhalable fraction) | 10 mg/m3 | KR OEL |
| | | TWA (Inhalable particulate matter) | 10 mg/m3 | ACGIH |
| Other is gradiente, which are li | | TWA (Respirable particulate matter) | 3 mg/m3 | ACGIH |

Other ingredients, which are listed in section 3 but not listed in this section, do not have established occupational exposure limit values.

Occupational exposure limits of decomposition products

| Components | CAS-No. | Value type | Control | Basis |
|------------|---------------|--------------------|-------------------------|------------|
| Componente | 0/10/110. | (Form of | parameters / | Baolo |
| | | exposure) | Permissible | |
| | | | concentration | |
| methanol | 67-56-1 | TWA | 200 ppm | KR OEL |
| | Further infor | mation: Substance | es designated by 'Ski | n' may be |
| | absorbed int | o the bloodstream | through the skin, mu | icous |
| | membrane a | nd eye and contri | bute to the overall eff | ect. (Skin |
| | notation doe | s not apply to the | skin irritant) | |
| | | STEL | 250 ppm | KR OEL |
| | Further infor | mation: Substance | es designated by 'Ski | n' may be |
| | absorbed inte | o the bloodstream | through the skin, mu | icous |
| | membrane a | nd eye and contri | bute to the overall eff | ect. (Skin |
| | notation doe | s not apply to the | skin irritant) | |
| | | TWA | 200 ppm | KR PEL |
| | | STEL | 250 ppm | KR PEL |
| | | TWA | 200 ppm | ACGIH |
| | | STEL | 250 ppm | ACGIH |

Engineering measures

: Provide adequate ventilation. Local exhaust ventilation may be necessary.

Personal protective equipment. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

Respiratory protection

: In case of dust development use dust mask. In the case of vapour formation use a respirator with an



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| Eye protection Hand protection Material Break through time Glove thickness | limit they must use ap The filter class for the maximum expected or (gas/vapour/aerosol/p handling the product. | cing concentrations above the exposure opropriate certified respirators. respirator must be suitable for the ontaminant concentration particulates) that may arise when If this concentration is exceeded, self- opparatus must be used. |
| Material Break through time | : Fluorinated rubber : >= 480 min | |
| Glove thickness | : 0.4 mm | |
| Remarks | breakthrough time wh gloves. Also take into | structions regarding permeability and ich are provided by the supplier of the consideration the specific local th the product is used, such as the |
| Skin and body protection Hygiene measures | : Protective clothing : When using do not ea | ion, and the contact time. at, drink or smoke. reaks and at the end of workday. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | pellets |
|------------------|---|--|
| Colour | : | natural colour |
| Odour | : | odourless |
| Odour Threshold | : | Methanol: Do NOT rely on the odour: olfactory level is above the exposure limit. |
| рН | : | Not applicable insoluble |
| Melting range | : | 100 - 140 °C |
| Boiling range | : | Decomposes on heating. |
| Flash point | : | Not applicable (solid) |
| Evaporation rate | : | Not applicable (solid) |



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| Flammability (solid, gas) | : | The product is not flammable. | |
| Upper explosion limit / Upper flammability limit | : | Not applicable | |
| Lower explosion limit / Lower flammability limit | : | Not applicable | |
| Vapour pressure | : | Not applicable (solid) | |
| Bulk density | : | 500 - 600 kg/m³ | |
| Solubility(ies) Water solubility | : | insoluble | |
| Relative vapour density | : | Not applicable | |
| Density | : | 0.9 - 1.0 g/cm³ | |
| Partition coefficient: n- octanol/water | : | Not applicable insoluble | |
| Auto-ignition temperature | : | > 320 °C | |
| Viscosity Viscosity, kinematic | : | No data available | |
| Explosive properties | : | Not explosive | |
| Oxidizing properties | : | The substance or mixture is no | ot classified as oxidizing. |
| Particle size | : | 3 - 10 mm Method: Image analysis (surfa | ice-based) |

10. STABILITY AND REACTIVITY

| Chemical stability and possibility of hazardous reactions | : | Stable under recommended storage conditions. 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. In contact with water or moisture methanol will be released. |
|---|---|---|
| Conditions to avoid | : | Exposure to moisture Extremes of temperature and direct sunlight. |
| Incompatible materials Hazardous decomposition products | - | None known. Under fire conditions: Carbon monoxide During processing and thermal treatment of the product, small |



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| | | nydrocarbons may be released. reaction in combination with base resin: |
| 1. TOXICOLOGICAL INI | FORMATION | |
| Information on likely i exposure | outes of : No data available | |
| Health hazard inform | nation | |
| Acute toxicity No data available Skin corrosion/irrita No data available | tion | |
| Serious eye damage No data available | e/eye irritation | |
| Respiratory or skin | sensitisation | |
| Respiratory sensitis No data available | ation | |
| Skin sensitisation May cause an allergio | skin reaction. | |
| Carcinogenicity No data available | | |
| Germ cell mutageni No data available | city | |
| Reproductive toxici May damage fertility | • | |
| STOT - single expose No data available | ure | |
| STOT - repeated exp May cause damage to | | n prolonged or repeated exposure. |
| Repeated dose toxi No data available | bity | |
| Aspiration toxicity No data available | | |
| Experience with hur | nan exposure | |



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| Toxicology, Metabolis No data available | m, Distribution | |
| Neurological effects No data available | | |
| Further information | | |
| Product: | | |
| Remarks | methanol (Flam. Liq. 3; H311, Acute Tox. 3 | eaction in combination with base resin: 2; H225, Acute Tox. 3; H301, Acute Tox. 3; H331, STOT SE 1; H370) is released. halation, in contact with skin and if rgans. |
| Remarks | Prolonged inhalation | y irritate the respiratory tract. of high doses of decomposition products or irritation of the respiratory tract. |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

| 6,6'-di-tert-butyl-4,4'-thiodi-r | n-c | resol: |
|---|-----|---|
| Toxicity to fish | : | LC50 (fathead minnow (Pimephales promelas)): 0.36 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.16 mg/l Exposure time: 48 h |
| M-Factor (Acute aquatic toxicity) | : | 1 |
| M-Factor (Chronic aquatic toxicity) | : | 1 |
| 6,6'-di-tert-butyl-4,4'-thiodi-r | n-c | resol: |
| Toxicity to fish | : | LC50 (fathead minnow (Pimephales promelas)): 0.36 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.16 mg/l Exposure time: 48 h |
| M-Factor (Acute aquatic toxicity) | : | 1 |



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| M-Factor (Chronic aquatic toxicity) | : 1 | |
| Persistence and degradabil | ity | |
| <u>Product:</u> Biodegradability | : Remarks: Not readily biodegra | dable. |
| Bioaccumulative potential | | |
| Product: Bioaccumulation | : Remarks: Does not accumulate | e in organisms. |
| Mobility in soil | | |
| Product: | | |
| Mobility | : Remarks: Not expected to ads | orb on soil. |
| | Remarks: The product is insolu | uble and floats on water. |
| Other adverse effects | | |
| Product: Additional ecological information | : Should not be released into the | e environment. |

13. DISPOSAL CONSIDERATIONS

| Disposal methods | | |
|------------------------|---|---|
| Waste from residues | : | Dispose of contents/ container to an approved waste disposal plant. |
| Contaminated packaging | : | Check with local regulations. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

Disposal precautions

Dispose of contents and container according to wastes control act.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG



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|--|--|--|
| UN number Proper shipping name Class Subsidiary risk Packing group Labels | Not applicable | |
| IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft) | Not applicable | |
| IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code 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 dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

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



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| Harmful Agents to b | e kept below Occupati | onal Exposure | l imits | |
| Chemical name | | | | |
| Tin (Organic compou | nds) | | 3-18-8 | |
| Zinc stearate | | 557- | 05-1 | |
| Harmful Agents Req Not applicable | uired to be kept below | Permission Le | vels | |
| Hazardous substand | es requiring managem | nent | | |
| Chemical name | | CAS | | Threshold limits (|
| | | | 3-18-8 | >= 1 % |
| | | 557- | | >= 1 % |
| Special Managemon | t Matariala | 9105 | 51-01-3 | >= 1 % |
| Special Managemen | เพลเยาสเร | | | |
| Not applicable | | | | |
| | es Subject to Environ | | <u> </u> | These last to the start |
| Chemical name | | CAS | | Threshold limits (|
| Tin and its compound | IS | 3648 | 8-18-8 | >= 1 % |
| Controlled Substand | es Subject to Health E | ixamination | | |
| Chemical name | | CAS | -No. | Threshold limits (|
| Tin and its compound | ds | 3648 | 8-18-8 | >= 1 % |
| Toxic Chemicals | | ct | | |
| Not applicable Restricted Chemical Not applicable Prohibited Chemical | - | | | |
| Not applicable Restricted Chemical Not applicable Prohibited Chemical Not applicable | S | | | |
| Not applicable Restricted Chemical Not applicable Prohibited Chemical Not applicable Toxic Release Inven | S | | | 1 |
| Not applicable Restricted Chemical Not applicable Prohibited Chemical Not applicable | S | CAS-No. | Group | |
| Not applicable Restricted Chemical Not applicable Prohibited Chemical Not applicable Toxic Release Inven | s tory | | Group Group II | limits (|
| Not applicable Restricted Chemical Not applicable Prohibited Chemical Not applicable Toxic Release Inven Chemical name | s tory ds | CAS-No. | • | limits (>= 1 % |
| Not applicable Restricted Chemical Not applicable Prohibited Chemical Not applicable Toxic Release Inven Chemical name Tin and its compound | s tory ds nds | CAS-No. 3648-18-8 | Group II | limits (* >= 1 % |
| Not applicable Restricted Chemical Not applicable Prohibited Chemical Not applicable Toxic Release Inven Chemical name Tin and its compound Zinc and its compound | s tory ds nds | CAS-No. 3648-18-8 557-05-1 | Group II Group II | limits (* >= 1 % |
| Not applicable Restricted Chemical Not applicable Prohibited Chemical Not applicable Toxic Release Inven Chemical name Tin and its compound Zinc and its compour Zinc and its compour Accident Precaution | s tory ds nds | CAS-No. 3648-18-8 557-05-1 | Group II Group II | Threshol limits (' >= 1 % >= 1 % >= 1 % |



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| Follow article 13 of the act to | dispose the product waste | |
| | | |
| OTHER INFORMATION | | |
| Further information | | |
| Sources of key data used to compile the Safety Data Sheet | : The classification info material supplier data | rmation of components is based on ra |
| Issuing date | : 2024/04/26 | |
| Revision number and date | | |
| Number of Revision Revision Date Other information | of chemical substance | Standards for classification and labelin as and material safety data sheet ant and labor public notice No. 2016-19 |
| lssuer | : Borealis, Group Produ | |
| Date format | : yyyy/mm/dd | |
| NFPA: | | |
| Flammability | | |
| | | |
| | | |
| Health 2 0 | Instability | |
| | | |
| | | |
| ~ | | |
| | | |
| Special hazard | | |
| Full text of other abbreviation | one | |
| ACGIH | : USA. ACGIH Thresho | ld Limit Values (TLV) |
| KR OEL | | kept below Occupational Exposure |



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| KR PEL | : Harmful Agents Required to be | kept below Permission Levels |
| ACGIH / TWA ACGIH / STEL KR OEL / TWA KR OEL / STEL KR PEL / TWA KR PEL / STEL | 8-hour, time-weighted average Short-term exposure limit Time Weighted Average Short Term Exposure Limit TWA STEL | |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System



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Disclaimer

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Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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