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

1.1. Product identifier

Product name

Vectra®

The following SDS applies to products described by combinations of the following trade name, product grade and color code listed below.

Product Grade(s):
A430, A430FDA

Color Code:
See Section 16 for list of Color Codes.

REACH Registration Number
This product is a mixture and therefore not directly subject of the registration requirements under REACH.

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

Identified uses
Plastic processing industry.

1.3. Details of the supplier of the safety data sheet

Celanese Production Germany GmbH & Co. KG
Am Unisys-Park 1
65843 Sulzbach (Taunus)
Germany

Celanese Sales Germany GmbH
Am Unisys-Park 1
65843 Sulzbach (Taunus)
Germany

SDS Contact (email of responsible person)
HazCom@celanese.com

1.4. Emergency telephone number
CHEMTREC: +1 703 527 3887 (Collect calls accepted)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC (CLP)
Not a hazardous substance or preparation according to Regulation 1272/2008 (CLP)

2.2. Label elements

Not required

2.3 Other Hazards
The mixture does not meet the criteria for PBT / vPvB according to REACH, Annex XIII
SECTION 3: Composition/information on ingredients

Chemical characterization
Aromatic liquid crystal polyester / LCP with Polytetrafluoroethylene / PTFE, CAS-RN. PTFE: 9002-84-0

3.1. Substances
not applicable

3.2. Mixtures
Details provided in the tables below

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No</th>
<th>EC-No.</th>
<th>Identification Number</th>
<th>Percent %</th>
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<td>109-99-9</td>
<td>203-726-8</td>
<td>603-025-00-0</td>
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<table>
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<th>Hazard Statements</th>
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<tr>
<td>Tetrahydrofuran</td>
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<tr>
<td></td>
<td>Serious eye damage / eye irritation - Category 2</td>
<td>H319</td>
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<tr>
<td></td>
<td>STOT SE - Category 3</td>
<td>H335</td>
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</table>

Remarks
For the full text of the H-statements mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.

Skin
Cool skin rapidly with cold water after contact with molten polymer. Immediate medical attention is required. Do not peel solidified product off the skin.

Eyes
Immediately flush eye(s) with plenty of water. Call a physician if irritation persists.

Ingestion
If swallowed, do not induce vomiting - seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Main symptoms
None known

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Water, Foam, Dry powder

Extinguishing media which must not be used for safety reasons
Do not use a solid water stream as it may scatter and spread fire.
5.2. Special hazards arising from the substance or mixture
Under conditions giving incomplete combustion, hazardous gases produced may consist of
- Carbon monoxide
- Carbon dioxide (CO2)
- Nitrogen oxides (NOx)
- Hydrogen fluoride (HF)

5.3. Advice for firefighters
- **Special protective equipment for fire-fighters**
  Wear self-contained breathing apparatus and protective suit.
- **Environmental precautions**
  Dike and collect water used to fight fire.
- **Other Information**
  Potential dust explosion hazard.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Do not breathe dust. Avoid dust formation.

6.2. Environmental precautions
No special environmental precautions required.

6.3. Methods and material for containment and cleaning up
Use mechanical handling equipment.

6.4. Reference to other sections
Consult trained personnel. Consider the information for “Personal Protection” in chapter 8 of this Safety Data Sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
- **Hygiene measures**
  When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.
- **Advice on safe handling**
  Avoid dust formation. Do not breathe vapours/dust. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.
- **Incompatible products**
  strong bases
- **Protection - fire and explosion:**
  Keep away from sources of ignition - No smoking. Potential dust explosion hazard.

7.2. Conditions for safe storage, including any incompatibilities
- **Incompatible products**
  strong bases
- **Technical measures/Storage conditions**
  No special storage conditions required. Avoid dust formation.
German storage class
11: Combustible solids

7.3. Specific end use(s)
None known

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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<td>100 PPM</td>
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</table>

Tetrahydrofuran
Skin Designation: Can be absorbed through the skin

DNELs
This product is a mixture and therefore not directly subject of the registration requirements under REACH.

PNECs
This product is a mixture and therefore not directly subject of the registration requirements under REACH.

8.2. Exposure controls

Engineering measures
General: May not be adequate as the sole means to control employee exposure.
Local Exhaust: Recommended when appropriate to control employee exposure to dust or process vapors.

Personal protective equipment

General advice
Do not breathe dust. Do not handle hot or molten material without appropriate protective equipment..

Hygiene measures
When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

Respiratory protection
In case of insufficient ventilation wear suitable respiratory equipment.

Eye protection
Safety glasses

Skin protection
Avoid contact with skin

Hand protection
Protective gloves

Suitable material
Type
Butyl-rubber
Butoject (Company KCL) or comparable article; or refer to glove manufacturer's recommendation
Evaluation according to EN 374: level 6
Material thickness approx. 0.3 mm
Break through time 480 min
Material thickness approx. 0.3 mm

Environmental exposure controls
Do not discharge into the drains/surface waters/groundwater

Environmental Precautions
Should not be released into the environment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
Form pellets
Odor slight, specific

Molecular Weight > 20,000 (base resin) g/mol
Flash point > 93°C
Ignition temperature > 540°C
Method ASTM D 1929
Density 1.3 - 1.4 g/ml @ 20°C
Bulk density approx 600-900 kg/m³ @ 20°C
Water solubility insoluble

9.2. Other information
The product was not tested for properties not listed on the MSDS.

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions.

10.2. Chemical Stability
Thermal decomposition can take place above > 360°C.

10.3. Possibility of hazardous reactions
No hazards to be especially mentioned.

10.4. Conditions to avoid
Flame. Contact with strong alkali solutions may soften the material. Avoid prolonged heating at or above the recommended processing temperature.

10.5. Incompatible Materials
strong bases

10.6. Hazardous decomposition products
Carbon monoxide, Carbon dioxide (CO2), possible in traces, phenol, acetic acid, Aromatic compounds, Phenyl esters, Hydrogen fluoride

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

SECTION 12: Ecological information

Ecotoxicological data are not available. Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product information
Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Uncleaned empty packaging
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

European Waste Catalogue
HF must be removed by flue gas scrubbing 150102: Packages from plastics

SECTION 14: Transport information

ADR/RID
Not regulated

ADN
Not regulated

ICAO/IATA
Not restricted

IMDG
Not regulated

SECTION 15: Regulatory information

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

Water Hazard Class (WGK):
WGK Class
nwg
WGK Reg. No.
766
WGK Source
Classification according to VvVwS, Annex 1 or 2

15.2 Chemical Safety Assessment
Chemical Safety Assessment (CSA) is not required

Authorization - Reach Regulation, Title VII
This substance does not meet the criteria

SECTION 16: Other information
### SECTION 16: Other information

**Color code(s)**  
VA3031, VF3001, VL3159

**Other Information:**  
• Observe national and local legal requirements  
• Except as otherwise noted, all of the trademarks referenced herein are owned by Ticona or its affiliates.

Changes against the previous version are marked by ***

**Training advice**  
Training advice. Make sure that employees are aware of the hazards / risks as detailed on this Safety Data Sheet.

**Sources of key data used to compile the datasheet**  
Information contained in this safety data sheet is based on Celanese owned data and public sources deemed valid or acceptable. The absence of data elements required by ANSI or 1907/2006/EC indicates that no data meeting these requirements is available.

**Further information**  
This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality.

**Abbreviation and Acronym:**  
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  
ICAO = International Civil Aviation Organization  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS = European Inventory of Existing Commercial Chemical Substances  
CAS = Chemical Abstracts Service (division of the American Chemical Society)  
CLP = Classification, Labelling and Packaging  
DNEL = Derived No Effect Level  
PNEC = Predicted No Effect Concentration

**Annex: Exposure Scenario(s)**  
Development of Exposure Scenario is not required
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<th>MSDS number</th>
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