

Product name Vandar
MSDS number 870310031
Revision Number 1.01

EUGB/EN
Revision Date May.31.2015
Issuing date Jun.11.2015***

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

1.1. Product identifier

Product name
Vandar

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

Product Grade(s):
8000, 8000A

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

TICONA GmbH
Am Unisys-Park 1
65843 Sulzbach
Germany

SDS Contact (email of responsible person)

Telephone: +49 (0)180-584 2662
FAX: +49 (0)180 - 202 1202
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)

<u>Classification</u>	Category
Hazards Carcinogenicity	Category 2

2.2. Label elements

Safety data sheet according to regulation (EC) Nr. 1907/2006

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Exempt from obligatory labelling according to the CLP-Regulation (EC) No 1272/2008 Art. 23 d) in connection with Annex I, part 1, section 1.3, subsection 1.3.4.1: Metals in massive form, alloys, mixtures containing polymers and mixtures containing elastomers do not require a label according to this Annex, if they do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market, although classified as hazardous in accordance with the criteria of this Annex.

Symbol(s)



Signal Word

Warning***

Hazard Statements

H351 - Suspected of causing cancer

Precautionary Statements

P281 - Use personal protective equipment as required
P308 + P313 - IF exposed or concerned: Get medical advice/ attention

2.3 Other Hazards

The mixture does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

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SECTION 3: Composition/information on ingredients

Chemical characterization Polybutylene Terephthalate / PBT; Basic CAS-RN: 30965-26-5 and 26062-94-2 with flame retardant

3.1. Substances not applicable

3.2. Mixtures Details provided in the tables below

Components	CAS-No	EC-No.	Identification Number	Percent %
Antimony trioxide	1309-64-4	215-175-0	051-005-00-X	< 8.0

Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures, Annex VI, Table 3.1

Components	1272/2008/EC (CLP)	Hazard Statements
Antimony trioxide	Carcinogenicity - Category 2	H351

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

5.2. Special hazards arising from the substance or mixture

Carbon monoxide
Carbon dioxide (CO₂)
Hydrogen halides
Sb(x)O(y)Br(z) compounds

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5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Other Information

Keep people away from and upwind of fire.

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 Clean skin thoroughly after work; apply skin cream Do not inhale dust particles, during processing glass or glass dust particles are set free and cause irritation to the respiratory passage Wash hands before breaks and at the end of workday.

Advice on safe handling

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Avoid dust formation.

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

Material storage

Keep in a dry, cool place.

Incompatible products

strong bases

Technical measures/Storage conditions

No special storage conditions required.

German storage class

11: Combustible solids

7.3. Specific end use(s)

None known

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Components	TWA
Antimony trioxide	0.5 mg/m ³

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. Avoid contact with skin and eyes.

Hygiene measures When using, do not eat, drink or smoke Clean skin thoroughly after work; apply skin cream Do not inhale dust particles, during processing glass or glass dust particles are set free and cause irritation to the respiratory passage Wash hands before breaks and at the end of workday.

Respiratory protection Wear dust mask when handling large quantities.

Eye protection safety glasses with side-shields

Skin protection Avoid contact with skin

Hand protection Chemicals resistant gloves

Suitable material Type Butyl-rubber
 Butoject (Company KCL) or comparable article;
 or refer to glove manufacturer's recommendation
 according to EN 374: level 6

Evaluation Material thickness approx. 0.3 mm

Break through time 480 min

Environmental exposure controls

Do not discharge into the drains/surface waters/groundwater

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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

Flash point Not applicable
Ignition temperature >420°C
Density approx 1.38 - 1.55 g/ml @ 20°C
Bulk density approx 600 - 900 kg/m³ @ 20 °C
Water solubility insoluble
VOC Content(%) None

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 > 288°C.

10.3. Possibility of hazardous reactions

None anticipated.

10.4. Conditions to avoid

Flame. Avoid temperatures above 271 °C / 520 °F.

10.5. Incompatible Materials

strong bases

10.6. Hazardous decomposition products

No hazardous decomposition products are known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

When handled appropriately, even after long years of experience with this product, no adverse health effects are known. Antimontrioxide is fixed inside the polymer granulate. Therefore there is no health hazard regarding dust formation of Antimontrioxide..

SECTION 12: Ecological information

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

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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.

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): not water endangering
WGK Class 766
WGK Source KBwS classification

15.2 Chemical Safety Assessment

Chemical Safety Assessment (CSA) is not required

SECTION 16: Other information

Color code(s)
MD3060, MF2001, MG3164

Other Information:

- Except as otherwise noted, all of the trademarks referenced herein are owned by Ticono or its affiliates.

Changes against the previous version are marked by ***

Training advice

Make sure that employees are aware of the hazards / risks as detailed on this Safety Data Sheet. When wearing a breathing apparatus, the need for appropriate training needs to be considered.

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..

Safety data sheet according to regulation (EC) Nr. 1907/2006



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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

PBT = Persistent, Bioaccumulative and Toxic

vPvB = very Persistent and very Bioaccumulative

R-Phrases = Risk Phrases

S-Phrases = Safety Phrases

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

Annex: Exposure Scenario(s)

Development of Exposure Scenario is not required