

SAFETY DATA SHEET**VESTAMID® Care ML21**

Material no.	99077596	Version	2.9 / US
Specification	175371	Revision date	11/30/2016
Order Number	05478934	Print Date	03/01/2017
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1. Identification**1.1. Product identifier**

Trade name VESTAMID® Care ML21

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified Moulding mass for thermoplastic processing into technical semi-finished products and structural elements

1.3. Details of the supplier of the safety data sheet

Company Evonik Corporation USA
299 Jefferson Road
Parsippany, NJ 07054-0677
USA

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Email address Product-Regulatory-Services@Evonik.com

1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC - US & CANADA: 800-424-9300

CHEMTREC MEXICO: 01-800-681-9531

CHEMTREC INTERNATIONAL: +1 703-527-3887 (collect calls accepted)

Product Regulatory Services : 973-929-8060

2. Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation 29CFR 1910.1200

Remarks Not a hazardous substance or mixture.

2.2. Label elements

Statutory basis Classification according to Regulation 29CFR 1910.1200

Remarks Not a hazardous substance or mixture.

2.3. Other hazards

Fumes from hot processing may be irritating to eyes and respiratory tract.

Risk of skin burns caused by hot melt.

Inhalation Fumes from hot processing may cause irritation.

Skin In case of burns by molten product medical treatment is necessary.

Eyes Fumes from hot processing may cause eye irritation.

Ingestion No hazard expected in normal use.

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Fine dust, which may be formed through abrasion during transport or handling, can form explosive mixtures with air

3. Composition/information on ingredients**Chemical nature**

moulding compound on the base: polyamide

Other information

This sheet describes a group of products. It only contains safety-relevant data. For specific data, see Product Information sheet.

4. First aid measures**4.1. Description of first aid measures****General advice**

First aider needs to protect himself.
Remove from exposure, lie down.
Keep at rest.
Do not leave the victim unattended.

Inhalation

In case of symptoms of irritation caused by vapours in thermal processing: Provide fresh air, seek medical advice if necessary.
If breathed in, move person into fresh air.

Skin contact

Cool melted product on skin with plenty of water. Do not remove solidified product.
Consult a physician.

Eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
If eye irritation persists, consult a specialist.

Ingestion

Seek medical advice.

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

Product dust may be irritating to eyes, skin and respiratory system.

Hazards

Risk of skin burns caused by hot melt.

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

Continue with first aid measures.
Depending on the pathology and clinical findings, patient monitoring and symptomatic treatment are necessary.

5. Fire-fighting measures**5.1. Extinguishing media**

Suitable extinguishing media: Water spray jet, Foam, Carbon dioxide (CO₂), Dry powder

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

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May be released in case of fire: carbon monoxide, carbon dioxide, nitric oxides, organic products of decomposition.

Under certain fire conditions, traces of other toxic products may occur. Avoid generating dust.

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.3. Advice for firefighters

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust. Ventilate the area.

6.2. Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

6.3. Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

Dusts might form explosive mixtures with air. Remove all sources of ignition. Use only non-sparking tools.

Additional advice

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

If dust is present, control smoking, open flames, sparks, static electricity and friction heat.

7. Handling and storage**7.1. Precautions for safe handling**

Avoid dust formation. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Protect from moisture. Avoid exceeding the given occupational exposure limits (see section 8). In thermal processing: Risk of skin burns. Minimize dust generation and accumulation. Keep away from all ignition sources including heat, sparks and flame.

7.2. Conditions for safe storage, including any incompatibilities**Advice on protection against fire and explosion**

Take precautionary measures against static discharges.

During processing, dust may form explosive mixture in air.

Minimize dust generation and accumulation.

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Storage

Keep container tightly closed. Store in a cool and dry place.

Storage stability

Stable under recommended storage conditions.

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8. Exposure controls/personal protection**8.1. Control parameters**

• exposure limit for dust		
CAS-No.		
Control parameters	3 mg/m3	Time Weighted Average (TWA):(ACGIH)
type of exposure	Respirable particles.	
Control parameters	10 mg/m3	Time Weighted Average (TWA):(ACGIH)
type of exposure	Inhalable particles.	
Control parameters	10 mg/m3	Time Weighted Average (TWA) Permissible Exposure Limit (PEL)(US CA OEL)
type of exposure	Total dust.	
Control parameters	5 mg/m3	Time Weighted Average (TWA) Permissible Exposure Limit (PEL)(US CA OEL)
type of exposure	Respirable fraction.	
Control parameters	15 mg/m3	Time Weighted Average (TWA):(Z3)
type of exposure	Total dust.	
Control parameters	5 mg/m3	Time Weighted Average (TWA):(Z3)
type of exposure	Respirable fraction.	
Control parameters	50millions of particles per cubic foot of air	Time Weighted Average (TWA):(Z3)
type of exposure	Total dust.	
Control parameters	15millions of particles per cubic foot of air	Time Weighted Average (TWA):(Z3)
type of exposure	Respirable fraction.	

8.2. Exposure controls**Engineering measures**

In case of thermal processing, provide for extraction of the vapours or adequate ventilation.

Avoid dust formation.

Dust must be extracted directly at the point of origin.

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Use only appropriately classified electrical equipment and powered industrial trucks.

Personal protective equipment**Respiratory protection**

Do not breathe dust.

In the case of dust or aerosol formation use respirator with an approved filter.

Note time limit for wearing respiratory protective equipment.

In the case of vapour formation use a respirator with an approved filter.

Respirator with filter for organic vapour

Note time limit for wearing respiratory protective equipment.

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

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Hand protection

The wearing of protective gloves is not required if the granulate in question is handled at room temperature.

Any areas of skin covered with dust must be washed immediately with soap and water as the powder draws out natural moisture from the skin.

Use barrier cream regularly.

Protective heat-insulating gloves are to be used during thermal processing.

Eye protection

Safety glasses

Skin and body protection

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures

Wash contaminated clothing before re-use.

Wash hands before breaks and at the end of workday.

Do not eat, drink or smoke during use.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

physical state	solid
Colour	natural colour
Form	granular
Odour	odourless
Odour Threshold	not determined Not required by safety or application considerations.
pH	not applicable
Melting point/range	165 - 190 °C
Boiling point/range	not applicable Decomposition
Flash point	not applicable
Evaporation rate	not applicable
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	see Explosiveness
Upper explosion limit	see Explosiveness
Vapour pressure	not applicable
Vapour density	not applicable
Relative vapour density	no data available
Relative density	1.0 - 1.2 (20 °C)

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Water solubility insoluble

Partition coefficient: n-octanol/water no data available
Not required by safety or application considerations.

Autoignition temperature > 350 °C

Thermal decomposition > 300 °C

Viscosity, dynamic no data available
Not required by safety or application considerations.

9.2. Other information

Explosiveness Not explosive
Dusts might form explosive mixtures with air.

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

peroxides The substance or mixture is not classified as organic peroxide.

formation of flammable gases The substance or mixture does not emit flammable gases in contact with water.

Metal corrosion Not corrosive to metals

Other information The range of values given complies with the variation range of the product group.
The specific physical chemical data can be read in the product information.

10. Stability and reactivity**10.1. Reactivity**

Under normal conditions: stable.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Do not bring hot smelter into contact with water (steam formation!)

10.4. Conditions to avoid

Keep away from all ignition sources including heat, sparks and flame.
Extremes of temperature and direct sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Decomposition products on thermal decomposition
carbon monoxide, carbon dioxide, Nitrogen oxides (NOx), organic products of decomposition

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11. Toxicological information**11.1. Information on toxicological effects**

carcinogenicity assessment No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

Further information No toxicological tests have been conducted with the product itself.

12. Ecological information**12.1. Toxicity**

Toxicity to fish no data available

12.2. Persistence and degradability

Biodegradability no data available

Further Information no data available

12.3. Bioaccumulative potential

Bioaccumulation no data available

12.4. Mobility in soil

Mobility no data available.

12.5. Other adverse effects

Further Information No ecotoxicological studies are available.

13. Disposal considerations**13.1. Waste treatment methods****Product**

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method.

Uncleaned packaging

Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

14. Transport information

Not dangerous according to transport regulations.

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- 14.1. UN number: --
- 14.2. UN proper shipping name: --
- 14.3. Transport hazard class(es): --
- 14.4. Packing group: --
- 14.5. Environmental hazards (Marine pollutant): --
- 14.6. Special precautions for user: Yes
Not dangerous according to transport regulations.

15. Regulatory information**US Federal Regulations****OSHA**

If listed below, chemical specific standards apply to the product or components:

- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- No SARA Hazards

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

State Regulations**California Proposition 65**

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

USA (TSCA)	listed/registered
Canada (DSL)	listed/registered
Australia (AICS)	listed/registered
Japan (MITI)	listed/registered
Korea (KECI)	listed/registered
Philippines (PICCS)	listed/registered
China	listed/registered
New Zealand	listed/registered

Information on additional inventories on request.

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

HMIS Ratings

Health :	1
Flammability :	1
Physical Hazard :	0

16. Other information**Further information**

Further information Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling information.

Revision date 11/30/2016

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend

ACC	American Chemistry Council
ACGIH	American Conference of Governmental Industrial Hygienists
ACS	Advisory Committee on Sustainability
ADI	Acceptable Daily Intake
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BOD	Biochemical oxygen demand
c.c.	closed cup
CAO	Cargo Aircraft Only
Carc	Carcinogen
CAS	Chemical Abstract Services
CDN	Canada
CEPA	Canadian Environmental Protection Act
CERCLA	Comprehensive Environmental Response – Compensation and Liability Act
CFR	Code of Federal Regulations
CMR	carcinogenic-mutagenic-toxic for reproduction
COD	Chemical oxygen demand
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
DOT	Department of Transportation
EC50	half maximal effective concentration
EPA	Environmental Protection Agency
ErC50	Reduction of Growth Rate
ERG	Emergency Response Guide Book
FDA	Food and Drug Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
HCS	Hazard Communication Standard
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO-TI	International Civil Aviation Organization- Technical Instructions
ICCA	International Council of Chemical Association
ID	Identification number
IMDG	International Maritime Dangerous Goods
IUPAC	International Union of Pure and Applied Chemistry
ISO	International Organization For Standardization
LC50	50 % Lethal Concentration
LD50	50 % Lethal Dose
L(E)C50	LC50 or EC50
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association

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NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
RQ	Reportable Quantity
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
UN	United Nations
vPvB	very persistent, very bioaccumulative
voc	volatile organic compounds
WHMIS	Workplace Hazardous Materials Information System
WHO	World Health Organization