

**SAFETY DATA SHEET****TROGAMID® Care MX73 natural-coloured**

Material no.	99028191	Version	2.9 / US
Specification	175375	Revision date	11/30/2016
Order Number	05531832	Print Date	03/22/2017
		Page	1 / 10

**1. Identification****1.1. Product identifier**

Trade name TROGAMID® Care MX73 natural-coloured

**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

Telephone 973-929-8000

Telefax 973-929-8040

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**

Dust can occur through abrasion if the granulate is subjected to mechanical loading.

Risk of skin burns caused by hot melt.

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

Inhalation Dust or fumes from hot processing may cause irritation.

Skin Contact with hot product will cause thermal burns.

Eyes Dust may cause irritation.

Fumes from hot processing may cause eye irritation.

**SAFETY DATA SHEET****TROGAMID® Care MX73 natural-coloured**

Material no.	99028191	Version	2.9 / US
Specification	175375	Revision date	11/30/2016
Order Number	05531832	Print Date	03/22/2017
		Page	2 / 10

Ingestion

No hazard expected in normal use.

---

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

polyamide, microcrystalline

**Other information**

While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

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**

Pay attention to self-protection.

Move out of dangerous area.

Keep warm, position comfortably, and cover well.

Do not leave affected persons unattended.

**Inhalation**

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

Following inhalation of product dust: See that there is fresh air.

**Skin contact**

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

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

**Eye contact**

Rinse with plenty of water.

**Ingestion**

Not applicable; not an expected route of exposure.

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

No experiences of acute or chronic damages in humans have been made as yet.

**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, foam, CO2, dry powder.

Unsuitable extinguishing media: high volume water jet

**SAFETY DATA SHEET****TROGAMID® Care MX73 natural-coloured**

Material no.	99028191	Version	2.9 / US
Specification	175375	Revision date	11/30/2016
Order Number	05531832	Print Date	03/22/2017
		Page	3 / 10

**5.2. Special hazards arising from the substance or mixture**

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.

**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.

Have ready/wear respiratory protection equipment.

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

In case product dust is released: Dust mask

**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.

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

Avoid dust formation. Provide for appropriate exhaust ventilation and dust collection at machinery. In case of thermal processing, provide for extraction of the vapours or adequate ventilation.

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

General rules of fire prevention should be observed.

If dusts are formed: Take precautionary measures against static charges, keep away from sources of ignition.

**Storage**

Store dry. Close container tightly

**Storage stability**

Stable under recommended storage conditions.

**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.	

**SAFETY DATA SHEET****TROGAMID® Care MX73 natural-coloured**

Material no.	<b>99028191</b>	Version	<b>2.9 / US</b>
Specification	<b>175375</b>	Revision date	<b>11/30/2016</b>
Order Number	<b>05531832</b>	Print Date	<b>03/22/2017</b>
		Page	<b>4 / 10</b>

Control parameters	15 mg/m <sup>3</sup>	Time Weighted Average (TWA):(Z3)
type of exposure	Total dust.	
Control parameters	5 mg/m <sup>3</sup>	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.

In case of dust being formed, provide for adequate extraction.

**Personal protective equipment****Respiratory protection**

The wearing of a dust mask is sufficient in the event of dust occurring, e.g. during conveyance of the granulate or filter cleaning operations.

Do not inhale vapours from hot product.

Should vapours inadvertently manage to permeate into the surrounding air during thermal processing, then gas masks fitted with filters designed to combat organic vapours (e.g. A 2) or breathing apparatus with an independent air supply are to be worn.

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.

**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**

A safety shower and eye wash fountain should be readily available.

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**

Do not wear contaminated clothing.

Wash hands before breaks and at the end of workday.

Smoking, eating and drinking should be prohibited in the application area.

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

physical state                      solid

**SAFETY DATA SHEET****TROGAMID® Care MX73 natural-coloured**

Material no.	99028191	Version	2.9 / US
Specification	175375	Revision date	11/30/2016
Order Number	05531832	Print Date	03/22/2017
		Page	5 / 10

Colour	natural colour
Form	granular
Odour	odourless
Odour Threshold	not determined Not required by safety or application considerations.
pH	not applicable
Melting point/range	258 °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	ca. 1.02 (20 °C)
Water solubility	practically insoluble
Partition coefficient: n-octanol/water	no data available Not required by safety or application considerations.
Autoignition temperature	no data available Not required by safety or application considerations.
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	The substance or mixture does not emit flammable gases in contact with

**SAFETY DATA SHEET****TROGAMID® Care MX73 natural-coloured**

Material no.	99028191	Version	2.9 / US
Specification	175375	Revision date	11/30/2016
Order Number	05531832	Print Date	03/22/2017
		Page	6 / 10

gases	water.
Bulk density	ca. 620 kg/m <sup>3</sup>
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**

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 (NO<sub>x</sub>), organic products of decomposition

---

**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**

Further Information      no data available

**12.3. Bioaccumulative potential**

Bioaccumulation      no data available

**SAFETY DATA SHEET****TROGAMID® Care MX73 natural-coloured**

Material no.	99028191	Version	2.9 / US
Specification	175375	Revision date	11/30/2016
Order Number	05531832	Print Date	03/22/2017
		Page	7 / 10

**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.**

- 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

**SAFETY DATA SHEET****TROGAMID® Care MX73 natural-coloured**

Material no.	99028191	Version	2.9 / US
Specification	175375	Revision date	11/30/2016
Order Number	05531832	Print Date	03/22/2017
		Page	8 / 10

**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.

**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
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.



**SAFETY DATA SHEET****TROGAMID® Care MX73 natural-coloured**

Material no.	99028191	Version	2.9 / US
Specification	175375	Revision date	11/30/2016
Order Number	05531832	Print Date	03/22/2017
		Page	9 / 10

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.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

**Legend**

<b>ACC</b>	American Chemistry Council
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ACS</b>	Advisory Committee on Sustainability
<b>ADI</b>	Acceptable Daily Intake
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BOD</b>	Biochemical oxygen demand
<b>c.c.</b>	closed cup
<b>CAO</b>	Cargo Aircraft Only
<b>Carc</b>	Carcinogen
<b>CAS</b>	Chemical Abstract Services
<b>CDN</b>	Canada
<b>CEPA</b>	Canadian Environmental Protection Act
<b>CERCLA</b>	Comprehensive Environmental Response – Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>COD</b>	Chemical oxygen demand
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level

**SAFETY DATA SHEET****TROGAMID® Care MX73 natural-coloured**

Material no.	<b>99028191</b>	Version	<b>2.9 / US</b>
Specification	<b>175375</b>	Revision date	<b>11/30/2016</b>
Order Number	<b>05531832</b>	Print Date	<b>03/22/2017</b>
		Page	<b>10 / 10</b>

<b>DOT</b>	Department of Transportation
<b>EC50</b>	half maximal effective concentration
<b>EPA</b>	Environmental Protection Agency
<b>ErC50</b>	Reduction of Growth Rate
<b>ERG</b>	Emergency Response Guide Book
<b>FDA</b>	Food and Drug Administration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>HCS</b>	Hazard Communication Standard
<b>HMIS</b>	Hazardous Materials Identification System
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA</b>	International Air Transport Association
<b>IBC</b>	Intermediate Bulk Container
<b>ICAO-TI</b>	International Civil Aviation Organization- Technical Instructions
<b>ICCA</b>	International Council of Chemical Association
<b>ID</b>	Identification number
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IUPAC</b>	International Union of Pure and Applied Chemistry
<b>ISO</b>	International Organization For Standardization
<b>LC50</b>	50 % Lethal Concentration
<b>LD50</b>	50 % Lethal Dose
<b>L(E)C50</b>	LC50 or EC50
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>MARPOL</b>	International Convention for the Prevention of Pollution from Ships
<b>NFPA</b>	National Fire Protection Association
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>RQ</b>	Reportable Quantity
<b>SDS</b>	Safety Data Sheet
<b>STOT</b>	Specific Target Organ Toxicity
<b>UN</b>	United Nations
<b>vPvB</b>	very persistent, very bioaccumulative
<b>voc</b>	volatile organic compounds
<b>WHMIS</b>	Workplace Hazardous Materials Information System
<b>WHO</b>	World Health Organization