Safety Data Sheet

according to EC Regulation n. 1907/2006 (REACH) – EU Regulation n. 830/2015

Revision 2 of 14/07/2017

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

1.1. Product identifier

Mixture identification:

Trade name: **TAROLOX 111 G DX0 – DX02 – DX03– DSX03**
(see product list at point 16)

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

Recommended use:
Polymeric moulding compound

1.3. Details of the supplier of the safety data sheet

Company:
TARO PLAST SPA
Strada Diolo 57/A
I-43019 Soragna (PR)
Tel. +39 0524596711
Fax +39 0524599084
e-mail: taroplast@taroplast.com
Tel. +39 0524596711
Fax +39 0524599084
Competent person responsible for the safety data sheet:
taroplast@taroplast.com

1.4. Emergency telephone number

office hours (8:30 to 17:00)
Tel. +39 0524596711
Fax +39 0524599084

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

Contact with molten product may cause thermal burns.

Spilled product may cause a slipping hazard.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
<3 %	sodium antimonate	Index number: CAS: 15432- 85 - 6 EC:	3.1/4/Inhal Acute Tox. 4 H332 3.1/4/Oral Acute Tox. 4 H302 4.1/C2 Aquatic Chronic 2 H411

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Product, at ambient conditions, is not expected to be hazardous by skin contact. Should irritation occur, rinse with water and soap.

In case of contact with molten material, wash with plenty of water. Do not attempt to remove solidified polymer from skin.

In case of eyes contact:

In case of irritation caused by fine dust, rinse with water until irritation dissapears.

In case of contact with molten plastic, wash immediately with cold water and seek medical attention.

In case of Ingestion:

No specific measures. Seek a medical examination and present the safety-data sheet.

In case of Inhalation:

Product fine dust may cause mild respiratory irritation. Ventilate the premises.

In case of irritation from inhalation of processing fumes, remove the patient from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment: None in particular

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray, CO_2, Foam, Chemical powders, (sand or earth only for small fires), according to the materials involved in the fire.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion fumes.

Combustion products: carbon monoxide (CO), carbon dioxide (CO_2).

At elevated temperature temperatura > 195℃ may be generated acetaldehyde (CAS# 75-07-0).

In certain fire conditions, can not be excluded the presence of traces of other toxic substances.

Formation of further decomposition products depends upon the fire conditions.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. If feasible in terms of safety, move from immediate hazard undamaged containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid the formation of dust
Use gloves and protective clothing, while handling molten material.
Spilled product may cause a slipping hazard.
Wear personal protection equipment. Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Meccanically recover the product for re-use if possible, or for elimination.
Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Take proper precautions when transferring, including grounding all equipment and providing an inert atmosphere to prevent electrostatic charge formation. Avoid dust accumulation.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recomened protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed containers in a dry place, not exposed to direct sunlight. Avoid extreme heat.
Avoid all sources of ignition: heat, sparks, open flame.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limitis of the substane contained:

- *CAS: 15432-85-6 Sodium antimonate*

TLV TWA: 0.5 mg/m3 (antimonium and other substance like Sb)
The exposure limit is not reached if the product is used in accordance with good handiling and there is a suitable ventilation system.

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Precautionary measures:
Give adequate ventilation to the premises where the product is stored and/or handled. The molten polymer or the drying at a temperature > 195℃ may produce small amounts of acetaldehyde (CAS# 75-07-0).

Eye protection:

Wear eye protection during operations at high temperature.

Anyway, operate according good working practices.

Protection for skin:

Wear clothing that provide protection to the skin during operation at high temperature. Immediately remove any clothing contaminated by molten material.

Protection for hands:

Not needed for normal use. Wear gloves to prevent contact during hot melt conditions.

Respiratory protection:

Not needed for normal use. Use protection for the respiratory tract during hot melt conditions.

Thermal Hazards:

Pay attention during high temperature operation. Contact with molten material may cause burns.

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	solid granulated – different colours	--	--
Odour:	odourless	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / melting range	250 -260 ℃	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	N.A.	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	> 1.40 g/cm3	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	>300℃	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions.
10.2. Chemical stability
Stable under normal conditions. Thermal decomposition at temperature > 300 °C.
10.3. Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.
10.4. Conditions to avoid
Stable under normal conditions. Keep away from open flames, sparks and ignition sources.
10.5. Incompatible materials
None in particular.
10.6. Hazardous decomposition products
At temperature > 300 °C: carbon monoxide, carbon di oxide, acetaldehyde (over 195°C).

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological information of the mixture:
N.A.
Toxicological information of the main substances found in the mixture:
Sodium antimonate: LD50 > 5000 mg/kg
If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:
a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard

SECTION 12:Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
N.A.
12.2. Persistence and degradability
Non-biodegradable
12.3. Bioaccumulative potential
N.A.
12.4. Mobility in soil
N.A.
12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. Other adverse effects
None

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number
Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name
N.A.
14.3. Transport hazard class(es)
N.A.
14.4. Packing group
N.A.
14.5. Environmental hazards
N.A.
14.6. Special precautions for user
N.A.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
None

Where applicable, refer to the following regulatory provisions :
Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
None

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

This MSDS is valid for the materials listed below:

- TAROLOX 111 G* DX0
- TAROLOX 111 G* DX02
- TAROLOX 111 G* DX03
- TAROLOX 111 G* DSX03

available versions: H, L, W, S, Z, G* (where G = glass fiber and * = from 2 to 10)

Text of phrases referred to under heading 3:
H332 Harmful if inhaled.
H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.