Safety Data Sheet

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

Version 3, dated 17/01/2018

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

1.1. Product identifier

Mixture identification:

Trade name: **NILENE E* V0 – NILENE E* V2**
NILENE P* V0 – NILENE P* V2
(see product list at point 16)

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

Reccomende use: Polypropylene moulding compound – industrial use.

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

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):

Warning, Carc. 2, Suspected of causing cancer.

Properties / Symbols:

According to the CLP Regulation the product is classified as "Carcinogen cat.2" (Suspected of causing cancer), and (Suspected of damaging fertility or the fetus by inhalation and in contact with the skin) for the content of hazardous ingredient (trioxide of antimony) listed in section 3).

The product is a compound consisting of an inert polymer containing specific components; any contamination risks connected to them are minimized, as said components are dispersed and completely incorporated in the basic polymeric matrix.
The mixture is not dangerous for the health in the form in which it is placed on the market.

Adverse physicochemical, human health and environmental effects:

No other hazards.

2.2. Label elements

The product does not need to be labeled according to Regulation EC 1272/2008 (CLP) art. 23 - (Annex I – 1.3.4)

Hazard pictograms:

Warning

Hazard statements:

H351 Suspected of causing cancer.

Precautionary statements:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions: none
Material safety data sheet available for professional use on request.
Contains
antimony trioxide
Special provisions according to Annex XVII of REACH and subsequent amendments:
None
2.3. Other hazards
vPvB Substances: None - PBT Substances: None
Other Hazards:
Spilled product may cause a slipping hazard.
Contact with molten product may cause thermal burns

SECTION 3: Composition/information on ingredients

3.1. Substances
N.A.
3.2. Mixtures
Compound of PP (polypropylene) - flame retardants and filling additives
Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
<5 %	antimony trioxide	Index number:051-005-00-X CAS: 1309-64-4 EC: 215-175-0 REACH No.: 01-2119475613-35-XXXX	 3.6/2 Carc. 2 H351
<2 %	Zinc borate	CAS: 138265-88-0 REACH No.: 01-211969165 8-19-XXXX	 3.7/2 Repr. 2 H361  4.1/A1 Aquatic Acute 1 H400  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.
Remove contaminated clothing and dispose off safely.
Do not attempt to remove solidified polymer from skin.
In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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.

Remove casualty to fresh air and keep warm and at rest. 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
Water. Carbon dioxide (CO2). 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 gases.
Burning produces heavy smoke. Avoid inhaling the fumes. Combustion products: carbon monoxide (CO), keto acids, dense and opaque smoke. Under certain fire conditions it can not be ruled out the presence of traces of other toxic substances. The production 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.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid dust formation.
Wear personal protection equipment. Use protective gloves, during processing of the molten material.
Spills of the product on the floor, can cause slip hazard
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 gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up
Collect the product with mechanical means for re-use if possible, or for elimination.

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, inhalation of vapours and mists. Avoid dust formation.
Wear personal protection equipment. Use protective gloves, during processing of the molten material.
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 recommended 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

antimony trioxide - CAS: 1309-64-4

ACGIH - Notes: (L), A2 - Lung cancer, pneumoconiosis

DNEL Exposure Limit Values

antimony trioxide - CAS: 1309-64-4

Worker Professional: 281 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 0.5 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects

zinc borate - CAS: 138265-88-0

Worker Professional: 250 mg/kg - Consumer: 125 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 8.75 mg/m3 - Consumer: 2.19 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 0.25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

antimony trioxide - CAS: 1309-64-4

Target: Fresh Water - Value: 0.113 mg/l
Target: Marine water - Value: 0.0113 mg/l
Target: Soil (agricultural) - Value: 37 mg/kg - Notes: dw
Target: Marine water sediments - Value: 2.24 mg/kg - Notes: dw
Target: Freshwater sediments - Value: 11.2 mg/kg - Notes: dw

zinc borate - CAS: 138265-88-0

Target: Fresh Water - Value: 1.35 mg/l

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.
Use close fitting safety goggles during the high temperature operations. Don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton during the high temperature operations.
Immediately remove any clothing soiled by the melted material.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
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 product may cause thermal 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	>100°C	--	--
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:	>1.0 g/cm3	--	--
Solubility in water:	insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	>350°C	--	--
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. During processing do not exceed melt temperature recommendations.

10.2. Chemical stability

Stable under normal conditions (see section 7 – Storage and handling reccomendations).
Thermal decomposition > 350°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. During processing do not exceed melt temperature recommendations (see product datasheet / product specification). Avoid grinding and pulverizing.

10.5. Incompatible materials
None in particular.

10.6. Hazardous decomposition products
carbon monoxide, carbon dioxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:
N.A.

Toxicological information of the main substances found in the product:
antimony trioxide - CAS: 1309-64-4
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 20000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 5200 mg/l - Duration: 4h
Test: LD50 - Route: Skin - Species: Rabbit > 8300 mg/kg
f) carcinogenicity:
Carcinogenicity, Category 2

Zinc borate - CAS: 138265-88-0
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

If not differently specified, the information required in Regulation (EU)2015/830 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.

Toxicological information of the product:
N.A.

Toxicological information of the main substances found in the product:
antimony trioxide - CAS: 1309-64-4
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 6.9 mg/l - Duration h: 96
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish > 1.13 mg/l - Duration h: 672
f) Effects in sewage plants:

Endpoint: EC50 > 25.5 mg/l - Duration h: 96
Zinc borate - CAS: 138265-88-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 0.169 mg/l - Duration h: 96 - Notes: referred to hexaboron dizinc undecaoxide
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia = 0.039 mg/l - Duration h: 504

12.2. Persistence and degradability
Non-biodegradable
12.3. Bioaccumulative potential
N.A.
12.4. Mobility in soil
The product remains in the soil surface.
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)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 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 document is valid for the materials listed below:

- NILENE E* V0
- NILENE E* K**VA V0
- NILENE E* K**TV V0
- NILENE E* K**VT V0
- NILENE E* K**T V0

- NILENE E* V2
- NILENE E* K**VA V2
- NILENE E* K**TV V2
- NILENE E* K**VT V2
- NILENE E* K**T V2

- NILENE P* K**VA V0
- NILENE P* K**TV V0
- NILENE P* K**VT V0
- NILENE P* K**T V0

- NILENE P* K**VA V2
- NILENE P* K**TV V2
- NILENE P* K**VT V2
- NILENE P* K**T V2

where: * = every fluidity grade from 1 to 150
** = from 5 to 70 (T: talcum, VA: fiber glass, VT-TV: talcum-fiber glass)
available versions: AT, L, S, D, WOD

Text of phrases referred to under heading 3:
H351 Suspected of causing cancer.

Hazard class and hazard category	Code	Description
Carc. 2	3.6/2	Carcinogenicity, Category 2
Repr. 2	3.7/2	Reproductive toxicity, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

This safety data sheet has been completely updated in compliance to Regulation 2015/830.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Carc. 2, H351	Calculation method

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.