

Safety Data Sheet

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

Version 3, dated 23/02/2017

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

1.1. Product identifier

Mixture identification:

Trade name: **TAROPRENE 1A V0 - TAROPRENE 1A V1 - TAROPRENE 1A V2
TAROPRENE 1D V0 - TAROPRENE 1D V1 - TAROPRENE 1D V2**
(see product list at point 16)

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

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)

In the polymer compound the dangerous ingredients are completely incorporated and surrounded by the polymer matrix, the exposure and the risk related to them are deleted. The mixture is not dangerous for health in the form in which it is placed on the market.

Special Provisions:

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

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

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SECTION 3: Composition/information on ingredients


3.1. Substances

N.A.

3.2. Mixtures

TPV compound_self extinguishing

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

Qty	Name	Ident. Number	Classification
<8 %	antimony trioxide	Index number: CAS: EC: 051-005-00-X 1309-64-4 215-175-0	 3.6/2 Carc. 2 H351

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash with plenty of water and soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately 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 Ingestion:

Do not under any circumstances induce vomiting. Seek a medical examination and present the safety-data sheet.

In case of Inhalation:

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

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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.

Contaminated 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

N.A.

PNEC Exposure Limit Values

N.A.

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The limit value is not achieved if the product is used according to good handling standards and there is a suitable ventilation system.

8.2. Exposure controls

Eye protection:

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:

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:	typical rubber	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / melting range	>150°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 - 1.3 g/cm ³	--	--
Solubility in water:	insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	>300°C	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

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Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Hardness:	from 25 sh A to 60 sh D		
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. HYGROSCOPIC MATERIAL

10.2. Chemical stability

Stable under normal conditions (see section 7 – Storage and handling recommendations). Thermal decomposition > 300°C

10.3. Possibility of hazardous reactions

None

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, ketonic acids (traces).

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

The ingredient of interest is closely linked in the polymer matrix of the product (practically not bioavailable). Due to its chemical and physical properties, the product does not seem to possess the toxicological properties that require special handling other than that good industrial hygiene and safety for the handling of any industrial material of this type.

Based on our experience and the information available, this product is not harmful to health when used and handled according to specifications.

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;

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j) aspiration hazard.

SECTION 12: Ecological information

- 12.1. Toxicity
 - Adopt good working practices, so that the product is not released into the environment.
 - antimony trioxide - CAS: 1309-64-4
 - b) Aquatic chronic toxicity:
 - Endpoint: NOEC - Species: Fish > 1.13 mg/l - Duration h: 672
- 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)

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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 document is valid for the materials listed below:

Taroprene 1Axx E6y zz V0	Taroprene 1Axx E6y zz V1	Taroprene 1Axx E6y zz V2
Taroprene 1Axx E8y zz V0	Taroprene 1Axx E8y zz V1	Taroprene 1Axx E8y zz V2
Taroprene 1Axx M6y zz V0	Taroprene 1Axx M6y zz V1	Taroprene 1Axx M6y zz V2
Taroprene 1Axx M8y zz V0	Taroprene 1Axx M8y zz V1	Taroprene 1Axx M8y zz V2
Taroprene 1Dxx E6y zz V0	Taroprene 1Dxx E6y zz V1	Taroprene 1Dxx E6y zz V2
Taroprene 1Dxx E8y zz V0	Taroprene 1Dxx E8y zz V1	Taroprene 1Dxx E8y zz V2
Taroprene 1Dxx M6y zz V0	Taroprene 1Dxx M6y zz V1	Taroprene 1Dxx M6y zz V2
Taroprene 1Dxx M8y zz V0	Taroprene 1Dxx M8y zz V1	Taroprene 1Dxx M8y zz V2

Where : xx = hardness (shore A from 25 to 90; shore D from 30 to 60)

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

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

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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.