



SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Product name: SELLADOR DE POLIURETANO TACSA

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

Relevant identified uses: Bonding and sealing.

1.3 Details of the supplier of the Safety Data Sheet

TECNOLOGÍA ARGENTINA EN CINTAS S.A. (TACSA)
Av. Felipe Pastre 1790, (B1686HRD) Hurlingham, Buenos Aires – Argentina.
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1.4 Emergency telephone number

Emergency phone (24 hours): CIQUIME 0800 222 2933 (from Argentina)
+54 11 4552 8747 (other countries)

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to the Globally Harmonized System

Skin irritation (Category 3) - Eye irritation (Category 2B)
Respiratory sensitization (Category 1A) - Skin sensitization (Category 1B)
Carcinogenicity (Category 2)
Reproductive toxicity (Category 1B)
Specific target organ toxicity – repeated exposure (Category 2)

2.2 Label elements

Pictogram:



DANGER

Signal word:

Hazard statements:

H316 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H320 - Causes eye irritation.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 - Suspected of causing cancer.
H360 - May damage fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.

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TECNOLOGÍA ARGENTINA EN CINTAS S.A.
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Precautionary statements:

P264 - Wash thoroughly after handling.

P280 - Wear protective gloves.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 - IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention.

P337 + P313 - IF EYE IRRITATION PERSISTS: Get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents / container in accordance with national / international regulations.

2.3 Other hazards

None.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Substance**

Does not apply.

3.2 Mixtures

IDENTIFICATION NAME	CAS No.	Weight %	CLASSIFICATION
Propane-1,2-diol, propoxylated	25322-69-4	> 30	Acute Tox. 4
Bis(2-ethylhexyl) phthalate	117-81-7	15 - 25	Carc. 2; Repr. 1B
Calcium carbonate	471-34-1	15 - 20	Not classified
Titanium dioxide	13463-67-7	15 - 20	Carc. 2
Carbon black	1333-86-4	10 - 25	Carc. 2
4,4'-Methylenediphenyl diisocyanate	101-68-8	10 - 15	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Resp. Sens. 1A; Skin Sens. 1B; STOT Single Exp. 3; STOT Rep. Exp. 2
p-Toluenesulphonyl isocyanate	4083-64-1	0 - 10	Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; Aquatic Acute 3

The product may contain hazardous components in proportions below the concentration limits established in the GHS and/or non-hazardous components not stated in this section. All known hazards of the product are reported in the SDS. Confidential information on the composition, if present, has been clarified.

SECTION 4 - FIRST AID MEASURES**4.1 Description of first aid measures**

General advice: Avoid exposure to the product, taking appropriate protective measures. Get medical advice.

Inhalation:	For those providing assistance, avoid exposure. Use proper protection if necessary. Move victim and get fresh air. Keep calm. If not breathing, give artificial respiration. Be alert to allergies or anaphylaxis. Get medical advice.
Skin contact:	Wash immediately after contact with soap and water for at least 15 minutes. May be used corn oil or a polyglycol-based skin cleanser. Remove contaminated clothing and wash before reuse.
Eye contact:	Immediately flush with water for at least 15 minutes, holding eyelids apart to ensure that all eye and lid tissues rinsed. Washing eyes within several seconds is essential to achieve maximum effectiveness. If you have contact lenses, remove them after the first 5 minutes, then continue rinsing eye. Get medical advice.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical advice. If vomiting occurs spontaneously, place victim on side to reduce the risk of aspiration.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: cough, sneezing, runny nose, headache, hoarseness and nose and throat pain.
Skin contact: adheres to the skin quickly. It causes skin irritation, localized redness, swelling, itching and dryness. It can cause allergic skin reaction, redness, swelling, blisters and itching.
Eye contact: adheres to the eyelids quickly. Causes severe eye irritation, significant redness, swelling, pain, tearing, cloudy appearance of the cornea and vision problems.
Ingestion: causes gastrointestinal irritation, abdominal pain, upset stomach, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice: Provide symptomatic treatment. May cause allergic reactions. For more information, contact a Poison Control Center.

SECTION 5 – FIREFIGHTING MEASURES

5.1 Extinguishing media

Use dry chemical, foam, sand or water spray. Use the product according to surrounding materials. DO NOT USE straight streams.

5.2 Special hazards arising from the substance or mixture

The product and its packaging can burn but they are not easily ignited.

5.3 Advice for firefighters

5.3.1 Firefighting instructions

Spray-water the packaging to avoid ignition if exposed to excessive heat or fire. Withdraw packaging if not reached by the flames and can be done without risk.

Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water.

5.3.2 Protective clothing

Use SCBA and structural protection clothing for firefighters.

5.3.3 Hazardous combustion products

In case of fire may release irritating and/or toxic fumes and gases, such as carbon monoxide and other substances derived from incomplete combustion.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate personnel to a ventilated area.

6.1.2 For emergency responders

In large spills wear protective clothing against chemicals. It may provide no thermal protection. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate personnel to a ventilated area. Ventilate immediately, especially where product may accumulate. Do not allow reuse of spilled product.

6.2 Environmental precautions

Contain product and avoid dispersion into the environment. Prevent product reaches waterways.

6.3 Methods and material for containment and cleaning up

Collect spillage with shovel and place into a suitable container. Clean and thoroughly wash the contaminated area. Dispose of the water and collected waste in marked containers for disposal as chemical waste.

6.4 Reference to other sections

See Section 8 - Exposure Controls and Personal Protection, and Section 13 – Disposal considerations.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not eat, drink or smoke during handling. Avoid contact with eyes, skin and clothing. Wash after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Store in a clean, dry, well-ventilated area. Keep containers/packages closed. TACSA guarantees this product for 12 months in unopened containers in a cool and dry storage place at temperatures between 5°C and 27°C, humidity between 30% and 70%.
Packaging materials:	Supplied by the manufacturer.
Incompatibilities:	Keep away from Strong oxidizing agents, acids and organic peroxides.

7.3 Specific end use(s)

Bonding and sealing.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

CMP (Res. MTESS 295/03):	0,005 ppm; MDI
CMP-CPT (Res. MTESS 295/03):	N/D
CMP-C (Res. MTESS 295/03):	N/D
TLV-TWA (ACGIH):	0,005 ppm; MDI
TLV-C (ACGIH):	0,01 ppm; MDI
PEL-C (OSHA 29 CFR 1910.1000):	0,02 ppm; MDI
IDLH (NIOSH):	75 mg/m ³ ; MDI
REL:	0,005 ppm; MDI

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Keep workplace ventilated. The normal routine ventilation is usually adequate. Local hoods should be used for operations that produce or release large amounts of product. In low or confined areas should be provided mechanical ventilation. Provide showers and eyewash stations.

8.2.2. Individual protection measures, such as personal protective equipment

Eye and face protection: Should wear safety glasses, chemical splash-proof (complying with EN 166).

Skin protection: When handling this product should wear impermeable protective PVC, nitrile or butyl gloves (complying with standards EN 374), clothes and safety footwear resistant to chemicals.

Respiratory protection: Where necessary, use an appropriate respirator. Special attention to oxygen levels in the air should be paid.
If large releases occur, wear self-contained breathing apparatus (SCBA).

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Paste.
Colour:	Gray.
Odour:	Characteristic.
Odour threshold:	N/D
pH:	N/D
Melting point:	N/D
Boiling point:	N/D
Evaporation rate:	N/D

Flammability:	The product is not flammable.
Flash point:	> 90°C (194°F)
Explosive limits:	N/D
Auto-ignition temperature:	N/D
Decomposition temperature:	N/D
Vapour pressure (20°C):	N/D
Vapour density (air=1):	N/D
Relative density (20°C):	1,40 - 1,45 g/cm ³
Solubility (20°C):	Slightly soluble in water.
Partition coefficient (logKo/w):	N/D
Viscosity (cSt, 40°C):	N/D
Henry constant (20°C):	N/D
Explosive properties:	Not explosive. According to column 2 of Annex VII of REACH, this study is not required because: in the molecule no chemical groups are associated with explosive properties.
Oxidizing properties:	According to column 2 of Annex XVII of REACH, this study is not necessary because: the substances present in the product, due to their chemical structures, are incapable of reacting exothermically with combustible materials.

9.2 Other information

Other properties: None.

SECTION 10 – STABILITY AND REACTIVITY

10.1. Reactivity

It is not expected that product reactions or decomposition may occur under normal storage conditions. It does not contain organic peroxides. It is not corrosive to metals. Does not react with water.

10.2. Chemical stability

The product is chemically stable and does not require stabilizers.

10.3. Possibility of hazardous reactions

No hazardous polymerization is expected.

10.4. Conditions to avoid

Avoid high temperatures. The product cures in contact with moist air or moisture.

10.5. Incompatible materials

Keep away from Strong oxidizing agents, acids and organic peroxides.

10.6. Hazardous decomposition products

When heated, it may release toxic and irritating vapors. In case of fire, see section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	There is no information about the toxicity of the product, but acute toxicity estimations are presented. ATE-LD50 oral (calc.): > 2000 mg/kg ATE-LD50 der (calc.): > 2000 mg/kg ATE-LC50 inh. (calc.): > 2,4 mg/l
Skin corrosion / irritation:	Skin irr. (rabbit, estim.): mild irritant
Serious eye damage / irritation:	Eye irr. (rabbit, estim.): mild irritant
Respiratory or skin sensitization:	Skin sens (Guinea pig, estim.): sensitising Resp. sens (Guinea pig, estim.): sensitizing

Carcinogenicity, mutagenicity and reproductive toxicity:

Carcinogenicity: Bis (2-ethylhexyl) phthalate (CAS 117-81-7), present at levels greater than or equal to 0.1%, is classified as a possible human carcinogen (group 2B) by the International Agency for Research on Carcinogens - IARC- according to Sup 7, 77, 101 of 2013.

Carbon black (CAS 1333-86-4), present at levels greater than or equal to 0.1%, is classified as a possible human carcinogen (group 2B) by the International Agency for Research on Carcinogens - IARC- according to Sup 7, 65, 93 of 2010.

Titanium dioxide (CAS 13463-67-7), present at levels greater than or equal to 0.1%, is classified as a possible human carcinogen (group 2B) by the International Agency for Research on Carcinogens - IARC- according to 47, 93 of 2010.

Mutagenicity: There are no components of this product, present at a concentration greater than or equal to 0.1%, that classify as mutagens according to the SGA.

Tox. Repr .: At least one component of this product, present at a concentration greater than or equal to 0.1%, is classified as dangerous for reproduction category 1B by the GHS.

Teratogenicity: There are no components of this product, present at a concentration greater than or equal to 0.1%, that classify as a teratogen.

Acute effects:

Routes of exposure: Inhalation, skin and eye contact.

Inhalation: cough, sneezing, runny nose, headache, hoarseness and nose and throat pain.

Skin contact: adheres to the skin quickly. It causes skin irritation, localized redness, swelling, itching and dryness. It can cause allergic skin reaction, redness, swelling, blisters and itching.

Eye contact: adheres to the eyelids quickly. Causes severe eye irritation, significant redness, swelling, pain, tearing, cloudy appearance of the cornea and vision problems.

Ingestion: causes gastrointestinal irritation, abdominal pain, upset stomach, nausea, vomiting and diarrhea.

STOT-SE: There are no components of this product, present at a concentration greater than or equal to 1%, that classify as toxic to target organs by single exposures according to the GHS.

STOT-RE: May cause effects to organs through prolonged or repeated exposure.

Aspiration: The product is a solid, for which the SGA aspiration hazard criterion is not applicable.

SECTION 12 – ECOLOGICAL INFORMATION

12.1. Toxicity

There is no information about the ecotoxicity of the product, but acute toxicity estimations are presented.

ATE-EC50 (fishes, calc., 96 h): > 100 mg/l

ATE-EC50 (inv., calc., 48 h): > 100 mg/l

ATE-EC50 (algae, calc., 72 h): > 100 mg/l

ATE-NOEC (fishes, calc., 14 d): > 1 mg/l

ATE-NOEC (inv., calc., 14 d): > 1 mg/l

PNEC (water): N/D

PNEC (sea): N/D

PNEC-STP: N/D

12.2. Persistence and degradability

BIODEGRADABILITY (estimated): No test data available.

12.3. Bioaccumulative potential

Log K_{ow} : N/D

BIOCONCENTRATION FACTOR - BCF (OCDE 305): N/D - The complexity of the composition of the product does not allow to estimate the bioaccumulation in living organisms or the incidence in the food chain.

12.4. Mobility in soil

HENRY CONSTANT (20°C): N/D

LogKoc: N/D .

12.5. Results of PBT and vPvB assessment

There is no test data to determine compliance with Annex XIII of the REACH regulation on its PBT classification.

12.6. Other adverse effects

AOX and metal containing: Does not contain organic halogens, but contains titanium.

SECTION 13 – DISPOSAL CONSIDERATIONS

Both the excess product and empty containers should be disposed of in accordance with current legislation regarding the Protection of Environment and particularly of hazardous waste. Waste should be classified and disposed by an authorized company.

Empty containers may contain residue and thus be dangerous. Do not attempt to refill or clean containers without appropriate instructions.

SECTION 14 – TRANSPORT INFORMATION

14.1 Transport by land

Proper Shipping Name:

NOT CLASSIFIED AS A DANGEROUS GOODS

UN/ID Number:	NOT CLASSIFIED AS A DANGEROUS GOODS
Hazard class:	NOT CLASSIFIED AS A DANGEROUS GOODS
Packing group:	NOT CLASSIFIED AS A DANGEROUS GOODS
Hazard identification number:	NOT CLASSIFIED AS A DANGEROUS GOODS
Excepted and limited quantity:	NOT CLASSIFIED AS A DANGEROUS GOODS

14.2 Air transport (ICAO/IATA)

Proper Shipping Name:	NOT CLASSIFIED AS A DANGEROUS GOODS
UN/ID Number:	NOT CLASSIFIED AS A DANGEROUS GOODS
Hazard class:	NOT CLASSIFIED AS A DANGEROUS GOODS
Packing group:	NOT CLASSIFIED AS A DANGEROUS GOODS
PAX and Cargo Packing instructions:	NOT CLASSIFIED AS A DANGEROUS GOODS
Cargo Packing instructions:	NOT CLASSIFIED AS A DANGEROUS GOODS
ERC:	NOT CLASSIFIED AS A DANGEROUS GOODS
Special provisions:	NOT CLASSIFIED AS A DANGEROUS GOODS

14.3 Sea transport (IMO)

IMDG Code

Proper Shipping Name:	NOT CLASSIFIED AS A DANGEROUS GOODS
UN/ID N°:	NOT CLASSIFIED AS A DANGEROUS GOODS
Hazard class:	NOT CLASSIFIED AS A DANGEROUS GOODS
Packing group:	NOT CLASSIFIED AS A DANGEROUS GOODS
EMS:	NOT CLASSIFIED AS A DANGEROUS GOODS
Stowage and manipulation:	NOT CLASSIFIED AS A DANGEROUS GOODS
Segregation:	NOT CLASSIFIED AS A DANGEROUS GOODS
Marine pollutant:	NO
Proper Shipping Name:	NOT CLASSIFIED AS A DANGEROUS GOODS

SECTION 15 – REGULATORY INFORMATION

Not dangerous for the ozone layer (1005/2009/EC).
Volatile organic compounds (VOC's) (1999/13/EC): N/D

Regulation

Globally Harmonized System of Classification and Labeling of Chemicals, Fifth Revised Edition, 2015 (SGA 2015 - "ST / SG / AC 10/30 / Rev.5"). The fifth edition is taken into consideration because it is the one valid for Argentina according to Resolution 801/2015 of the SRT. In any case, the information is contrasted with Revision 6 ("ST / SG / AC 10/30 / Rev.6) and clarification is made as necessary.

European Agreement on the International Carriage of Dangerous Goods by Road (ADR 2017) and amendments.

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID 2017) and amendments.

International Maritime Dangerous Goods Code (IMDG 2016 - Amendment 38-16), International Maritime Organization (IMO).

IBC Code 2016, IMO, Resolution MSC.369 (93).

Regulations of the International Air Transport Association (IATA 58 ed., 2017) concerning the transport of dangerous goods by air.

SECTION 16 – OTHER INFORMATION

16.1 Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists.

AOX: Halogenated organic components

BCF: Bioconcentration factor

CAS: Chemical Abstract Service

EC50: Mean effective concentration

IC50: Mean inhibitory concentration.

LC50: Mean lethal concentration.

LD50: Mean lethal dose

ATE: Acute toxicity estimation

IARC: International Agency for Research on Cancer.

IDLH: Concentration immediately dangerous to life or health.

INSHT: National Institute for Safety and Hygiene at Work.

N/A: the property is not applicable due to the physical, chemical and toxicological characteristics of the product.

DENOMINATION OF GHS CLASSES

Aer.: aerosols

Oxid. Gas: oxidizing gas

Compressed gas: compressed gas

Dissolved gas: dissolved gas

Flam. Gas: flammable gas.

Liquefied Refr. Gas: refrigerated liquefied gas

Liquefied gas: liquefied gas

Oxid. Liquid: oxidizing liquid

Flam. Liquid: flammable liquid

Pyr. Liq.: pyrophoric liquid

Met. Corr.: corrosive for metals

Org. Perox.: organic peroxide

Water React. Flam. Gas: substance reactive with water, which emits flammable gases

Oxid. Solid: oxidizing solid

Flam. Solid: flammable solid

Asp Tox.: aspiration toxicity

Carc.: carcinogenicity

N/D: no information available at the time of making the SDS.

NIOSH: National Institute for Occupational Safety and Health

OECD: Organization for Economic Cooperation and Development

PEL: Permissible Exposure Limit.

PNEC: Predicted no-effect concentration

REACH: Registration, Evaluation, Authorization and Restriction of chemical substances and mixtures of the European Union

REL: Recommended Exposure Limit.

GHS: Globally Harmonized System of Classification and Labeling of Chemical Products.

STEL: Short-term Exposure Limit

TLV: Threshold Limit Value

TWA: Time-weighted average

| : Changes with respect to the previous revision.

Skin Corr./Irrit.: Corrosion / skin irritation

Eye Damage/Irrit.: Serious eye damage / eye irritation

Lac.: toxic for reproduction - lactation

Muta.: mutagenicity

Repr.: toxic for reproduction

Sens skin: skin sensitizer

Resp. Sens.: respiratory sensitizer

STOT Rep. Exp.: Specific target organ toxicity - repeated exposure

STOT Single Exp.: Specific target organ toxicity - single exposure

Acute Tox.: Acute toxicity

Aquatic Acute: Hazardous to the aquatic environment - acute hazard

Aquatic Chronic: Hazardous to the aquatic environment - chronic danger

Ozo.: Dangerous for the ozone layer.

16.2 Key literature references and sources for data

International Agency for Research on Cancer (IARC), carcinogen classification.

European Regulation 1272/2008, Classification, labeling and packing (CLP)

European Agreement on the International Carriage of Dangerous Goods by Road (ADR 2017) and amendments.

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID 2017) and amendments.

International Maritime Dangerous Goods Code (IMDG 2016 - Amendment 38-16), International Maritime Organization (IMO).

IBC Code 2016, IMO, Resolution MSC.369 (93).

Regulations of the International Air Transport Association (IATA 58 ed., 2017) concerning the transport of dangerous goods by air.

16.3 Classification and procedure used to derive the classification for mixtures

The classification was performed based on chemical analogues and product information.

SECTION 2: classification by analogy with other products, and based on product data.

SECTION 9: product data.

SECTION 11 and 12: analogy with other products.

Acute toxicity: calculation method for estimating acute toxicity.

16.4 Disclaimer

This information only concerns the above mentioned product and is not to be valid for other (s) product (s) or in any process. This safety data sheet provides health and safety information. The information is to our best knowledge, correct and complete. It is given in good faith but without warranty. The product should be used in applications consistent with our product literature. Individuals handling this product should be in-formed of the recommended safety precautions and should have access to this information. For any other use, exposure should be evaluated so that they can implement appropriate handling practices and training programs to ensure safe operations in the workplace.

It remains the user's own responsibility that this information is appropriate and complete for the special use of this product.

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