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

1.1 Product identifier

Product name: ADHESIVO DOBLE CONTACTO DE APARAR TACSA

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

Relevant identified uses: Adhesive.

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.
P: +54 11 7700 1900 - Web: www.tacsa.com.ar

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
Flammable liquids (Category 2)
Skin irritation (Category 2) - Eye irritation (Category 2A)
Respiratory sensitization (Category 1A) - Skin sensitization (Category 1A)
Reproductive toxicity (Category 2)
Specific target organ toxicity – single exposure (Category 3)
Specific target organ toxicity – repeated exposure (Category 2)
Short-term (acute) aquatic hazard (Category 2)
Long-term (chronic) aquatic hazard (Category 3)

2.2 Label elements

Pictogram:

Signal word: DANGER

Hazard statements:
H225 - Highly flammable liquid and vapour.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H336 - May cause drowsiness or dizziness.
H361 - Suspected of damaging fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.
H401 + H412 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe fume, mist, vapours or spray.
P273 - Avoid release to the environment.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 - IF EXPOSED OR CONCERNED: Get medical advice or attention.
P333 + P313 - IF SKIN IRRITATION OR RASH OCCURS: Get medical advice or attention.
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P370 + P378 - IN CASE OF FIRE: Use water spray, foam, dry chemical or carbon dioxide to extinguish.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents and/or container in accordance with national and international regulations.

2.3 Other hazards

There are no other additional hazards of consideration in the classification.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CONFIDENTIAL COMMERCIAL INFORMATION.
IN CASE OF EMERGENCIES CONTACT CIQUIME 0800 222 2933 (from Argentina)
+54 11 4552 8747 (other countries)

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

General advice:	Avoid exposure to the product and take appropriate protective measures. Consult your doctor with the safety data sheet.
Inhalation:	Move victim to an area with clean air. Keep her at rest. If not breathing, apply artificial respiration. Call the doctor.
Skin contact:	Immediately wash skin with plenty of soap and water for at least 15 minutes.
Eye contact:	Immediately flush eyes with water for at least 15 minutes, keeping eyelids open. If you have contact lenses, remove them after 5 minutes and continue rinsing eyes. Consult the doctor.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water. If the victim is unconscious, call a doctor immediately, and turn her on her side to reduce the risk of aspiration. Do not give the victim anything to drink or eat.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: may cause irritation in case of inhalation of vapors when heating the product.
Skin contact: may cause irritation or dermatitis on prolonged or repeated exposure.
Eye contact: may cause eye irritation.
Ingestion: may cause nausea, vomiting, and diarrhea.
Chronic effects: the product may have long-term effects or after repeated exposures. Symptoms and signs may present late, not immediately after exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice: Perform symptomatic treatment. For more information, consult a Poison Center.

SECTION 5 – FIREFIGHTING MEASURES

5.1 Extinguishing media

Use dry chemical, carbon dioxide (CO_2), water fog or foam.
Large fires: Use water spray or alcohol resistant foam. DO NOT USE water jets as it may spread fire. Contain the fire control water for later disposal. Do not scatter the material. Apart containers from fire area if this can be done safely.
Extinguishing media contraindicated: Use of water jet may be ineffective in fighting fires.

5.2 Special hazards arising from the substance or mixture

FLAMMABLE SOLID. The material can accumulate static charges that can produce an electrical discharge that causes fire.

5.3 Advice for firefighters

5.3.1 Firefighting instructions
Spray the containers with water to keep them cold. Cool containers with water until the fire has extinguished.
Withdraw immediately if the container have discoloration.
ALWAYS stay away from container engulfed in fire.
Prevent water used for fire control or dilution from entering watercourses, drains or springs.
5.3.2 Protective clothing
Use SCBA and structural protection clothing for firefighters.
5.3.3 Hazardous combustion products
In case of fire, it 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
Wear positive pressure self-contained breathing apparatus and fire-fighting protective clothing (includes fire-fighting helmet, jacket, pants, boots, and gloves). Avoid contact with the product during operations.

For non-fire spills or post-fire cleanup phase, wear chemical protective clothing specifically recommended by the manufacturer.
Eliminate all sources of ignition (no smoking, flares, sparks or open flames in danger area). Ground all equipment used to handle the product. Stop leak if you can do it without risk. Do not touch contaminated objects or areas or walk on the spilled material. You can use foam to reduce the emission of vapors. Do not allow reuse of spilled product.

6.2 Environmental precautions

Contain solid and cover to prevent dispersion. Prevent the product in reaching waterways.

6.3 Methods and material for containment and cleaning up

Collect the product with a shovel and place it in an appropriate container. Clean the affected area completely. 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 arms, hands, and nails after handling. Facilitate access to safety showers and eyewash emergency.
Use equipment and clothing that prevents the accumulation of electrostatic charges. Monitor and avoid explosive atmosfere formation.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Store in a clean, dry, well-ventilated area. Protect from sunlight. Containers, even those that have been emptied, may contain vapors. Do not cut, drill, grind, weld or perform similar operations on or near empty containers.
Packaging materials:	Supplied by the manufacturer.
Incompatibilities:	Keep away from Oxidizing mineral acids, strong oxidizing agents.

7.3 Specific end use(s)

Adhesive.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

TLV-TWA (ACGIH):	20 ppm [1998]; n-Hexane 200 ppm; hexane, isomers; 100 ppm [2020]; cyclohexane 0,001 mg/m³, as total protein, inh.; Natural rubber

TLV-STEL (ACGIH):	N/D
PEL (OSHA):	500 ppm; n-Hexane 300 ppm; cyclohexane
REL:	50 ppm; n-Hexane 100 ppm; hexane, isomers 300 ppm; cyclohexane
REL-C:	510 ppm; hexane, isomers
IDLH (NIOSH):	1100 ppm; n-Hexane 1300 ppm; Cyclohexane;
BEI:	1,2-Cyclohexanediol at the end of the day 2,5-hexanedione in urine, 0.5 mg/l at the end of the workday; n-Hexane

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:	When necessary, wear safety glasses (complying with EN 166).
Skin protection:	When necessary, wear impermeable protective LLDPE, nitrile, PVA or Viton - do not use butyl, rubber, neoprene or PVC - gloves (complying with standards EN 374), clothes and safety footwear resistant to chemicals.
Respiratory protection:	When necessary, wear an organic gas or steam (A) 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:	N/D
Odour:	N/D
Odour threshold:	N/D
pH:	N/D
Melting point:	N/D
Boiling point:	N/D
Evaporation rate:	N/D
Flammability:	The product is flammable.
Flash point:	< 21°C (69,8°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):	0,7 - 0,8 g/cm³
Solubility (20°C):	Insoluble in water.
Partition coefficient (logKo/w):	N/D
Viscosity (cSt, 22°C):	7300 - 7400 cP
Henry constant (20°C):	N/D
Explosive properties:	Not explosive. This study is not necessary because in the product there are no substances with chemical groups associated with explosive properties.
Oxidizing properties:	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. It does not react with water.

10.2. Chemical stability

The product is chemically stable and it does not require stabilizers.

10.3. Possibility of hazardous reactions

No hazardous polymerization is expected.

10.4. Conditions to avoid

Avoid high temperatures, open flames, sparks and other sources of ignition.

10.5. Incompatible materials

Keep away from Oxidizing mineral acids, strong oxidizing agents.

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. (4 hs., calc): > 5 mg/l
Skin irr. (rabbit, estim.): irritant
Eye irr. (rabbit, estim.): irritant
Skin sens (Guinea pig, estim.): sensitizing
Resp. sens (Guinea pig, estim.): sensitizing

Carcinogenicity, mutagenicity and reproductive toxicity:

Carcinogenicity: Does not contain components in concentrations greater than or equal to 0.1% that are classified as carcinogens by the International Agency for Investigation on Carcinogens.
Mutagenicity: There are no components in this product that classify as GHS mutagenic.
Tox. Repr.: This product is classified as toxic to reproduction category 2 by the GHS with effects on sexual function and fertility.
Teratogenicity: There are no components of this product that are classified as toxic for reproduction according to the GHS with effects on the development of offspring.
STOT-SE: May cause narcotic effects, with drowsiness, dizziness, and vertigo.
STOT-RE: May cause damage to organs through prolonged or repeated exposure. Diana: nervous system.
Aspiration: The product has a viscosity greater than 20.5 cSt at 40°C, therefore it is not classified as hazardous by aspiration.

Acute and chronic effects:

Routes of exposure: Inhalation, skin and eye contact.
Inhalation: may cause irritation in case of inhalation of vapors when heating the product.
Skin contact: may cause irritation or dermatitis on prolonged or repeated exposure.
Eye contact: may cause eye irritation.
Ingestion: may cause nausea, vomiting, and diarrhea.
Chronic effects: the product may have long-term effects or after repeated exposures. Symptoms and signs may present late, not immediately after exposure.

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 (fish, calc., 96 h): 1 - 10 mg/l
ATE-EC50 (inv., calc., 48 h): 1 - 10 mg/l
ATE-EC50 (algas, calc., 72 h): 1 - 10 mg/l
ATE-NOEC (fish, calc., 14 d): 0,1 - 1,0 mg/l
ATE-NOEC (inv., calc., 14 d): 0,1 - 1,0 mg/l
PNEC (water): N/D
PNEC (sea): N/D
PNEC-STP: N/D

12.2. Persistence and degradability

BIODEGRADABILITY (estimated): According to calculations based on the composition, the product is expected to be biodegradable.

12.3. Bioaccumulative potential

Log $K_{o/w}$: N/D
BIOCONCENTRATION FACTOR - BCF (OCDE 305): N/D

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 classification as persistent (P) or bioaccumulative (B), but it may be classified as toxic (T).

12.6. Other adverse effects

AOX and metal containing: Does not contain organic halogens nor metals.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of excess product and empty containers according to current legislation for the protection of the environment and hazardous waste. Disposal procedure: incineration.

SECTION 14 – TRANSPORT INFORMATION

14.1 Transport by land

Proper Shipping Name:	ADHESIVES
UN/ID Number:	1133
Hazard class:	3
Packing group:	II
Hazard identification number:	33
Excepted and limited quantity:	333 / 5 L
Special provisions:	-

14.2 Air transport (ICAO/IATA)

Proper Shipping Name:	ADHESIVES
UN/ID Number:	1133
Hazard class:	3
Packing group:	II
PAX and Cargo Packing instructions:	Y341; 1L / 353; 5L

Cargo Packing instructions:	364; 60L
ERC:	3L
Special provisions:	-

14.3 Sea transport (IMO)

IMDG Code

Proper Shipping Name:	ADHESIVES
UN/ID N°:	1133
Hazard class:	3
Packing group:	II
EMS:	F-E, S-D
Stowage and manipulation:	Category E
Segregation:	–
Marine pollutant:	NO

Proper Shipping Name: UN1133; ADHESIVES; Class 3; PG II; Flash point < 21°C (69,8°F) c.c.

SECTION 15 – REGULATORY INFORMATION

Not dangerous for the ozone layer.
Volatile organic compounds (VOC's): N/D

Regulation

Globally Harmonized System of Classification and Labelling of Chemicals, fifth revised edition, 2013 (GHS 2013 - '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 7 ('ST / SG / AC 10/30 / Rev.7') and clarification is made if required.
Agreement on Transport of Dangerous Products within the MERCOSUR, MERCOSUR\CMC\DEC N° 2/94.
European Agreement on the International Carriage of Dangerous Goods by Road (ADR 2023) and amendments.
Regulations concerning the International Carriage of Dangerous Goods by Rail (RID 2023) and amendments.
International Maritime Dangerous Goods Code (IMDG 2022 - Amendment 41-22), International Maritime Organization (IMO).
Regulations of the International Air Transport Association (IATA 64 ed., 2023) on the transport of dangerous goods by air.

SECTION 16 – OTHER INFORMATION

16.1 Abbreviations and acronyms

ACGIH: American Conference of Governmental Indus-trial Hygienists.
AOX: Halogenated organic components
BCF: Bioconcentration factor
CAS: Chemical Abstract Service
EC50: Mean effective concentration
IC50: Mean inhibitory concentration.
LC50: Mean lethal concentration.
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

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.
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.

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
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 environ-ment - chronic danger
Ozo.: Dangerous for the ozone layer.

16.2 Key literature references and sources for data

International Agency for Research on Cancer (IARC), classification of carcinogens.
European Chemicals Agency – ECHA
GESTIS-Stoffdatenbank, IFA, DGUV, Germany
Annex VI of Regulation (EC) No. 1272/2008, on classification, labeling and packaging of substances and mixtures (CLP Regulation)
US National Library of Medicine - PUBCHEM
eChem Portal, OECD

16.3 Classification and procedure used to derive the classification for mixtures

The classification was performed based on chemical analogues and product information compiled by CIQUIME.
SECTION 2: classification by hazard extrapolation and based on product data.
SECTION 9: product data.
SECTION 11 and 12: calculation of acute toxicity estimation according to GHS, product data and bibliographic data.

Change's control: v.1 - Adaptation to the GHS.

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.

Version:	1	Emission date:	August, 2023
Replaces:			
Created:	CIQUIME	Revised:	TECNOLOGÍA ARGENTINA EN CINTAS S.A. (TACSA)