TN-100

SAFETY DATA SHEET

SECTION I - IDENTIFICATION

1.1 PRODUCT NAME: TN-100 ACRYLIC SEALANT.
PRODUCT CODE: 2125-S
1.2 USES: Acrylic sealant.
1.3 Company Name: PIC SISTEMAS
Company Address: 1148 Champlain Dr., Brownsville. Texas 78526
1.4 Business Phone: +1 (956) 435-4262
MAIL: ventas@picsacv.com.mx

SECTION II - HAZARD IDENTIFICATION

Emergency Overview
Causes skin irritation, may cause an allergic skin reaction, and causes serious eye irritation. May cause respiratory irritation. Move to fresh air. In case of skin contact, wash with plenty of soap and water. In case of eye contact, rinse immediately with plenty of water and consult a physician. Rinse mouth with water, consult a physician, and show this safety data sheet to the doctor in attendance.

GHS Classification: Chinese standards (GB 30000-2013)

Flammable liquids:	Category 3
Skin corrosion/irritation:	Category2
Serious eye damage/eye irritation:	Category 2
Skin sensitization:	Category 1
Specific target organ toxicity - single exposure	Category 3 (Respiratory system

Clasificación GHS: normas chinas (GB30000-2013)
Pictogramas de peligro:



Signal Word:	**Warning**	
Hazard Statements:	H226	Flammable liquid and vapor.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.
Precautionary Statements:	**Prevention:**	
	P101	If medical advice is needed, have product container or label at hand.

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.

Response:

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

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.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501	Dispose of contents/container to an approved waste disposal plant.

Physical and Chemical Hazards:

Flammable liquid and vapor.

Health Hazards:

Causes serious eye irritation.

Environmental Hazards:

Not classified based on available information.

Other hazards which do not result in classification:

No data available.

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Product Form: Mixture

Hazardous Components

Chemical Name	CAS-NO	Classification (GB 30000.2-29-2013)	Concentration
Water	7732-18-5	Not classified	40%
Calcium carbonate	471-34-1	Not classified	30%
Butyl acrylate	123-86-4	Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3	25%
Toluene	108-88-3	Flam. Liq. 3 STOT SE 3	4%
Curing agent	6465-57-2	Flam. Liq. 2 Skin Irrit. 2 Asp. Tox. 1 STOT SE 3 STOT SE 2 Repr. 2	1%

SECTION IV - FIRST AID MEASURES

General advice: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

If inhaled: In case of inhalation, move person to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact: Take off contaminated clothing. If irritation occurs, obtain medical attention. If on skin, rinse well with water. Wash contaminated clothing before reuse. If on clothes, remove clothes.

In case of contact with the eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Obtain medical attention.

If swallowed: Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Pulmonary edema may be delayed.

Most important symptoms and effects, both acute and delayed: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: Stomach or intestinal upset (nausea, vomiting, diarrhea). Irritation (nose, throat, airways). Pulmonary edema (fluid buildup in the lung tissue). May cause an allergic skin reaction. Causes serious eye damage. Causes severe burns.

Notes to physician: No hazards which require special first aid measures.

SECTION V - FIREFIGHTING MEASURES

Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, alcohol-resistant foam, carbon dioxide (CO_2), or dry chemical.
Unsuitable extinguishing media:	High volume water jet.
Specific hazards during firefighting::	Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Do not allow run-off from firefighting to enter drains or water courses.
Hazardous combustion products:	Carbon monoxide, carbon dioxide (CO_2), toxic fumes, and various hydrocarbons. Hazardous combustion gases or vapors may be formed in case of fire.
Specific extinguishing methods:	The product is compatible with standard firefighting agents. Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations. Use water spray to cool unopened containers.
Special protective equipment for firefighters:	In the event of fire, wear self-contained breathing apparatus (SCBA) and full protective suit.

SECCIÓN VI - MEDIDAS EN CASO DE VERTIDO ACCIDENTAL

Personal precautions, protective equipment, and emergency procedures:	Evacuate personnel to safe areas. Do not breathe vapors or aerosols. Remove all sources of ignition. Use personal protective equipment. Ensure adequate ventilation. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Persons not wearing protective equipment should be excluded from the area of the spill until cleanup has been completed.
Environmental precautions:	Prevent product from entering drains, water courses, or the soil. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers, lakes, or drains, inform the respective authorities.
Methods and materials for containment and cleaning up:	Contain spillage, and then collect with non-combustible absorbent material (e.g., sand, earth, diatomaceous earth, vermiculite) and place in a container for disposal according to local/national regulations (see section 13).
Prevention of secondary hazards:	Comply with all applicable national and local regulations.

SECTION VII - HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion:	Take necessary measures to prevent static electricity discharge (which could cause ignition of organic vapors). Keep away from open flames, hot surfaces, and sources of ignition. Use only explosion-proof equipment.
Advice on safe handling:	Ensure sufficient air exchange and/or exhaust systems in work rooms. Do not breathe vapors/mists/gases. Do not smoke. Persons susceptible to sensitization problems.

Advice on safe handling: Persons susceptible to skin sensitization or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. The container is hazardous even when empty. Take precautionary measures against static discharges. Avoid exposure — obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating, and drinking must be prohibited in the application area. For personal protection, see Section 8. Dispose of rinse water in accordance with local and national regulations.

Avoid contact: Amines, acids, halogens, oxidizers, peroxides, strong bases, strong oxidizing agents, and strong heating.

Storage

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking. Electrical installations and working materials must comply with the relevant technological safety standards.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters:
Contains no substances with occupational exposure limit values.

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis GBZ 2.1-2019
Butyl acrylate	141-32-2	PC-TWA	25 mg/m^3	GBZ-2,1-2019
Butyl acrylate	123-86-4	PC-TWA	200 mg/m^3	GBZ-2,1-2019
Butyl acrylate	123-86-4	PC-STEL	300 mg/m^3	GBZ-2,1-2019
Toluene	108-88-3	PC-TWA	50 mg/m^3	GBZ-2,1-2019
Toluene	108-88-3	PC-STEL	100 mg/m^3	GBZ-2,1-2019

Engineering measures: Provide sufficient mechanical ventilation (general and/or local exhaust). Ventilation must be adequate to maintain exposure below occupational exposure limits.

Personal protective equipment

Eye and face protection: Use chemical splash goggles and a face shield when there is a possibility of exposure of the eyes or face to liquid, vapor, or mist.

Skin and body protection: Wear impervious clothing, safety footwear, and flame-retardant clothing.

Hand protection: Wear protective gloves. Discard gloves that show tears, holes, or signs of wear.

Hygiene measures: Wash hands before breaks and at the end of the workday. Do not eat or drink during use. Do not smoke during use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Semi-fluid paste
Odor:	No data available
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper explosion limit:	Not explosive
Lower explosion limit:	Not explosive
Vapor pressure:	No data available
Relative vapor density:	No data available
Density: Solubility in water:	No data available
Solubility in other solvents:	Soluble in some solvents
Partition coefficient: n-octanol/water:	No data available
Decomposition temperature:	No data available
Viscosity, dynamic:	No data available
Viscosity, kinematic:	No data available
Oxidizing properties:	No data available

SECTION X - STABILITY AND REACTIVITY

Reactivity:	Does not decompose if stored and applied according to instructions.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Vapors may form an explosive mixture with air.
Conditions to avoid:	Keep away from heat, flames, sparks, and other sources of ignition. Sunlight exposure.
Incompatible materials:	Amines/acids, halogens/oxidizers/peroxides, strong bases. Strong oxidizing agents. Intense heating.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide (CO_2), and toxic fumes/hydrocarbons.

SECTION XI - TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Dioctyl phthalate:	Oral LD50 - Rat - female - 10,760 mg/kg
Acute oral toxicity:	(OECD Test Guideline 423) Symptoms: Risk of aspiration in case of vomiting.

Aspiration may cause pulmonary edema and pneumonitis.

Acute inhalation toxicity:	No data available.
Acute dermal toxicity:	Dermal LD50 - Rabbit - male and female - 14,112 mg/kg (OECD Test Guideline 402)

Butyl acrylate:

Acute oral toxicity:	LD50 (rat, male): 3730 mg/kg
Acute inhalation toxicity:	LC50 (rat, male and female): 10.3 mg/l
Exposure time: 4 h	
Test atmosphere: vapor	
Method: OECD Test Guideline 403	
Acute dermal toxicity:	LD50 (rabbit): 1.8 - 3.4 g/kg
LD50 (rabbit): 2000 mg/kg	
LDLo (rabbit): 1700 mg/kg	
LD50 (rabbit, male): 3024 mg/kg	

Skin corrosion/irritation

Causes skin irritation.

Butyl acrylate: Result:

Irritating to the skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Butyl acrylate: Result: Irritates the eyes.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Butyl acrylate:

In vitro genotoxicity:

Test type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

In vivo genotoxicity:

Test type: in vivo assay

Species: Rat (male and female)

Route of administration: inhalation (vapor)

Method: Mutagenicity (in vivo mammalian bone marrow cytogenetic test, chromosomal analysis)

Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity

Not classified based on available information.

Butyl acrylate:	
Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4.6 mg/l Exposure time: 96 h Test type: flow-through test
Toxicity to *Daphnia* and other aquatic invertebrates	LC50 (Cyprinodon variegatus (sheepshead minnow)): 2.1 mg/l Exposure time: 96 h
Toxicity to algae:	Test type: flow-through test, Method: OECD Test Guideline 203
	(Water flea (Daphnia magna)): 8.74 mg/l Exposure time: 48 h
Toxicity to *Daphnia* and other aquatic invertebrates (chronic toxicity)	Test type: static test Method: OECD Test Guideline 202 EC50 (Pseudokirchneriella subcapitata (green alga)): 5.9 mg/l Endpoint: Growth inhibition Exposure time: 72 h Test type: static test Method: OECD Test Guideline 201
Butyl acetate:	NOEC (Water flea (Daphnia magna)): 0.19 mg/l Exposure time: 21 d.
Toxicity to fish:	Test type: flow-through test. Flow-through test LC50 - *Pimephales promelas* (fathead minnow) - 18 mg/L - 96 h
Toxicity to *Daphnia* and other aquatic invertebrates	Static test EC50 - *Daphnia magna* (water flea) - 44 mg/L - 48 h (OECD Test Guideline 202)
Toxicity to algae	Static test ErC50 - *Pseudokirchneriella subcapitata* (green alga) - 397 mg/L - 72 h (OECD Test Guideline 201)
Persistence and degradability	
Biodegradability of butyl acrylate	Inoculum: activated sludge Biodegradation: 80–90% Exposure time: 28 d Method: OECD Test Guideline 310 Observations: Readily biodegradable
	Aerobic - Exposure time 28 d Result: 83% - Readily biodegradable (OECD Test Guideline 301D)
Butyl acetate: Biodegradability	2,207 mg/g Observations: (Lit.)
Theoretical oxygen demand	Observations: (Lit.)
BOD/ThOD ratio	Logarithmic potency: 2.36
Bioaccumulation potential	
Butyl acrylate Partition coefficient: n-octanol/water	

Mobility in soil
No data available

Other adverse effects
Additional ecological information

A risk to the environment cannot be ruled out in the event of unprofessional handling or disposal.

SECTION XII - DISPOSAL CONSIDERATIONS

Elimination methods

Waste residues:

Do not allow the product to enter drains, watercourses, or the soil. Do not contaminate ponds, waterways, or ditches with chemicals or used containers. Send the product to an authorized waste management company.
Dispose of in accordance with all applicable local, state, and federal regulations.

SECTION XIV - TRANSPORT INFORMATION

International Transport Regulations
LAND TRANSPORT/China Road (JT/T 617-2018)
UN Number: UN1133
Proper Shipping Name: Adhesives containing a flammable liquid
Hazard Class: 3
Packing Group: III
LQ: 5L
EQ: E2
Marine Pollutant: Yes



INTERNATIONAL MARITIME DANGEROUS GOODS TRANSPORT (IMDG Code, 2022 Edition, Amendment 41-22)
UN Number: UN1133
Proper Shipping Name: Adhesives containing a flammable liquid
Hazard Class: 3
Packing Group: III
LQ: 5L
EQ: E2
Marine Pollutant: Yes



AIR TRANSPORT/INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA DGR, 65th Edition)
UN Number: UN1133
Proper Shipping Name: Adhesives containing a flammable liquid
Hazard Class: 3
Packing Group: III
EQ: E2
Marine Pollutant: Yes



SECTION XV - REGULATORY INFORMATION

Regulations on the Safety Management of Hazardous Chemicals (Decree No. 591 of the State Council of the People's Republic of China) General Rules for Preparation of Precautionary Labels for Chemicals (GB16483-2008) Guidance on the Compilation of Safety Data Sheets for Chemical Products (GB/T 17519-2013) Rules for Classification and Labelling of Chemicals (GB30000-2013) Classification and Labelling of Common Hazardous Chemicals (GB13690-2009) List of Dangerous Goods (GB12268-2012) Classification and Code of Dangerous Goods (GB6944-2012) Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1: Chemical Hazardous Agents (GBZ 2.1-2019)

SECTION XVI - OTHER INFORMATION

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