TN-79

SAFETY DATA SHEET

SECTION I - IDENTIFICATION

1.1 PRODUCT NAME: TN-79 - ACRYLIC SEALANT
PRODUCT CODE: 2324-C
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 - HAZARDS IDENTIFICATION

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

GHS Classification: Chinese standards (GB 30000-2013)

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

GHS Classification: Chinese Standards (GB 30000-2013)
Hazard Pictograms:



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, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take action to prevent static discharges.
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 Take off contaminated clothing. 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 immediately. If irritation develops, seek medical attention. If skin contact occurs, rinse thoroughly with water. Wash contaminated clothing before reuse. If product comes into contact with clothing, remove it.

In case of eye contact: In case of eye contact, 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: Most important symptoms and effects, both acute and delayed: Signs and symptoms of exposure to this material through inhalation, ingestion, and/or skin absorption may include: Gastrointestinal upset (nausea, vomiting, diarrhea). Irritation (nose, throat, and respiratory tract). Pulmonary edema (fluid accumulation in 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. In case of fire, the formation of hazardous combustion gases or vapors is possible.
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 clothing.

SECTION VI - ACCIDENTAL RELEASE MEASURES

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:	The product must not be allowed to enter drains, watercourses, or the soil. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers, lakes, or drains, inform the corresponding 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 action to avoid static electricity discharge (which might 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:	Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapors/mists/gases. No smoking. Persons susceptible to sensitization problems should not be involved in any process in which this mixture is used.

Advice on safe handling: Persons suffering from skin sensitization problems or asthma, allergies, chronic or recurrent respiratory diseases should not be employed in any process in which this mixture is used. Container hazardous 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 should 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, oxidizing agents, 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 / working materials must comply with the 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 maintain exposure levels below occupational exposure limits.

Personal Protective Equipment:

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

Skin and body protection: Impermeable clothing, safety footwear, and flame-retardant (FR) clothing

Hand protection: Use 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
Color:	No data available
Physical State:	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:	Non-explosive
Lower explosion limit:	Non-explosive
Vapor pressure:	No data available
Relative vapor density:	No data available
Density water solubility:	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:	No decomposition if stored and applied as directed.
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 ignition sources. Exposure to direct sunlight.
Incompatible materials:	Amines, acids, halogens, peroxides, strong bases, and strong oxidizing agents. Strong heating.
Hazardous decomposition products:	Carbon monoxide (CO), Carbon dioxide (CO_2), and toxic fumes/hydrocarbons.

SECTION XI - TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Dioctyl phthalate:	DL50 oral - Raa - 47.000 mg/kg
Acute oral toxicity:	DL50 oral - Rat - female - 10.760 mg/kg (OECD Test Guideline 423) Symptoms: Aspiration hazard in case of vomiting. Aspiration may cause pulmonary edema and pneumonitis.
Acute inhalation toxicity:	No data available.
Acute dermal toxicity:	DL50 dermal - Rabbit - male y female - 14.112 mg/kg (OECD Test Guideline 402)

Butyl acrylate:

Acute oral toxicity:	LD 50 (rat, male): 3730 mg/kg
Acute inhalation toxicity	LC 50 (rat, male y female): 10,3 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403
Toxicidad dérmica aguda:	LD 50 (Rabbit): 1,8 - 3,4 g/kg LD 50 (Rabbit): 2000 mg/kg LD Lo (Rabbit): 1700 mg/kg LD 50 (Rabbit, male): 3024 mg/kg

Skin corrosion/irritation:
Causes skin irritation.
Butyl acrylate: Result:
Skin irritant.
Serious eye damage/eye irritation:
Causes serious eye irritation.
Causes serious eye irritation.

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) Application route: 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.

SECCIÓN XII - INFORMACIÓN ECOLÓGICA

Ecotoxicity

Not classified based on available information.

Butyl acrylate:	
Toxicity to fish:	LC 50 (Oncorhynchus mykiss (rainbow trout)): 4,6 mg/l Exposure time: 96 h Test type: prueba de flujo continuo LC 50 (Cyprinodon variegatus (sheepshead minnow)): 2,1 mg/l Exposure time: 96 h Test type: flow-through test, Method: OECD Test Guideline 203
Toxicity to daphia and other: aquatic invertebrates	(Daphnia magna (Water flea)): 8,74 mg/l Exposure time: 48 h
Toxicity to algae:	Test type: static testMethod: OECD Test Guideline 202 EC 50 (Pseudokirchneriella subcapitata (green algae)): 5,9 mg/l End point: Growth inhibition Exposure time: 72 h Test type: static test Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): 0,19 mg/l Exposure time: 21 d. Test type: flow-through test
Butyl acetate:	Continuous flow test CL50 - Pimephales promelas (bigfish) - 18 mg/l - 96 h
Toxicity to fish: Toxicity to daphnia and other aquatic invertebrates	Static test CE50 - Daphnia magna (water flea) - 44 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 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 days Method: OECD Test Guideline 310 Observations: Readily biodegradable
Butyl acetate :Biodegradability	Aerobic - Exposure time 28 days Result: 83% - Readily biodegradable. (OECD Test Guideline 301D)
Theoretical oxygen demand	
Relación DBO/DBO Th	2.207 mg/g Observations: (Liters)

Bioaccumulation potential

	Observations: (Liters)
Butyl acrylate partition coefficient: n-octanol/water	Log power: 2.36

Mobility in soil:
No data available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Additional ecological information:

SECTION XIII - DISPOSAL CONSIDERATIONS

Disposal methods:

Waste from residues: The product should not be allowed to enter drains, water courses, or the soil. Do not contaminate ponds, waterways, or ditches with chemical or used containers. Send the product to a licensed waste management company and dispose of it 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 flammable liquid
Hazard Class: 3
Packing Group: Ⅲ
LQ: 5L
EQ: E2
Marine Pollutant: Yes



INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG Code, 2022 edition, amendment 41-22)
UN Number: UN1133
Proper Shipping Name: ADHESIVES containing 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 flammable liquid
Hazard Class: 3
Packing Group: Ⅲ
EQ: E2
Marine Pollutant: Yes



SECTION XV - REGULATORY INFORMATION

Regulations on the Control over Safety of Hazardous Chemicals (Decree No. 591 of the State Council of the People's Republic of China), General rules for preparation of chemical safety data sheet (GB 16483-2008), Guidance on the compilation of safety data sheet for chemical products (GB/T 17519-2013), Rules for classification and labelling of chemicals (GB 30000-2013), General rules for classification and hazard communication of chemicals (GB 13690-2009), List of dangerous goods (GB 12268-2012), Classification and code of dangerous goods (GB 6944-2012), and Occupational exposure limits for hazardous agents in the workplace - Part 1: Chemical hazardous agents (GBZ 2.1-2019).

SECTION XVI - OTHER INFORMATION

DATE OF PREPARATION: 11/25/2013
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