SAFETY DATA SHEET

Revision Date: 08/08/24

Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: n-Butyl acrylate **Molecular Formula:** $C_7H_{12}O_2$

Catalog Number(s): M-109

Company: Scientific Polymer Products, Inc.
6265 Dean Parkway
Ontario, NY 14519

Telephone: 585/265-0413
Fax: 585/265-1390
Website: www.scipoly.com

Emergency Phone Number: 800-255-3924 (CHEM TEL)

Section 2: Hazards Identification

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS)
Flammable Liquids, Category 3, H226
Acute Toxicity, Oral, Category 4, H302
Acute Toxicity, Inhalation, Category 4, H332
Acute Toxicity, Dermal, Category 4, H312
Skin Irritation, Category 2, H315
Eye Irritation, Category 2A, H319
Skin sensitization, Category 1, H317
Specific Target Organ Toxicity – Single Exposure, Category 3, Respiratory System, H335
Acute aquatic toxicity, Category 2, H401
Chronic aquatic toxicity, Category 3, H412

GHS Label elements, including precautionary statements

Pictogram(s)

Signal Word: Warning

Hazard Statement(s)

H226	Flammable liquid and vapor.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces – no smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/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.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312+P330	IF SWALLOWED, call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair), remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340+P312	IF INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P362	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire, use dry sand, dry chemical or alcohol resistant foam for extinction.
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.
P501	Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS: Lachrymator

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Section 3: Composition/Information on Ingredients

Ingredient	CAS Number	Concentration (%)
n-Butyl acrylate	141-32-2	100

Section 4: First Aid Measures

Description of First Aid Measures

General Advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact
Wash off with soap and plenty of water. Consult a physician.

Eye Contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most Important Symptoms and Effects, Both Acute and Delayed
The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.

Indication of Any Immediate Medical Attention and Special Treatment Needed
No data available

Section 5: Fire-Fighting Measures

Extinguishing Media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special Hazards Arising from the Substance of Mixture
No data available

Advice for Fire-Fighting
Wear self-contained breathing apparatus for fire-fighting if necessary.

Further Information
Use water spray to cool unopened containers

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and Materials for Containment and Cleaning Up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see Section 13).

Section 7: Handling and Storage

Precautions for Safe Handling
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measures to prevent the building up of electrostatic charge. For precautions see Section 2.

Conditions for Safe Storage, Including any Incompatibilities
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.

Light sensitive.
Storage class (TRGS 510): Flammable liquids

Specific End-Use(s)
Laboratory chemicals, Synthesis of substances

Section 8: Exposure Controls/Personal Protection

Control Parameters
Components with Workplace Control Parameters

Component	CAS-No	Value	Control parameters	Basis
Butyl acrylate	141-32-2	TWA	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Eye irritation Skin irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Not classifiable as a human carcinogen		

		Sensitizer		
		TWA	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Dermal Sensitization Irritation 2015 Adoption Not classifiable as a human carcinogen		
		TWA	10 ppm 55 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	2 ppm 11 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Exposure Controls

Appropriate Engineering Controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment

Eye/Face Protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin Protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suite protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a)	Appearance	Form: Liquid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	148°C (298.4°F)
g)	Flash point	41° C (106° F)-Closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	0.90 (25°C)
n)	Water solubility	2.00 g/l

o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

Other safety information
No data available

Section 10: Stability and Reactivity

Reactivity
No data available

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
Vapors may form explosive mixture with air.

Conditions to Avoid
Heat, flames and sparks.

Incompatible Materials
Strong acids, Strong oxidizing agents, Strong bases

Hazardous Decomposition Products
Hazardous decomposition products formed under fire conditions – Carbon oxides
Other decomposition products - No data available.
In the event of a fire, see Section 5.

Section 11: Toxicological Information

Information on Toxicological Effects:

Acute Toxicity
LD50 Oral – Rat – 900 mg/Kg

LC50 Inhalation – Rat – 4h – 2730ppm
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear and Taste): Olfaction: Other changes. Sense Organs and Special Senses (Nose, Eye, Ear and Taste): Eye: Other. Lungs, Thorax, or Respiration: Dyspnea

LD50 Dermal – Rabbit – 1796 mg/Kg

Skin Corrosion/Irritation
No data available

Serious Eye Damage/Eye Irritation
No data available

Respiratory or Skin Sensitization
No data available

Germ Cell Mutagenicity
No data available

Carcinogenicity:
IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Butyl acrylate)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity
No data available

Specific Target Organ Toxicity – Single Exposure
May cause respiratory irritation.

Specific Target Organ Toxicity – Repeated Exposure
No data available

Aspiration Hazard
No data available

Additional Information:
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

Toxicity

Toxicity to fish	flow-through test LC50 – Cyprinodon variegatus (sheepshead minnow) – 2.1 mg/l – 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 – Daphnia magna (Water flea) – 1.3 mg/l – 48h (OECD Test Guideline 202)

Persistence & Degradability

Biodegradability	aerobic – Exposure time 28d Result: 80-90% - Readily available (OECD Test Guideline 310)

Bioaccumulation Potential
No data available

Mobility in Soil
No data available

Results of PBT and vPvB Assessment:
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other Adverse Effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

Avoid release to the environment.

Section 13: Disposal Considerations

Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

Section 14: Transport Information

DOT (US)
UN Number: 2348 Class: 3 Packing group: III
Proper shipping name: Butyl acrylate, stabilized

Poison Inhalation Hazard: No

IMDG
UN Number: 2348 Class: 3 Packing group: III
Proper shipping name: BUTYL ACRYLATES, STABILIZED

IATA
UN Number: 2348 Class: 3 Packing group: III
Proper shipping name: Butyl acrylates, stabilized

Section 15: Regulatory Information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.
Butyl acrylate	141-32-2

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right-to-Know Components

	CAS-No.
n-Butyl acrylate	141-32-2

Pennsylvania Right-to-Know Components

	CAS-No.
n-Butyl acrylate	141-32-2

New Jersey Right-to-Know Components

	CAS-No.
n-Butyl acrylate	141-32-2

California Proposition 65 Components
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

HMIS Rating		**NFPA Rating**	
Health hazard:	2	Health hazard:	3
Flammability:	3	Flammability:	3
Physical Hazard:	0	Physical Hazard:	0

This material is intended for laboratory use only. It is not sold or intended for drug, household or other uses. The information represents the most accurate and complete data currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.