

SWITLIK PARACHUTE CO., INC.

Safety Data Sheet

SDS-001: Life Vests

Version: 1.0 – supercedes MSDS/Vests Rev P

Revision date: 8/22/2023

SECTION 1 - IDENTIFICATION

Manufacturer name:

Switlik Survival Products
1325 E. State Street
Trenton, New Jersey 08609, USA
Non-emergency day phone 609-587-3300

Emergency Telephone number:

Professional Emergency Resource Services (PERS)
USA/Canada: 1-800-633-8253
International: +01-801-629-0667

Product Identifier:

Life-saving Appliance, Self-inflating (Life vest/jacket)

Aviation Life Vests

AV-35
AV-100
AV-200
ILV-20

Constant Wear Life Vests

HV-35C - X-back
HV-35P - All Pax
EV-35 – Aviator
UA-80
MK-1

Military Vests

HESP
LPU-9
LPU-10
LPU-21/23
LPU-23
LPU-32
LPU-42/ACE
A-A-50652
LPU-6 / S-186 Infant Cot

Recommended use of the chemical and restrictions on use:

Use only in emergency situations that warrant usage of appliance.

SECTION 2 – HAZARD(S) IDENTIFICATION

According to OSHA regulations [29 CFR 1910.1200(c)], a life-saving appliance is considered an “article” and therefore does not require an SDS. However, Switlik Survival Products acknowledges that industry has come to rely on SDS for other regulatory information and has thereby published this SDS.

Although the entire appliance is not classified as hazardous, it contains hazardous material components for which exposure is unlikely under conditions of normal use. These hazardous components include pressurized inert gas reservoirs. Refer to section III for more detailed information on such components.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component Name / Common Name	Chemical identity	CAS #	Impurities/stabilizing additives
Carbon dioxide, compressed	CO ₂	124-38-9	None

SECTION 4 – FIRST-AID MEASURES

In general, life-saving appliances present no hazards that would require first aid measures. Seek professional medical advice if experiencing persistent irritation or discomfort.

Skin Contact

None required

Eye Contact

None required

Inhalation

None required

Ingestion

None required

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water, chemical fire extinguisher, sand

Specific hazards arising from chemical:

Contains cylinder of gas under pressure which may discharge or rupture under extreme temperatures.

Special protective equipment and precautions for fire-fighters:

Fight fire remotely. Remove containers if possible. Keep containers cool if possible.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Hazardous materials are contained in sealed units within packed life vest. If compressed gas cylinder ruptures, ventilate area.

Prolonged exposure to moisture may cause water activated lights on some vests to discharge and give off a non-hazardous “rotten egg” smell. Fully ventilate the area.

On models equipped with water activated inflation systems, prolonged exposure to moisture can cause the vest to inflate by itself.

Environmental precautions:

Any compressed gas released will dissipate into the atmosphere and leave no hazardous waste. Avoid releasing battery waste into environment.

Methods and materials for containment and cleaning up: None

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling:

Do not drop or crush the packed life vest. Do not pull the inflation tab on the vest. Opening the package and unpacking the vest may cause it to inflate. Life vest can cause injury if inflated close to people or in a confined area.

Conditions for safe storage:

Store units out of direct sunlight, in a cool, dry area away from danger of sparks, heat or flame. Recommended temperature 21°C (70°F) ± 11.1°C (20°F), no greater than 50°C (122°F).

Store units away from sharp and/or abrasive projections.

Avoid storage of units on top of one another.

Keep out of reach of children.

SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters/Exposure limits: None required

Appropriate engineering controls:

Store and install in accordance with applicable Component Maintenance Manual

Individual protection measures, such as personal protective equipment (PPE): None required

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Not applicable	Decomposition temperature	Not applicable
Color	Not applicable	pH	Not applicable
Odor	Not applicable	Kinematic viscosity	Not applicable
Melting point/freezing point	Not applicable	Solubility	Not applicable
Boiling point or initial boiling point and boiling range	Not applicable	Partition coefficient n-octanol/water (log value)	Not applicable
Flammability	Not applicable	Vapor pressure	Not applicable
Upper/lower flammability or explosive limits	Not applicable	Density and/or relative density	Not applicable
Flash point	Not applicable	Relative vapor density	Not applicable
Auto-ignition temperature	Not applicable	Particle characteristics	Not applicable

CO₂ is a clear odorless gas at standard conditions.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not applicable

Chemical stability: CO₂ gas is stable

Possibility of hazardous reactions: None under conditions of normal use

Conditions to avoid:

Excessive heat, excessive humidity, physical damage. Avoid contact with water before proper usage.

Incompatible materials: None

Hazardous decomposition products: None

SECTION 11 – TOXICOLOGICAL INFORMATION			
As a whole, life-saving appliances are considered non-hazardous. Consult respective component SDS for toxicological information.			
Acute toxicity	No information available	Carcinogenicity	No information available
Skin corrosion/irritation	No information available	Reproductive toxicity	No information available
Serious eye damage/irritation	No information available	STOT-single exposure	No information available
Respiratory or skin sensitization	No information available	STOT-repeated exposure	No information available
Germ cell mutagenicity	No information available	Aspiration hazard	No information available
SECTION 12 – ECOLOGICAL INFORMATION			
Consult component SDS for ecological information.			
Ecotoxicity (aquatic): No information available			
Persistence and degradability: No information available			
Bioaccumulative potential: No information available			
Mobility in soil: No information available			
Other adverse effects: No information available			
SECTION 13 – DISPOSAL CONSIDERATIONS			
Disposal methods: Any compressed gas released will dissipate into the atmosphere and leave no hazardous waste. Other portions of the vest may be disposed of as domestic waste in accordance with local laws and regulations.			
SECTION 14 – TRANSPORT INFORMATION			
Under DOT, IMO, and IATA special provisions, vest models listed in this SDS do not ship as dangerous goods.			
UN Number: UN2990	UN Proper Shipping Name: Life-saving appliance, self-inflating	Hazard Class: 9	Packing group: None
DOT Pack Instructions	49 CFR 173.219		
IMO Pack Instructions	IMDG: Packing instruction P905, Special provision #296		
IATA Pack Instructions	DGR: Packing Instructions #955, Special provision A223		
Environmental hazards (marine pollutant): No information available			
Special precautions for user: None			
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable			
SECTION 15 – REGULATORY INFORMATION			
None			
SECTION 16 – OTHER INFORMATION			
Version	1.0		
Revision Date	8/22/2023		

This SDS is provided for informational purposes only and is designed to assist users in understanding the potential hazards and safe handling practices associated with the substance or mixture described herein. The provided information, recommendations, and data is based on our best available knowledge at the time of preparation, in accordance with applicable laws and regulations. However, the information is provided "as is," without any representations or warranties of any kind regarding its accuracy, completeness, or suitability. Switlik Survival Products assumes no liability for damages or loss resulting from use of this substance, whether proper or improper.