

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Soda ash, sodium chloride, graphite

Specific hazards arising from chemical:

Contains cylinder of gas under pressure which may discharge or rupture under extreme temperatures. Lit flares generate large quantities of gas and heat. Lithium reacts violently with water and may ignite. Lithium batteries may burst and release hazardous decomposition products when exposed to flame.

Special protective equipment and precautions for fire-fighters:

Wear full protective clothing for chemical fires, including self containing breathing apparatus (SCBA). 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 raft. If any of such units ignite, discharge, or rupture, evacuate personnel from affected area, ventilate and allow to cool before removing spills/waste.

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

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

Environmental precautions:

Avoid discharge into sewers and local environment/streams.

Methods and materials for containment and cleaning up:

Any compressed gas released will dissipate into the atmosphere and leave no hazardous waste.

Collect battery and flare waste with tools that do not give rise to ignition. Consult respective SDS for appropriate disposal methods.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling:

Do not drop or crush the packed life raft. Do not pull the inflation tab on the raft. Opening the package and unpacking the raft may cause it to inflate. Life raft 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: No information available

Appropriate engineering controls:

Store and install in accordance with applicable Component Maintenance Manual

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

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, air, and N₂ are clear odorless gases at standard conditions.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not applicable

Chemical stability: CO₂, N₂ gas and air are 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:

Toxic fumes. Refer to component SDS.

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. Dispose of any hazardous waste from flares, batteries, and/or survival kits in accordance with national and local regulations. Other portions of the life raft may be disposed of as domestic waste in accordance with local laws and regulations.

SECTION 14 – TRANSPORT INFORMATION

UN Number: UN2990	UN Proper Shipping Name: Life-saving appliance, self-inflating	Hazard Class: 9	Packing group: None
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DOT Pack Instructions	49 CFR 173.219
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IMO Pack Instructions	IMDG: Packing instruction P905, Special provision #296
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IATA Pack Instructions	DGR: Packing Instructions #955, Special provision A223
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Environmental hazards (marine pollutant): No information available, consult component SDS

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
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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.