

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name

- **Gentrol Complete Aerosol**

Synonyms

- EPA Reg. No.: 89459-84; RF2228 LH Aerosol

Product Description

- Colorless to pale yellow aerosol spray.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Insect growth regulator. Insecticide.

Restrictions on use

- Avoid inhalation of vapors or fumes. Do not take internally. Keep out of the reach of children. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and flame.

Details of the supplier of the safety data sheet

Manufacturer

- Central Garden & Pet Company
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173
United States

www.zoecon.com

Emergency telephone number

Manufacturer

- 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - Chemtrec - Outside US collect calls accepted

Manufacturer

- 1-800-248-7763

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

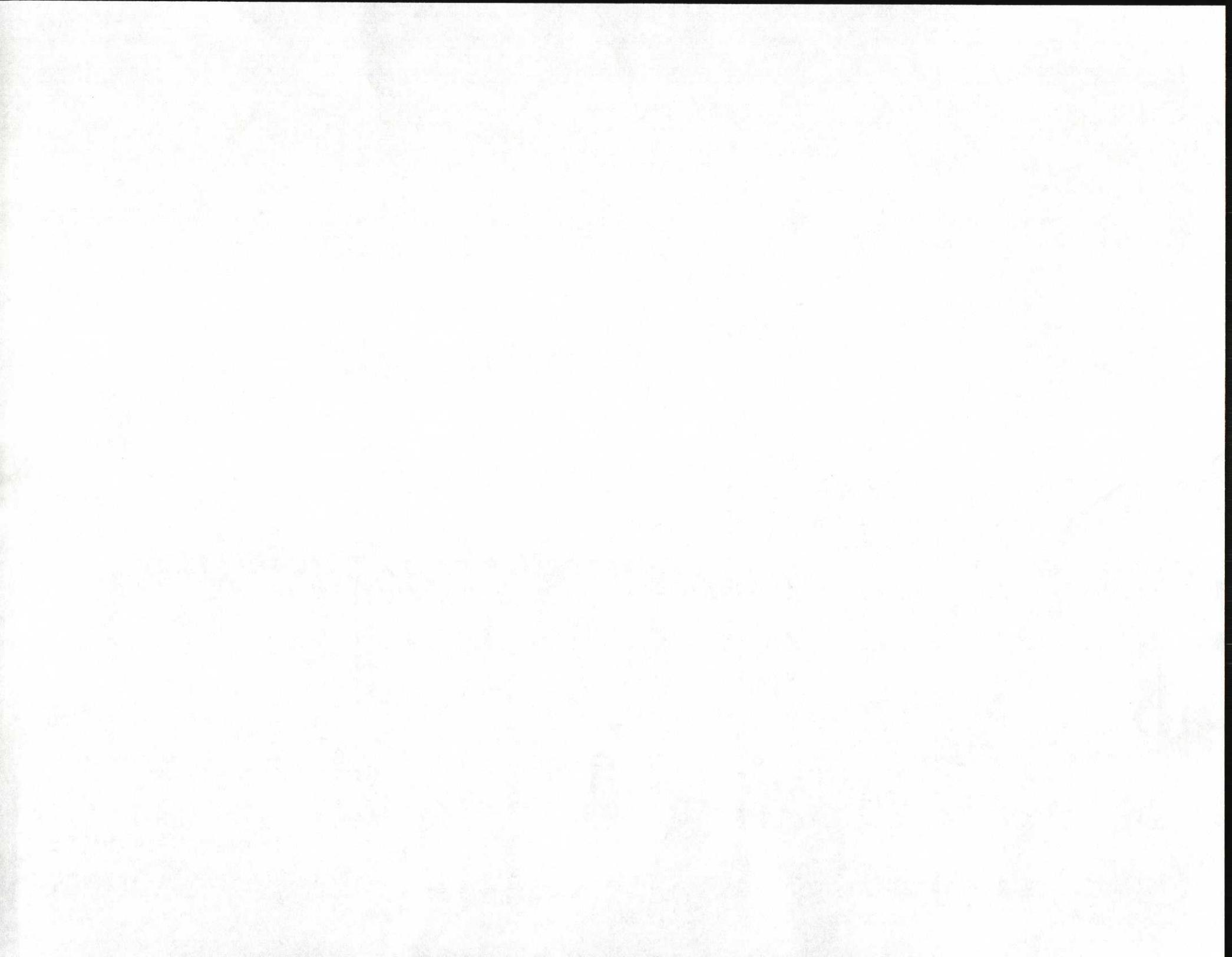
OSHA HCS 2012

- Aspiration 1
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Flammable Aerosols 2
Skin Irritation 2
Compressed Gas

Label elements

OSHA HCS 2012

DANGER





- Hazard statements** • Causes skin irritation
 May be fatal if swallowed and enters airways
 May cause drowsiness or dizziness
 Flammable aerosol
 Contains gas under pressure; may explode if heated

Precautionary statements

- Prevention** • Wash thoroughly after handling.
 Wear protective gloves.
 Avoid breathing dust, fume, gas, mist, vapors and/or spray.
 Use only outdoors or in a well-ventilated area.
 Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 Do not spray on an open flame or other ignition source.
 Pressurized container: Do not pierce or burn, even after use.

- Response** • IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation or rash occurs: Get medical advice/attention.
 Take off contaminated clothing and wash before reuse.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 Do NOT induce vomiting.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.

- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 Store locked up.
 Store in a well-ventilated place. Keep container tightly closed.
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

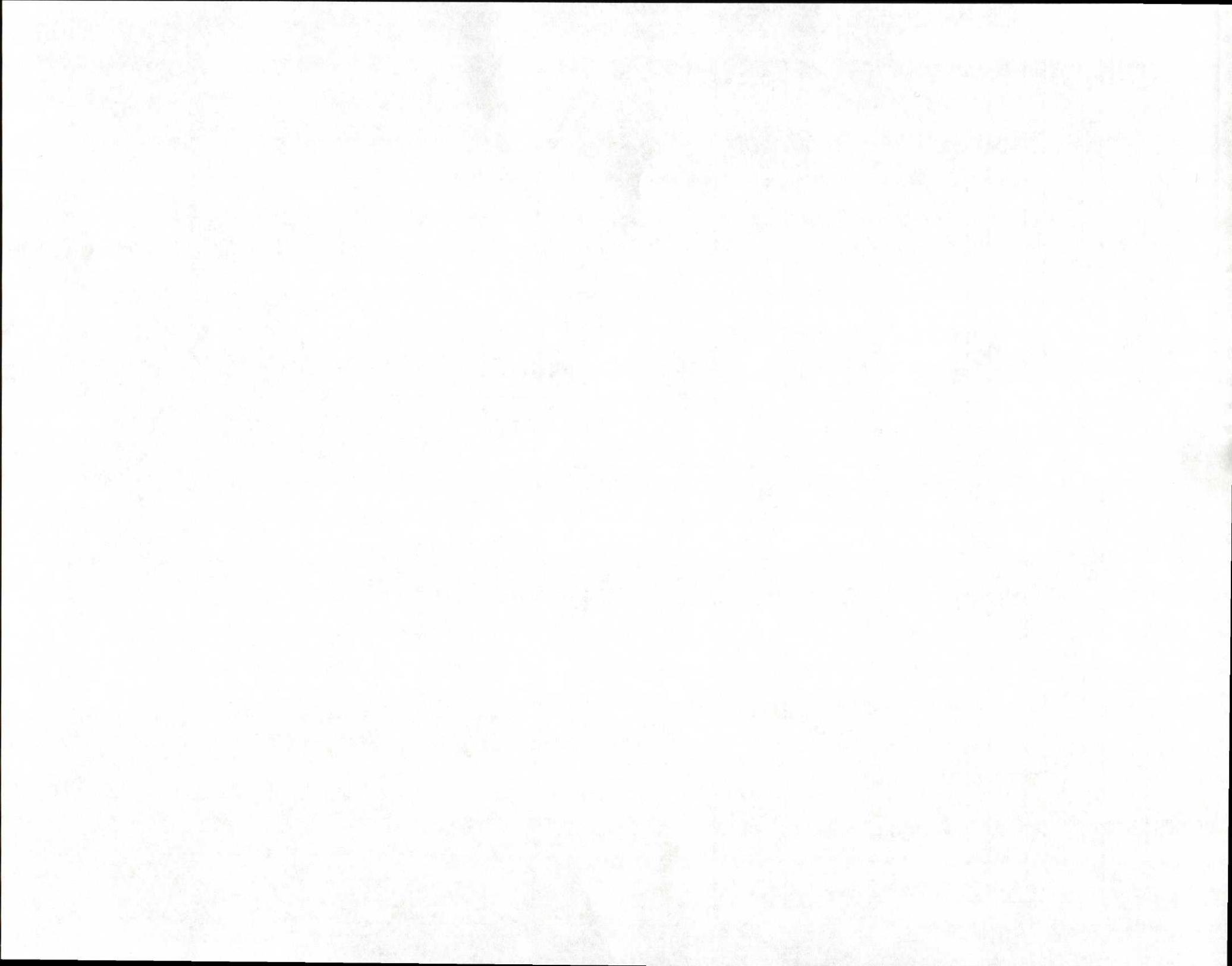
Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Mixtures

Composition		
Chemical Name	Identifiers	%
Lambda-cyhalothrin	CAS:91465-08-6	0.05%
(s)-Hydroprene	CAS:65733-18-8	0.36%
Propane	CAS:74-98-6	14.5%
Distillates (petroleum), hydrotreated light	CAS:64742-47-8	85.067%
Other ingredients	NDA	Balance



Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If irritation or rash occurs, get medical advice/attention.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Ingestion

- IF SWALLOWED: Aspiration hazard - do NOT induce vomiting. Call a poison control center or doctor immediately for treatment advice.

Most important symptoms and effects, both acute and delayed

- Causes skin irritation, aspiration hazard, may cause dizziness or drowsiness if inhaled. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Contains petroleum distillate vomiting may cause aspiration pneumonia. Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

- **Suitable Extinguishing Media** • LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

Unsuitable Extinguishing Media

- Avoid heavy hose streams.

Firefighting Procedures

- Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.
As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- At temperatures above 130°F, container may rupture.
Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

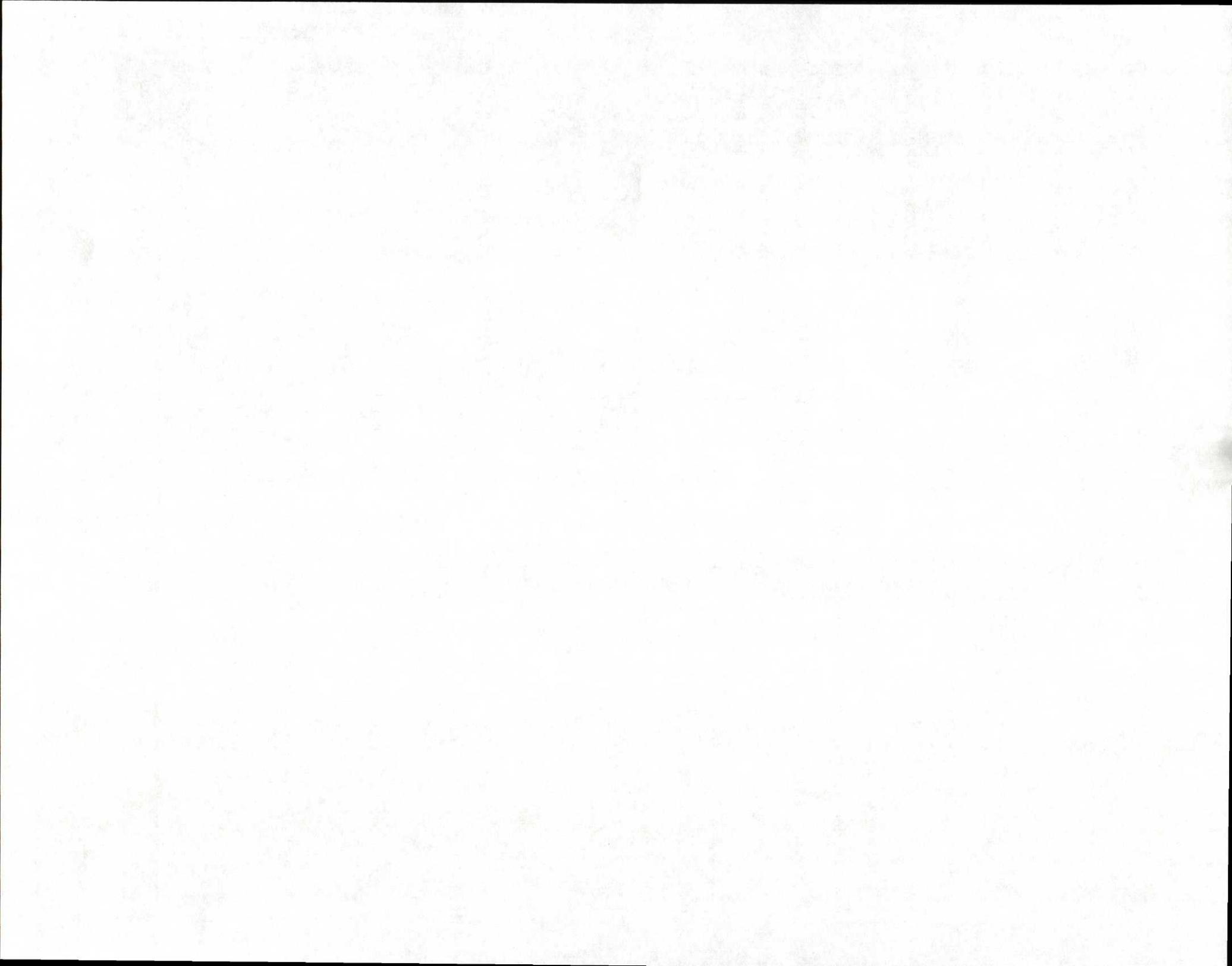
Hazardous Combustion Products

- Thermal degradation may produce oxides of carbon, oxides of nitrogen and/or volatile hydrocarbon vapors.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures



Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Approach leaking or punctured pressurized containers cautiously. Isolate leaking container from all sources of ignition. Avoid breathing fumes. Ventilate enclosed areas.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid unnecessary personnel and equipment traffic in the spill area. Turn off electric power to area. Stay upwind. Ventilate closed spaces before entering. Do not allow runoff into water, storm drains or drainage ditches.

Environmental precautions

- Avoid runoff to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Keep away from fire, sparks and heated surfaces.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Do not use or store near heat or open flame. Do not smoke while using this product. Contents under pressure, do not crush, puncture or incinerate. Avoid breathing fumes.

Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool, dry place. Keep out of reach of children. Keep away from sources of ignition – No Smoking. Store locked up. Store in a well-ventilated place. Keep at a temperature not exceeding 122°F (50°C). Do not store at a temperature below 32°F. Keep away from fire, sparks and heated surfaces. NFPA Aerosol Classification: Level 1. Protect from sunlight.

Incompatible Materials or Ignition Sources

- Heat, sparks, open flame. Oxidizing agents.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Propane (74-98-6)	TWAs	See Appendix F: Minimal Oxygen Content	1000 ppm TWA; 1800 mg/m3 TWA	1000 ppm TWA; 1800 mg/m3 TWA

Exposure controls

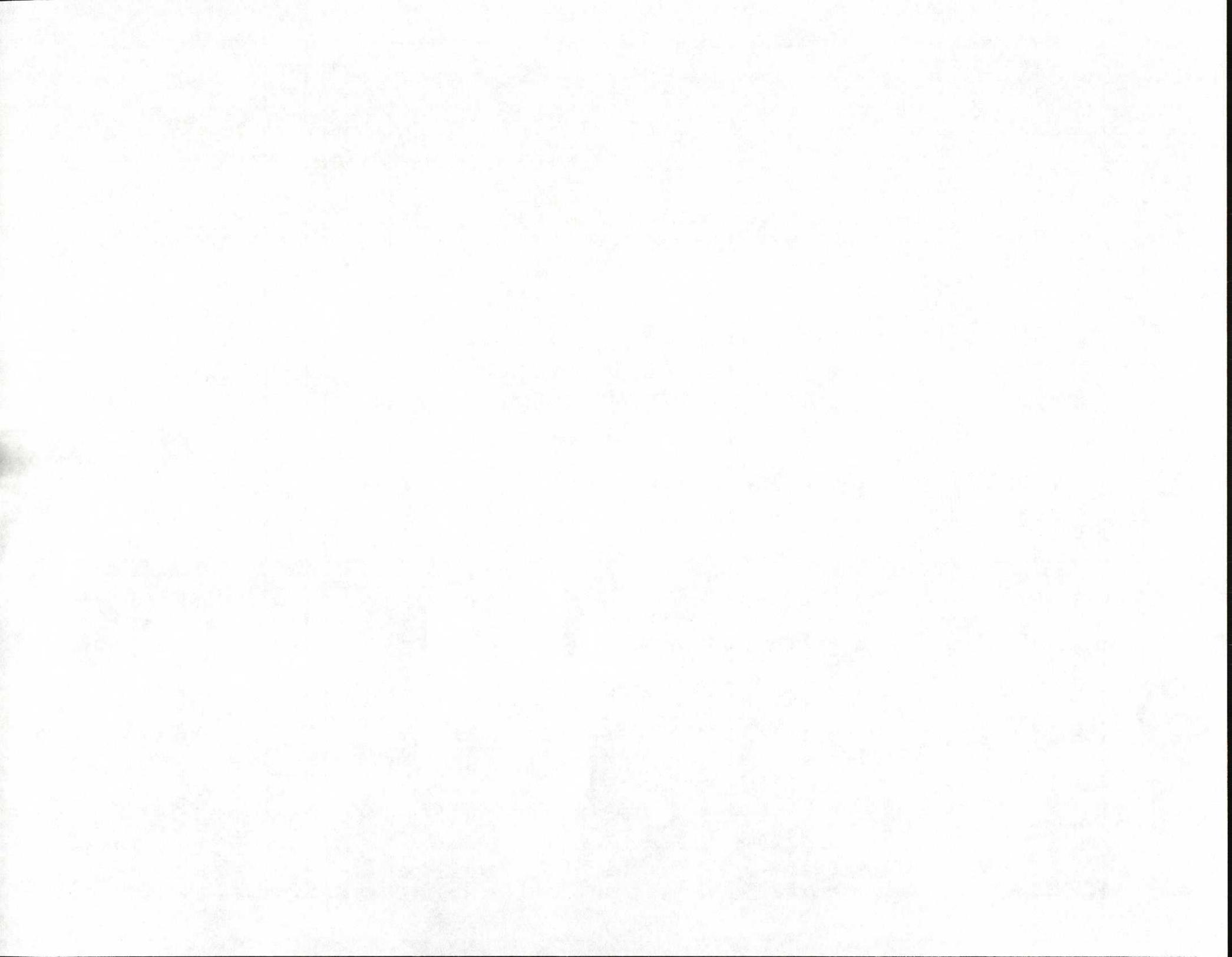
Engineering Measures/Controls

- Use adequate ventilation to remove vapors (fumes, dust etc)

Personal Protective Equipment

Pictograms

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Respiratory

- In case of insufficient ventilation, wear suitable NIOSH approved respiratory protection.

Eye/Face

- Wear safety glasses.

Hands

- Wear protective gloves.

Skin/Body

- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Section 9 - Physical and Chemical Properties**Information on Physical and Chemical Properties****Material Description**

Physical Form	Aerosol	Appearance/Description	Colorless to pale yellow aerosol spray.
Color	Colorless to pale yellow.	Odor	No data available.
Aerosol Type	Spray	Odor Threshold	No data available

General Properties

Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	Heat of Decomposition	No data available
pH	No data available	Specific Gravity/Relative Density	= 0.78 @ 15.6 °C(60.08 °F) Water=1
Water Solubility	Insoluble	Viscosity	Propellant-free concentrate: 4 cPs

Volatility

Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Vol.)	14.5 %

Flammability

Flash Point	Propellant-free concentrate: 185°F (TCC)	UEL	No data available
LEL	No data available	Heat of Combustion (ΔH_c)	6.7 kJ/g
Flame Extension	13 in	Flammability (solid, gas)	Flammable aerosol.

Environmental

Octanol/Water Partition coefficient	No data available		
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Section 10: Stability and Reactivity**Reactivity**

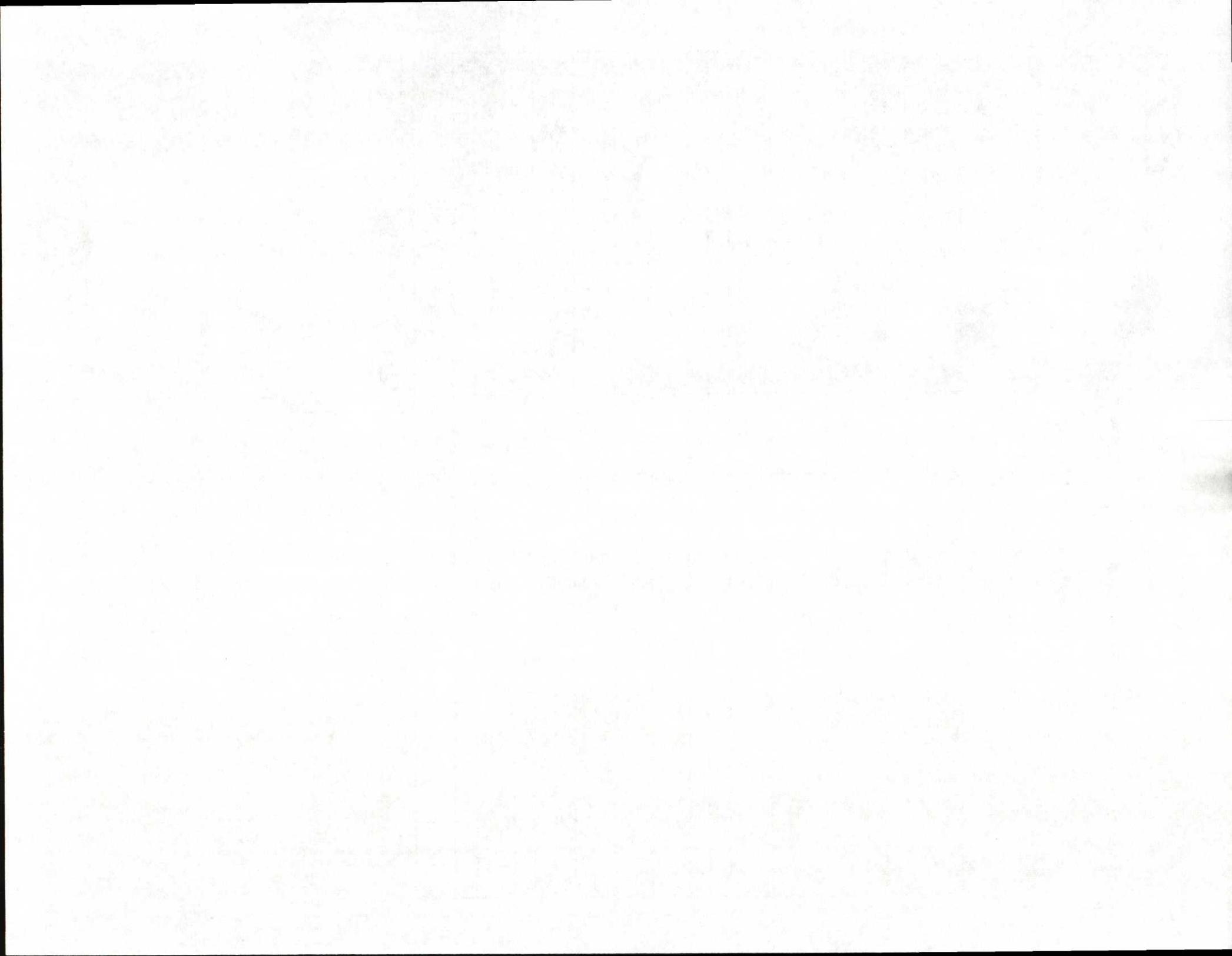
- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Flammable, aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.



Conditions to avoid

- Heat, sparks, open flame. Excess heat.

Incompatible materials

- Heat, strong acids, strong bases and oxidizing agents.

Hazardous decomposition products

- Hazardous decomposition may occur when heated producing oxides of carbon and nitrogen, volatile hydrocarbon vapors.

Section 11 - Toxicological Information**Information on toxicological effects**

	CAS	
Gentrol Complete Aerosol	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg 14 Day(s); Inhalation-Rat LC50 • >2.12 mg/L 4 Hour (s); Skin-Rat LD50 • >5000 mg/kg; Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Moderate irritation

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Potential Health Effects**Inhalation**

- Acute (Immediate)**
 - May cause drowsiness and dizziness.
- Chronic (Delayed)**
 - No data available

Skin

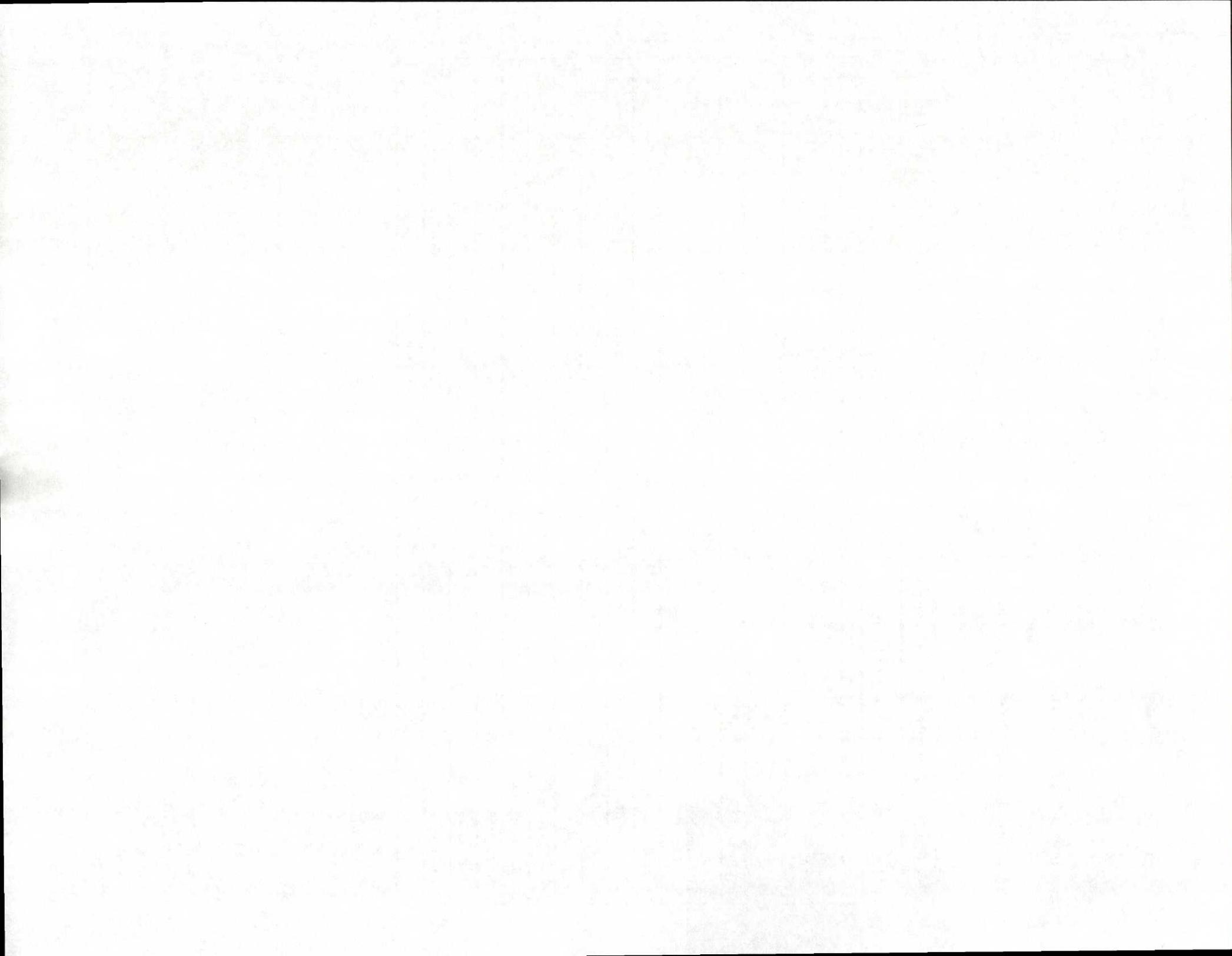
- Acute (Immediate)**
 - Causes skin irritation.
- Chronic (Delayed)**
 - No data available.

Eye

- Acute (Immediate)**
 - May cause mild irritation.
- Chronic (Delayed)**
 - No data available

Ingestion

- Acute (Immediate)**
 - Aspiration Hazard - may be fatal if swallowed and enters airways.
- Chronic (Delayed)**
 - No data available



Mutagenic Effects

- (s)-Hydroprene is not a mutagen. Lambda-Cyhalothrin does not demonstrate mutagenic effects.

Carcinogenic Effects

- (s)-Hydroprene did not cause cancer in laboratory animal studies. Lambda-Cyhalothrin did not cause cancer in laboratory animal studies.

Reproductive Effects

- (s)-Hydroprene did not produce developmental or reproductive effects in laboratory animal studies. Lambda-Cyhalothrin did not produce developmental or reproductive effects in laboratory animal studies.

Section 12 - Ecological Information

Toxicity

Components		
(s)-Hydroprene (0.36%)	65733-18-8	Aquatic Toxicity-Fish: 96 Hour(s) NOEC <i>Rainbow trout</i> >0.43 mg/L [Acute]
Lambda-cyhalothrin (0.05%)	91465-08-6	Aquatic Toxicity-Fish: NOEC <i>Fathead minnow</i> 0.000062 mg/L [Chronic] 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.00024 mg/L [Acute] 96 Hour(s) LC50 <i>Blue gill</i> 0.00021 mg/L [Acute] Aquatic Toxicity-Crustacea: <i>Daphnia magna</i> 0.0000023 mg/L [MATC Chronic] 48 Hour(s) LC50 <i>Daphnia magna</i> 0.00036 mg/L [Acute] LC50 <i>Mysid shrimp</i> 0.0000049 mg/L [Acute]

Persistence and degradability

- No data available

Bioaccumulative potential

- No data available

Mobility in Soil

- No data available

Other adverse effects

Potential Environmental Effects

- No data available.

Section 13 - Disposal Considerations

Waste treatment methods

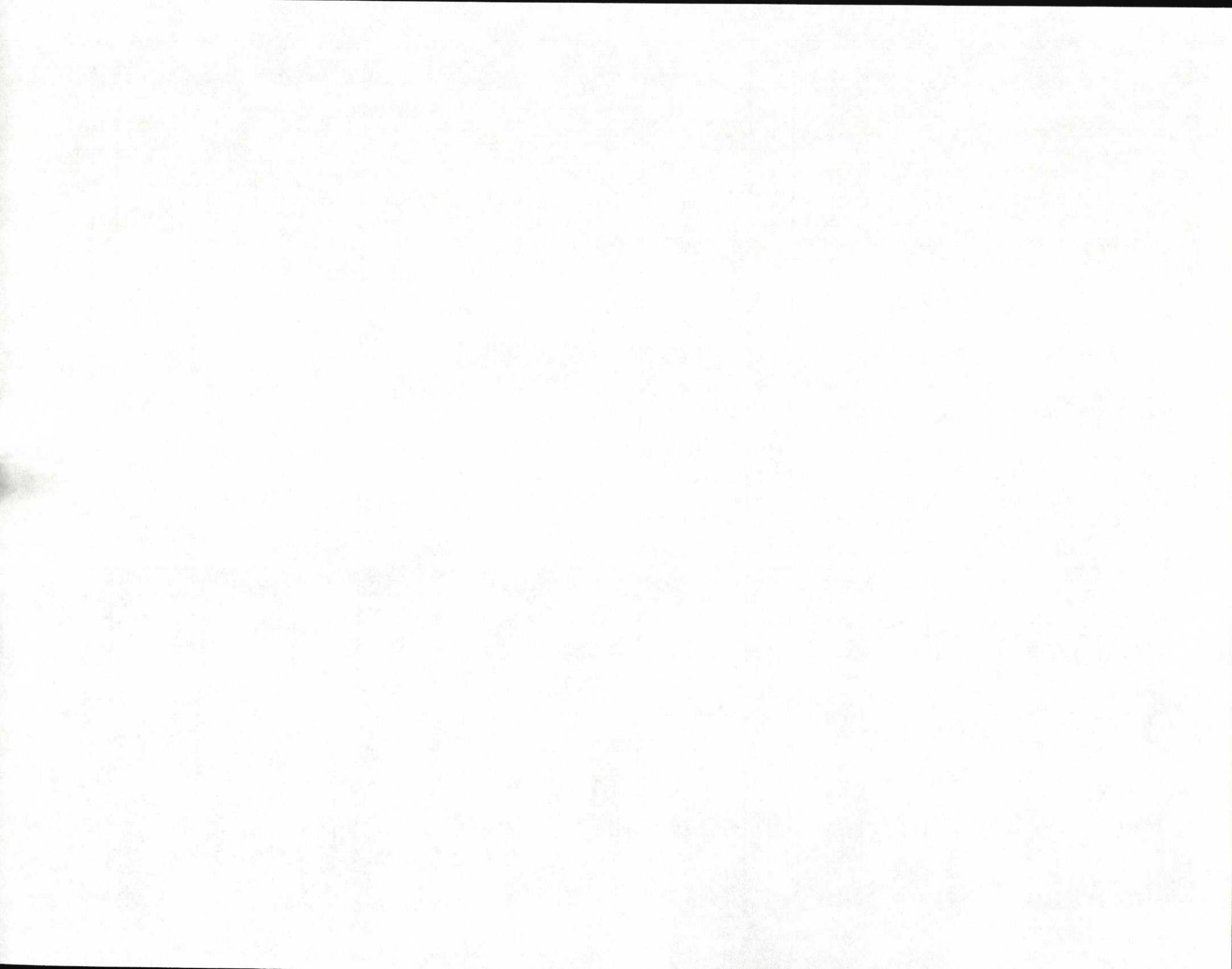
Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not allow entry into storm drains, drainage ditches, gutters or surface waters.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not puncture or incinerate.

Section 14 - Transport Information



	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	UN1950	Aerosols	2.1	Not Applicable	Marine Pollutant
IMO/IMDG	UN1950	Aerosols	2.1	Not Applicable	Marine Pollutant
IATA/ICAO	UN1950	Aerosols, flammable	2.1	Not Applicable	Acute Aquatic Toxicity

- Special precautions for user** • None specified.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available
- Other information**
- IMO/IMDG • No data available
 - IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements • KEEP OUT OF REACH OF CHILDREN.

Hazards to Humans and Domestic Animals • Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and gloves.

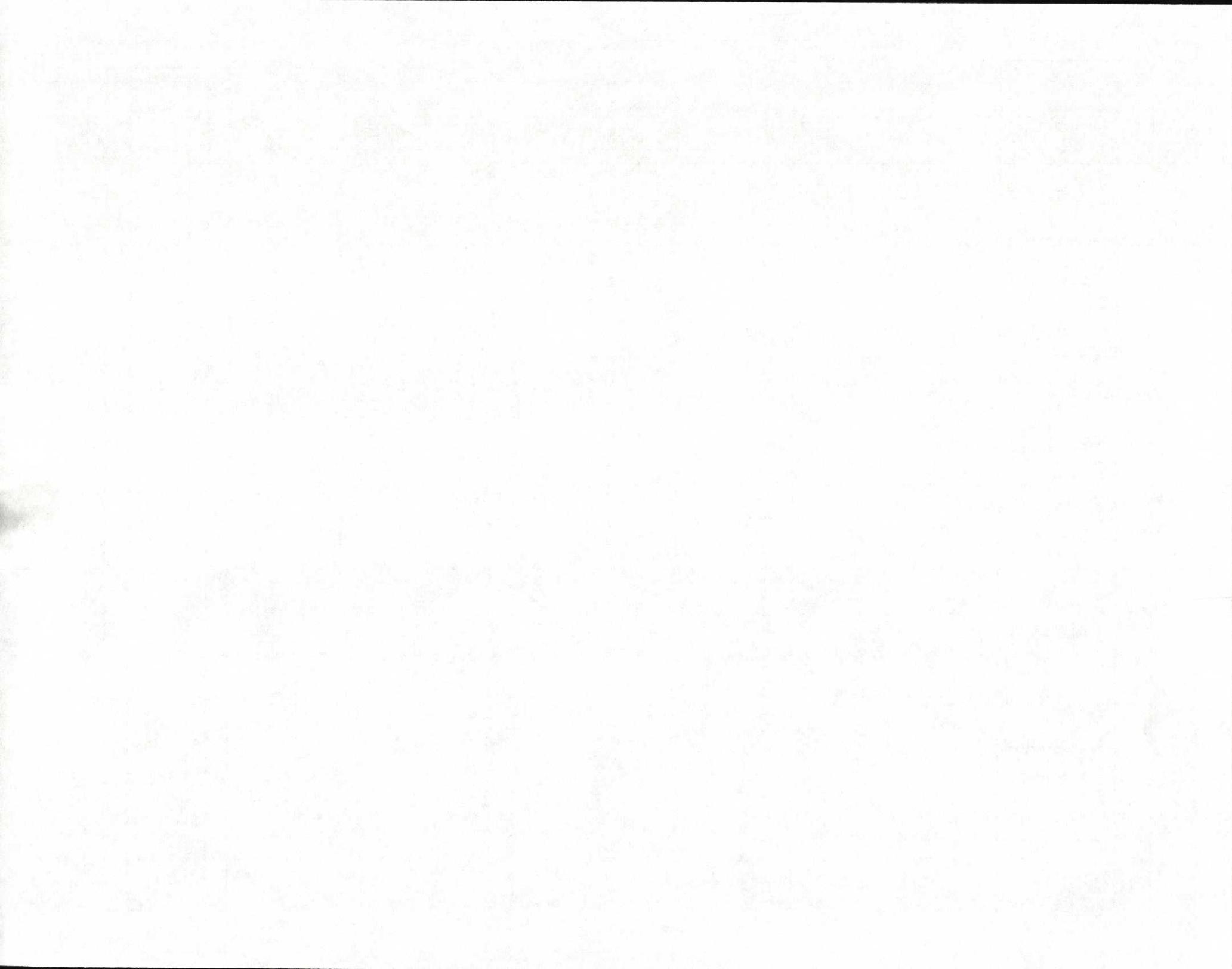
First Aid •

IF SWALLOWED:• Immediately call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. IF ON SKIN:• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 1 5-20 minutes. • Call a poison control center or doctor for treatment advice. NOTE TO PHYSICIAN: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

Physical or Chemical Hazards •

Contents under pressure. Do not use or store near open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

Inventory		
Component	CAS	TSCA
Distillates (petroleum), hydrotreated light	64742-47-8	Yes
Lambda-cyhalothrin	91465-08-6	No



Propane	74-98-6	Yes
(s)-Hydroprene	65733-18-8	No

Section 16 - Other Information

Revision Date • 30/January/2017

Last Revision Date • 30/January/2017

Preparation Date • 30/January/2017

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