Safety Data Sheet

Section 1: Identification

Product identifier

Product Name • **Blitz® II Surgical Instrument Cleaner and Lubricant**

Product Code • M105A

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

Recommended use • Consult manufacturer for recommended product use.

Details of the supplier of the safety data sheet

Manufacturer • Made for: ConMed Linvatec

Largo, FL 33773
United States

Telephone (General) • 1-800-237-0169

Emergency telephone number

Manufacturer • 1-800-424-9300

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Flammable Gases 1
Compressed Gas
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Simple Asphyxiant

Label elements

OSHA HCS 2012

DANGER



Hazard statements • Extremely flammable gas
Contains gas under pressure; may explode if heated
May cause drowsiness or dizziness
May displace oxygen and cause rapid suffocation.

Precautionary statements

Prevention • Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Avoid breathing mist, vapours and/or spray.

Use only outdoors or in a well-ventilated area.

Response
- Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.

Storage/Disposal
- Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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.

Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
Heavy alkylate (petroleum) naphtha	**CAS:**64741-65-7	63%	Ingestion/Oral-Rat LD50 • 2000 mg/kg	**OSHA HCS 2012:** Flam. Liq. 3; Skin Irrit. 2; STOT SE 3: Narc.; Asp. Tox. 1	NDA
Propane	**CAS:**74-98-6	13%	Inhalation-Rat LC50 • >800000 ppm 15 Minute(s)	**OSHA HCS 2012:** Flam. Gas 1; Press. Gas; Simp. Asphyx.	NDA
Butane	**CAS:**106-97-8	13%	Inhalation-Rat LC50 • 658000 mg/m³ 4 Hour (s)	**OSHA HCS 2012:** Flam. Gas 1; Press. Gas; STOT SE 3: Narc. (Inhl); Simp. Asphyx.	NDA
Mineral oil, petroleum distillates, solvent -dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	**CAS:**64742-65-0	11%	Ingestion/Oral-Rat LD50 • >5000 mg/kg Skin-Rabbit LD50 • >5000 mg/kg	**OSHA HCS 2012:** Not Classified	NDA

Section 4: First-Aid Measures

Description of first aid measures

Inhalation
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes.

Eye
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.

Ingestion
- Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media

- SMALL FIRES: Dry chemical or CO2.
  LARGE FIRES: Water spray or fog.

Unsuitable Extinguishing Media

- No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- EXTREMELY FLAMMABLE
  Will form explosive mixtures with air.
  Vapors may travel to source of ignition and flash back.
  Cylinders exposed to fire may vent and release flammable gas through pressure relief devices.
  Containers may explode when heated.
  Ruptured cylinders may rocket.

Hazardous Combustion Products

- No data available

Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
  Always wear thermal protective clothing when handling refrigerated/cryogenic liquids.
  Wear positive pressure self-contained breathing apparatus (SCBA).
  DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED
  Move containers from fire area if you can do it without risk.
  FIRE: If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions.
  FIRE INVOLVING TANKS: ALWAYS stay away from tanks engulfed in fire.
  FIRE INVOLVING TANKS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
  FIRE INVOLVING TANKS: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
  FIRE INVOLVING TANKS: Cool containers with flooding quantities of water until well after fire is out.
  FIRE INVOLVING TANKS: Do not direct water at source of leak or safety devices; icing may occur.
  FIRE INVOLVING TANKS: For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Ventilate the area before entry. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Keep unauthorized personnel away. Keep out of low areas. Stay upwind. LARGE SPILL: Consider initial downwind evacuation for at

least 800 meters (1/2 mile)

Environmental precautions

- Prevent spreading of vapors through sewers, ventilation systems and confined areas.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
  All equipment used when handling the product must be grounded.
  If possible, turn leaking containers so that gas escapes rather than liquid.
  Use water spray to reduce vapors; do not put water directly on leak, spill area or inside container.
  Do not direct water at spill or source of leak.
  Isolate area until gas has dispersed.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Use only with adequate ventilation. Keep away from heat and ignition sources – No Smoking. Take precautionary measures against static charges. Use only non-sparking tools. All equipment used when handling the product must be grounded. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapours and/or spray. Be aware of any signs of dizziness or fatigue, especially if work is done in a poorly ventilated area; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to olfactory fatigue or oxygen deficiency. Wash thoroughly after handling. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container.

Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool, dry, well-ventilated place.

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
Butane (106-97-8)	STELs	1000 ppm STEL	Not established	Not established
	TWAs	Not established	800 ppm TWA; 1900 mg/m3 TWA	Not established

Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety glasses.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
STEL = Short Term Exposure Limits are based on 15-minute exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Aerosol	Appearance/Description	Aerosol
Color	No data available	Odor	No data available
Odor Threshold	No data available		
General Properties			
Boiling Point	0 to 412 °F(-17.7778 to 211.1111 °C)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 0.69 Water=1	Water Solubility	No data available
Viscosity	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	> 1 Air=1
Evaporation Rate	> 1 Ether = 1	VOC (Wt.)	88.89 % Less Water and Federally Exempt Solvents
VOC (Vol.)	88.89 % Less Water and Federally Exempt Solvents	Volatiles (Wt.)	91 %
Volatiles (Vol.)	91 %		
Flammability			
Flash Point	< 0 °F(< -17.7778 °C)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Keep away from heat, sparks and flame.

Incompatible materials

- None known.

Hazardous decomposition products

- By fire: Carbon Dioxide, Carbon Monoxide.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Propane (13%)	74-98-6	**Acute Toxicity:** Inhalation-Rat LC50 • >800000 ppm 15 Minute(s); *Behavioral*:**General anesthetic**; *Behavioral*:**Ataxia**; *Lungs, Thorax, or Respiration*:**Respiratory depression**
Butane (13%)	106-97-8	**Acute Toxicity:** Inhalation-Rat LC50 • 658000 mg/m³ 4 Hour(s)
Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment) (11%)	64742-65-0	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • >5000 mg/kg; Skin-Rabbit LD50 • >5000 mg/kg

GHS Properties	Classification
Acute toxicity	**OSHA HCS 2012** • No data available
Skin corrosion/Irritation	**OSHA HCS 2012** • No data available
Serious eye damage/Irritation	**OSHA HCS 2012** • No data available
Skin sensitization	**OSHA HCS 2012** • No data available
Respiratory sensitization	**OSHA HCS 2012** • No data available
Aspiration Hazard	**OSHA HCS 2012** • No data available
Carcinogenicity	**OSHA HCS 2012** • No data available
Germ Cell Mutagenicity	**OSHA HCS 2012** • No data available
Toxicity for Reproduction	**OSHA HCS 2012** • No data available
STOT-SE	**OSHA HCS 2012** • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	**OSHA HCS 2012** • No data available

Potential Health Effects

Inhalation

Acute (Immediate)

- May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death. This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. If this material is released in a small, poorly ventilated area (i.e. an enclosed or confined space), an oxygen-deficient environment may occur. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with decreased levels of oxygen: increase in breathing and pulse rate, emotional upset, abnormal fatigue, nausea, vomiting, collapse, loss of consciousness, convulsive movements, respiratory collapse and death.

Chronic (Delayed)

- No data available

Skin

Acute (Immediate)

- No data available

Chronic (Delayed)

- No data available

Eye

Acute (Immediate) • No data available

Chronic (Delayed) • No data available

Ingestion

Acute (Immediate) • No data available

Chronic (Delayed) • No data available

Key to abbreviations

LC = Lethal Concnetration

LD = Lethal Dose

Section 12 - Ecological Information

Toxicity

• Non-mandatory section - information not compiled for this reason.

Persistence and degradability

• Non-mandatory section - information not compiled for this reason.

Bioaccumulative potential

• Non-mandatory section - information not compiled for this reason.

Mobility in Soil

• Non-mandatory section - information not compiled for this reason.

Other adverse effects

• Non-mandatory section - information not compiled for this reason.

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.

Packaging waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute, Pressure(Sudden Release of)

Inventory		
Component	**CAS**	**TSCA**
Butane	106-97-8	Yes
Heavy alkylate (petroleum) naphtha	64741-65-7	Yes
Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Yes
Propane	74-98-6	Yes

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed

• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female		
• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Heavy alkylate (petroleum) naphtha	64741-65-7	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed

Section 16 - Other Information

Revision Date
- 23/August/2016

Last Revision Date
- 23/August/2016

Preparation Date
- 23/August/2016

Disclaimer/Statement of Liability
- The information herein is given in good faith but no warranty, expressed or implied, is made.

Key to abbreviations

NDA = No Data Available