



SAFETY DATA SHEET

Issue Date 11-Apr-2015

Revision Date 26-May-2015

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name United 169 BLACK KNIGHT

Other means of identification

SDS# UNITED-169

Recommended use of the chemical and restrictions on use

Recommended Use Dry Moly Lube.
Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet

Supplier Address

United Laboratories, Inc.
320 37th Avenue
St. Charles, IL 60174
www.unitedlabsinc.com
www.unitedlabsinc.ca

Emergency telephone number

Company Phone Number 800-323-2594 (to reorder)
Emergency Telephone (24hr) INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable Aerosols	1
Acute toxicity, oral	4
Health hazard: Germ cell mutagenicity	1
Environmental Hazards (acute and long-term)	3
Health hazard: Carcinogenicity	1
Reproductive toxicity	1A
Specific target organ toxicity (single exposure)	1
Specific target organ toxicity (repeated exposure)	2
OSHA defined hazards	Not classified

Label elements

Emergency Overview

Danger

Hazard statements

Extremely flammable aerosol.
 Harmful if swallowed.
 May cause genetic defects.
 May cause cancer
 May damage fertility or the unborn child
 May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements-Prevention**

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn-pressurized container. Do not breathe gas. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements-Response

If swallowed. Contact poison center/doctor if you feel unwell. If exposed: Call poison center/doctor. Specific treatment (see label). Rinse mouth.

Precautionary -Storage

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Precautionary -Disposal

Dispose of contents/container to in accordance with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC)**Other Information**

None Known

Supplemental Information

21.27% of the mixture consists of component(s) of unknown acute oral toxicity. 90.49% of the mixture consists of component(s) of unknown acute or long-term hazards to the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Methylene Chloride	75-09-2	40-60	*
Butane	106-97-8	10-20	*
Propane	74-98-6	2.5-10	*
Toluene	108-88-3	2.5-10	*
Methanol	67-56-1	0.1-1	*
Propylene Oxide	75-56-9	0.1-1	*
Other components below reportable levels	-	2.5-10	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical attention.
Skin Contact	Wash off with soap and water. Get medical attention if irritation develops or persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Inhalation	If symptoms develop move individual to fresh air. Get medical condition if symptoms develop or persist.
Ingestion	IF SWALLOWED: call poison center or physician if you feel unwell. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms Prolonged exposure may cause chronic effect.

Indication of any immediate medical attention and special treatment needed

Note to physicians Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep individual warm and under observation. Symptoms may be delayed.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Dry chemical powder. Water. Carbon Dioxide (CO₂).

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not withdraw and let fire burn out.

Specific Methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers to fire area if you can do so without risk. Cool containers that were exposed to flames, with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

General Fire Hazard

Extremely flammable aerosol.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal precautions

Evacuate personnel to safe areas. Keep people away from an upwind of spill/leak. Keep out of low areas. Wear protective equipment and clothing during clean up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. See Section 8 of the SDS for Personal Protective Equipment.

Environmental precautions**Environmental precautions**

Avoid release to the environment. Inform appropriate personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up**Methods for containment**

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the container to a safe and open area if the leak is irreparable. Absorb in dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

Absorb in dry sand or earth and place into containers. After product recovery, clean surfaces thoroughly to remove residual contamination. For small spills: wipe with absorbent material (e.g. cloth, fleece). Collect spillage. For waste disposal, see Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on safe handling**

Obtain special instructions before use. Do not pierce or burn, even after use. Pressurized container. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not drill, grind, cut or expose containers to heat, flame, sparks or other sources of ignition. Ground and bond containers when transferring material. No smoking. Use only in a well-ventilated area. Do not breathe gas. Do not taste or swallow. Avoid contact during pregnancy/while nursing. Wear appropriate personal protective equipment. Do not re-use empty containers. Avoid release into the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Keeping in a cool place is recommended.

Incompatible materials

Store away from incompatible materials, see Section 10 of the SDS. Level 1 Aerosol.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure Guidelines/personal protection**

Exposure guidelines noted for ingredient(s).

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene Chloride 75-09-2	TWA: 50 ppm	STEL: 125 ppm TWA: 25 ppm	-

Methanol 67-56-1	STEL: 250 ppm TWA: 200 ppm	PEL: 260 mg/m ³ PEL: 200 ppm	STEL: 325 mg/m ³ STEL: 250 ppm TWA: 260 mg/m ³ TWA: 200 ppm
Toluene 108-88-3	TWA: 20 ppm	Ceiling: 300 ppm TWA: 200 ppm	STEL: 560 mg/m ³ STEL: 150 ppm TWA: 375 mg/m ³ TWA: 100 ppm
Butane 106-97-8	STEL: 1000 ppm	-	TWA: 1900mg/m ³ TWA: 800 ppm
Propane 74-98-6	-	PEL:1800 mg/m ³ PEL:1000 ppm	TWA: 1800 mg/m ³ TWA: 1000 ppm
Propylene Oxide 75-56-9	TWA: 2 ppm	PEL: 240 mg/m ³ PEL: 100 ppm	TWA: 1900 mg/m ³ TWA: 1000 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Methanol (67-56-1)	15 mg/l	Methanol	Urine	*
Methylene Chloride (75-09-2)	0.3 mg/l	Dichloromethane	Urine	*
Toluene (108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
Toluene (108-88-3)	0.03 mg/l 0.02 mg/l	Toluene Toluene	Urine Blood	* *

*For sampling details, please see the source document

Exposure guidelines
Skin designation

California / Minnesota/Tennessee and ACGIH/NIOSH

Can be absorbed through the skin

Methanol (67-56-1) **
Toluene (108-88-3)**

Appropriate engineering controls

Engineering Controls

Good general ventilation should be used (typically 10 air changes per hour) 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.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear impervious protective clothing. Wear protective gloves to prevent skin contact.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General Hygiene

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Aerosol.
Appearance	Dark gray viscous liquid
Color	Dark gray
Odor	Solvent
Odor threshold	No Information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Specific Gravity	0.148	
Viscosity	No information available	
Melting point/freezing point	No Information available	
Flash point	156.0 °F (-104.4°C) propellant estimated	
Boiling point / boiling range	75.39 °F (24.11°C) estimated	
Evaporation rate	No Information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limit:	9.5% estimated	
Lower flammability limit:	1.9% estimated	
Vapor pressure	461.58 psig@70°F estimated	
Vapor density	No Information available	
Water solubility	Complete	
Partition coefficient	No Information available	
Autoignition temperature	No Information available	
Decomposition temperature	No Information available	
Relative density	0.334 g/cm3 estimated	
Other Information		
Density	0.33 g/cm3 estimated	
Flammability class	Flammable IA estimated	
Heat of combustion	16.08 kJ/g estimated	
Heat of combustion (NFPA 30B)	16.08 kJ/g estimated	
Percent volatile	95.68% estimated	
Specific gravity	0.334 estimated	
VOC (weight %)	95.77 % estimated	

10. STABILITY AND REACTIVITY

Reactivity

The product is stable and not-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to avoid

Avoid temperatures exceeding the flash point.

Incompatible materials

Strong oxidizing agents. Chlorine. Acids. Nitrates. Fluorine.

Hazardous Decomposition Products

No known hazardous decomposition products.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Inhalation	May cause damage to organs by inhalation.
Eye contact	Avoid contact with eyes. Will cause irritation.
Skin Contact	No adverse effects due to skin contact are expected.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Butane (106-97-8)	-	-	1237 mg/l, 120 Minutes (Mouse) 52%, 120 Minutes
Methanol (67-56-1)	6000 mg/kg (Monkey)	-	85.41 mg/l, 4.5 Hours (Cat) 43.68 mg/l, 6 Hours
Methylene Chloride (75-09-2)	-	>2000 mg/kg, Days (Rat)	49 mg/l, 7 Hours (Mouse)
Propane (74-98-6)	-	-	1237 mg/l, 120 minutes (Mouse) 52%, 120 Minutes
Propylene Oxide (75-56-9)	382-587 mg/kg (Rat)	950-1250 mg/kg, 4 Hours (Rabbit) 1.5 ml/kg, 4 Hours	4197 ppm, 4 Hours 4124 mg/m ³ , 4 Hours
Toluene (108-88-3)	500 mg/kg (Rat)	>5000 mg/kg, 24 Hours (Rabbit)	6405-7436 ppm 6 Hours (Mouse) 5320 ppm, 8 Hours

Information on toxicological effects

Symptoms Harmful if swallowed.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin Sensitization This product is not expected to cause skin sensitization.

Respiratory Sensitization No information available.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

IARC (International Agency for Research on Cancer)

Methylene Chloride (75-09-2 and Propylene Oxide (75-56-9) Group 2B – Possibly carcinogenic to Humans.

Toluene (108-88-3), 3 not classifiable as to carcinogenicity to humans.

NTP (National Toxicology Program)

Methylene Chloride (75-09-2) and Propylene Oxide (75-56-9) Reasonably Anticipated to be Human Carcinogen.

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Methylene Chloride (75-09-2) Cancer

Reproductive toxicity May damage fertility or the unborn child.

STOT - single exposure Causes damage to organs.

STOT - repeated exposure Respiratory system. Skin. Kidneys. Central nervous system. Eyes. Liver. May cause damage to organs through prolonged or repeated exposure.

Chronic toxicity Prolonged inhalation may be harmful.

Aspiration hazard Not likely, due to the form of the product.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Persistence and degradability

No Information available.

Bioaccumulation

No Information available.

Partition coefficient n-octanol / water (log Kow)

Chemical Name	Partition coefficient
Butane	2.89
Methanol	-0.77
Methylene Chloride	1.25
Propane	2.36
Propylene Oxide	0.03
Toluene	2.73

Mobility in Soil

No information available.

Other adverse effects

No other adverse environmental effects are expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, crush or incinerate. Do not allow to drain into water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/International regulations.

Local disposal regulations

Dispose contents/container in accordance with local/regional regulations

Hazardous waste code

The user, the producer and waste disposal company should have assigned the waste code.

US RCRA Hazardous Waste U List:

Methanol (67-56-1) U154, Methylene Chloride (75-09-2) U080, Toluene (108-88-3), U220.

Waste from unused/residues Product

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (See disposal instructions).

Contaminated Packaging

Emptied containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. TRANSPORT INFORMATION

This product meets the exception requirements of Section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity – ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/2020 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

DOT

UN/ID No.	UN1950
Proper shipping name	Aerosols, flammable

Transport hazard class(es) 2.1
 Subsidiary risk 6.1 (PGIII)
 Label(s) 2.1
 Packing group Not applicable.
 Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
 Special provisions N82
 Packaging exceptions 306
 Packaging non bulk None
 Packaging bulk None

IATA

UN Number UN1950
UN shipping name Aerosols, flammable
Transport hazard class(es) 2.1
 Subsidiary risk 6.1 (PGIII)
 Label(s) 2.1
 Environmental Hazard No.
 Hazards ERG Code 10P
 Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
 Other information
 Passenger and cargo Allowed.
 Cargo aircraft only Allowed.
 Packaging Exceptions Limited Quantity.

IMDG

UN Number Un1950
UN Proper shipping name Aerosols,
Transport hazard class(es) 2.1
 Subsidiary risk 6.1 (PGIII)
 Label(s) 2.1
 Packaging group Not applicable.
Environmental hazards
Marine pollutant No
EmS F-D,S-U
 Special precautions for user Read safety instruction, SDS and emergency procedures before handling.
 Packaging Exceptions Not a Limited Quantity.

General information None.

15. REGULATORY INFORMATION

US Federal Information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910,1200.

Chemical Name	SARA 313 - Threshold Values %
2-butoxyethanol - 111-76-2	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA-Hazardous Substance List

Methanol (67-56-1) Listed.
 Methylene Chloride (75-09-2) Listed.
 Propylene Oxide (75-56-9) Listed.
 Toluene (108-88-3) Listed.

SARA 304

Propylene Oxide (75-56-9)

OSHA Specifically Regulated Substances

Methylene Chloride (75-09-2)
 Cancer
 Heart
 Central nervous system
 Liver
 Skin Irritation
 Eye Irritation

SARA 313 (TRI reporting)

Chemical	% by wt.
Methylene Chloride (75-09-2)	40-60
Toluene (108-88-3)	2.5-10
Ethylene Glycol (107-21-1)	0.1-1
Methanol (67-56-1)	0.1-1
Propylene Oxide (75-56-9)	0.1-1

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants

Methanol (67-56-1)
 Methylene Chloride (75-09-2)
 Propylene Oxide (75-56-9)
 Toluene (108-88-3)

Clean Air Act (CAA) Section 112 Accidental Release Prevention

Butane (106-97-8)
 Propane (74-98-6)
 Propylene Oxide (75-56-9)

California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

- US-California Proposition 65-CRT: Listed carcinogenic substance – Methylene Chloride (75-09-2), Propylene Oxide (75-56-9)
- US-California Proposition 65-CRT: Listed developmental toxin – Methanol (67-56-1) , Toluene (108-88-3)
- US-California Proposition 65-CRT: Listed female reproductive toxin – Toluene (108-88-3)

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Butane 106-97-8	X	X	X
Methanol 67-56-1	X	X	X
Methylene Chloride 75-09-1	X	X	X
Propane 74-98-6	X	X	X
Toluene 108-88-3	X	X	X

Propylene Oxide 75-56-9	X	X	X
----------------------------	---	---	---

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards *2	Flammability 2	Instability 0	Physical and Chemical Properties *
<u>HMIS</u>	Health hazards *2	Flammability 2	Physical hazards 0	Personal protection X

Issue Date 11-Apr-2015
 Revision Date 8-May-2015

Revision Note
 No Information available

Disclaimer
 The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet