



HORNADY MFG. CO.

Safety Data Sheet

Hornady® One Shot® Gun Cleaner & Dry Lube

SECTION 1: Identification

1.1 Product identifier

Product name	Hornady® One Shot® Gun Cleaner & Dry Lube
Product number	#9990, #99901
Brand	Hornady®

1.2 Other means of identification

Gun Cleaner, Lube, One Shot®

Trade Names: Hornady® One Shot® Gun Cleaner & Dry Lube (aerosol)

1.3 Recommended use of the chemical and restrictions on use

Firearm Cleaner & Lubricant

1.4 Supplier's details

Name	Hornady Mfg. Co.
Address	P.O. Box 1848 Grand Island NE 68802 USA

Telephone	(308) 382-1390
Fax	(308) 382-5761
email	www.hornady.com

1.5 Emergency phone number(s)

CHEMTREC: (800) 424-9300 / (703) 527-3887

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Flammable aerosols, Cat. 1
- Aspiration hazard, Cat. 1
- Specific target organ toxicity (repeated exposure), Cat. 2
- Toxic to reproduction, Cat. 2
- Skin corrosion/irritation, Cat. 2
- Hazardous to Aquatic Environment- Long Term Hazard Category 2.

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2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H222	Extremely flammable aerosol
H304	May be fatal if swallowed and enters airways
H373	May cause damage to organs through prolonged or repeated exposure
H361	Suspected of damaging fertility or the unborn child
H315	Causes skin irritation
H225	Highly flammable liquid and vapor
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local and national regulations
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P314	Get medical advice/attention if you feel unwell.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P264	Wash thoroughly after handling.
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P321	Specific treatment (see ... on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Routes of Entry:

Inhalation: Yes Absorption: Yes Ingestion: Yes

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

1. N-HEXANE

Concentration	≤ 65 % (weight)
EC no.	203-777-6
CAS no.	110-54-3
Index no.	601-037-00-0

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2. Component 2 (trade secret)*

Concentration ≤ 20 % (weight)

3. Petroleum gases, liquefied, sweetened, if they contain > 0.1% w/w Butadiene

Concentration ≤ 15 % (weight)

EC no. 270-705-8

CAS no. 68476-86-8

4. OTHER COMPONENTS PRESENT IN LESS THAN 1% CONCENTRATION

Concentration Balance

Remaining components do not contribute any significant additional hazards

Trade secret statement (OSHA 1910.1200(i))

*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Medical Conditions Aggravated by Exposure: None reported by the manufacturer.
If inhaled	Remove victim to fresh air at once. If breathing is difficult, provide supplemental oxygen. If breathing has stopped, provide artificial respiration. Seek immediate medical attention. Provide supportive treatment, keeping victim warm and quiet. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
In case of skin contact	Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
In case of eye contact	Flush eyes thoroughly with copious amounts of water for at least 20 minutes, holding eyelids open to ensure complete flushing. Seek immediate medical attention
If swallowed	Do not induce vomiting. Call a physician or poison control center for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration

4.2 Most important symptoms/effects, acute and delayed

No known significant effects or critical hazards.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

If breathing has stopped, provide artificial respiration. Seek immediate medical attention.

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SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide

5.2 Specific hazards arising from the chemical

Emits toxic fumes under fire conditions. The flammability of an aerosol by WHMIS is determined by its flame-extension or its flashback. The flame extension of this product is greater than 45 cm. Fire Code: Level 3 Aerosol (per NFPA 30B). Do not use in presence of open flames or sparks. Do not place in hot water or near radiators, stoves, or other sources of heat. Exposure to heat or sunlight may cause cans to burst and propel contents. Water from fog nozzles may be helpful in cooling un-ruptured containers to prevent build-up. Burning may produce hazardous products of combustion including fumes, smoke, carbon dioxide and/or carbon monoxide.

5.3 Special protective actions for fire-fighters

As in any fire, wear a self-containing breathing apparatus is pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Containers may explode in the heat of a fire. Flammable liquid and vapor. Cool containing vessels with water spray in order to prevent pressure build-up, auto-ignition or explosion. Avoid spreading burning liquid with water used to cool containers. Keep containers cool until well after the fire is out. Prevent runoff from fire control dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters should wear full-face, self-containing breathing apparatus (MSHA/NIOSH approved or the equivalent) and impervious clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.3 Methods and materials for containment and cleaning up

Secure spill area, remove or minimize all sources of ignition, and maximize ventilation. Stop spill or leak at source if safely possible. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment. Use proper personal protective equipment as indicated in section 8. Recover free liquid or cover with inert absorbent material and place into appropriate container(s) for disposal. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers or any natural waterway or drinking supply. Contact appropriate local and/or provincial authorities for assistance and/or reporting requirements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharge. Keep away from heat, sparks, and flame. Do not ingest or inhale. Avoid breathing vapors. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating, drinking, or smoking.

Contents under pressure. Container may explode if heated. Direct inhalation of spray may be harmful. Keep out of reach of children.

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7.2 Conditions for safe storage, including any incompatibilities

Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store in unmarked containers or storage devices. Store in a tightly closed container. Store in an area equipped with automatic sprinklers or fire extinguishing system. Empty containers contain product residues and should be treated as if full. Bond and ground all equipment when transferring product from one container to another.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. n-Hexane (CAS: 110-54-3)

PEL (Inhalation): 500 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 1800 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 50 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 50 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

General mechanical ventilation and local exhaust is required for use with this product. When storing large volumes of this product (e.g. more than 1 gallon), use explosion-proof ventilation equipment. Facilities storing or using large quantities of this material should be equipped with an eyewash facility and a safety shower.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Approved safety glasses with side shields should be used with this product. If splashing is anticipated, splash goggles and a face shield are recommended.

Skin protection

Where contact is likely, impervious gloves are recommended. Do not wear rings, watches, or jewelry that could entrap the material against the skin.

Body protection

None required under normal conditions.

Respiratory protection

A respiratory protection program that meets ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirators use. Do not inhale vapors.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Aerosol. Pale yellow liquid.
Odor	N/A
Odor threshold	Characteristic odor
pH	ND
Melting point/freezing point	-20 °C (n-Hexane)
Initial boiling point and boiling range	69 °C (155 °F) @ 760 mm Hg
Flash point	-22 °C (-7.6 °F), n-HEXANE
Evaporation rate	N/A
Flammability (solid, gas)	Flammable
Upper/lower flammability limits	Upper Explosive Limit (UEL): 7.0, Lower Explosive Limit(LEL): 1.25
Vapor pressure	160 mbar @ 20 °C (n-Hexane)
Vapor density	N/A
Relative density	0.675-0.696
Solubility(ies)	Negligible
Partition coefficient: n-octanol/water	N/A
Auto-ignition temperature	223 °C (433.4 °F), n-HEXANE
Decomposition temperature	N/A
Viscosity	0.31 mPa @ 20 °C (n-Hexane)
Explosive properties	Fire Code: Level 3 Aerosol (per NFPA 30B)
Oxidizing properties	N/A

Other safety information

Additional Information: Vapor Density (n-Hexane): 2.97 (air=1.0); VOC Content: 120 g/L

SECTION 10: Stability and reactivity

10.1 Reactivity

Polymerization: Will not occur.

10.2 Chemical stability

Stable under normal conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

N/A

10.4 Conditions to avoid

Exposure to excessive heat or open flames, storage in open container, long exposure to intense sunlight, and incompatible materials.

10.5 Incompatible materials

Strong oxidizing agents, fluorine, liquid chlorine, dinitrogen tetroxide, magnesium perchlorate, strong acids, alkalis.

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide, low molecular weight hydrocarbons and other organic compounds.

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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

See section 2

Skin corrosion/irritation

See section 2

Serious eye damage/irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

This product is not expected to cause mutagenic effects in humans. Mutagenic effects have occurred in experimental animals.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Mutagenicity

This product is not expected to cause mutagenic effects in humans. Mutagenic effects have occurred in experimental animals

Embryotoxicity

This product is not expected to cause embryotoxic effects in humans.

Teratogenicity

This product is not expected to cause teratogenic effects in humans. Teratogenic effects have occurred in experimental animals.

Reproductive toxicity

This product is not expected to cause reproductive harm in humans. Adverse reproductive effects have occurred in experimental animals.

STOT-single exposure

N/A

STOT-repeated exposure

See section 2

Aspiration hazard

N/A

Toxicity Data:

n-Hexane: Draize test, rabbit, eye: 10 mg Mild; inhalation, mouse: LC₅₀ = 150,000 mg/m³/2H; Inhalation, rat: LC₅₀ = 48,000 ppm/4H; Inhalation, rat: LC₅₀ = 627,000 mg/m³/3M; Oral, rat: LD₅₀ = 25 gm/kg. Tumorigenic effects have been reported in experimental animals.

Additional information

Medical Recommendations: Treat symptomatically

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SECTION 12: Ecological information

Toxicity

Environmental Stability:

Estimated BCF values = 2.24 and 2.89. These values suggest that hexane will show low bio-concentration in aquatic organisms. Estimated Koc value = 4.11. Expected to exist entirely in the vapor phase in ambient air, expected half-life 2.8 days. Expected to biodegrade but not bio-concentrate.

Effect on Plants & Animals:

This product will show slight soil mobility and is expected to rapidly volatilize from moist surface soils. Volatilization and adsorption are expected to be the most important fate process.

Effect on Aquatic Life:

Photolysis or hydrolysis is not expected to be important. WGK (Germany): 1

SECTION 13: Disposal considerations

Disposal of the product

Dispose of in accordance with federal & provincial hazardous waste laws.

Special Considerations

U.S. EPA Hazardous Waste: D001 (Characteristic – Ignitability). If the material is unsuitable for recycling or reclamation. Enclosed-controlled incineration is recommended unless otherwise prohibited by local ordinance.

SECTION 14: Transport information

49 CFR (GND):

UN1950, AEROSOLS, 2.1, LTD QTY (≤ 0.5 L); or CONSUMER COMMODITY, ORM-D

IATA (AIR):

UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD (≤ 0.5 L); or ID8000, CONSUMER COMMODITY, 9

IMGD (OCN):

UN1950, AEROSOLS, 2.1, LTD QTY. (≤ 0.5 L)

TDGR (Canadian GND):

MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 0.5 L)

ADR/RID (EU):

UN1950, AEROSOLS, 2.1, LTD QTY (≤ 0.5 L)

MEXICO (SCT):

UN1950, AEROSOLS, 2.1, CANTIDAD LIMITADA (≤ 0.5 L)

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components

Chemical name: Hexane
CAS number: 110-54-3

New Jersey Right To Know Components

Common name: n-HEXANE
CAS number: 110-54-3

Pennsylvania Right To Know Components

Chemical name: Hexane
CAS number: 110-54-3

Canadian Domestic Substances List (DSL)

Chemical name: Hexane
CAS: 110-54-3

California Prop. 65 components

Chemical name: N-HEXANE
CAS number: 110-54-3
12/15/2017 - Male reproductive toxicity

SARA Reporting Requirements

This product contains n-Hexane, a chemical subject to SARA Section 313 reporting requirements

SARA Threshold Planning Quantity

NA

TSCA Inventory Status

All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status

CERCLA Reportable Quantity (RQ)

n-Hexane: 2,270 kg (5,000 lbs)

Other Federal Requirements

This product does not contain any Class 1 or Class 2 ozone depletors. n-Hexane is listed as a hazardous air pollutant (HAP). None of the chemicals in this product are listed as Priority Pollutants under the Clean Water Act (CWA)

Other Canadian Regulations

This product has been classified according to the hazard criteria or the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDL. None of the components of this product are listed on the Priorities Substances List.

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67/548/EEC (European Union) and CLP/GHS (1272/2008/EC) Requirements

n-Hexane:

Flammable, Irritant, Harmful to the Environment (F, Xi, N).

Risk Phrases (R):

R12- Extremely flammable. R38- Irritating to skin. R48/20- Harmful danger of serious damage to health by prolonged exposure through inhalation. R62- Possible risk of impaired fertility. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65- Harmful- may cause lung damage if swallowed. R67- Vapors may cause drowsiness and dizziness.

Safety Statements (S):

S9- Keep container in a well-ventilated place. S16- Keep away from sources of ignition- No smoking. S29- Do not empty into drains. S33- Take precautionary measures against static discharges. S36/37- Wear suitable protective clothing and gloves. S61- Avoid release to the environment. Refer to special instructions /Safety Data Sheets. S62- If swallowed, do not induce vomiting- seek medical advice immediately and show this container or label.

Hazard Statements (H):

H222- Extremely flammable aerosol. H225- Highly flammable liquid and vapor. H304- May be fatal if swallowed and enters airways. H315- Causes skin irritation. H336- May cause drowsiness or dizziness. H361- Suspected of damaging fertility or the unborn child. H373- May cause damage to organs through prolonged or repeated exposure. H411- Toxic to aquatic life with long lasting effects

Precautionary Statements (S):

P210- Keep away from heat/sparks/flames/hot surfaces-no smoking. P261- Avoid breathing fume/gas/mist/vapors/spray. P273- Avoid release to the environment. P281- Use personal protective equipment as required. P301+310- If SWALLOWED- immediately call a POISON CENTER or doctor/physician. P331- DO NOT induce vomiting. P501- Dispose of contents and container in accordance with local and national regulations.

HMIS Rating

Hornady® One Shot® Gun Cleaner & Dry Lube	
HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Rating



SECTION 16: Other information

See Section 2 (Hazards Identification). Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

16.1 Further information/disclaimer

This Safety Data Sheet complies with Health Canada's Workplace Hazardous Information System (WHIMS) & U.S. OSHA's Hazard Communication Standard 29 CFR 1910.1200. To the best of Hornady Manufacturing Company's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product. Contact the manufacturer for additional information

16.2 Preparation information

Prepared By: S. Duncan