

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: HYFLUID™
Product Description: Hydraulic fluid
Intended Use: Hydraulic fluid for tools.

COMPANY IDENTIFICATION

Supplier: BURNDY LLC
 47 East Industrial Park Drive
 Manchester, NH 03109 USA

24 Hour Emergency (INFOTRAC) (800) 535-5053 (*US and Canada*)
 (352) 323-3500 (*International*)
Burndy Informational Number (603) 647-5000

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION

Health	Environmental	Physical
<ul style="list-style-type: none"> •Acute Toxicity - Inhalation, Category 4 •Skin Irritation - Category 3 •Eye Irritation - Category 2B •Carcinogen - Category 2 	<ul style="list-style-type: none"> •Chronic Toxicity - Category 4 	<ul style="list-style-type: none"> •No classifiable hazard

LABELLING

Symbols:



Health Hazard

Acute Toxicity

Signal Word: Warning

Hazard Statements

- H 316: Causes mild skin irritation
- H 320: Causes eye irritation
- H 332: Harmful if inhaled
- H 351: Suspected of causing cancer
- H 413: May cause long lasting harmful effects to aquatic life

Precautionary Statements

- P 201: Obtain special instructions before use
- P 202: Do not handle until all safety precautions have been read and understood
- P 260: Avoid breathing dust/fume/gas/mist/vapors/spray
- P 271 :Use only outdoors or in well-ventilated areas
- P 264: Wash thoroughly after handling
- P 281: Use personal protective equipment as required
- P 273: Avoid release to the environment

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Hazardous Substance(s) or Complex Substance(s)

Name	Common Name/Synonym	CAS#	Percentage	Impurities
Mineral Oils	Mineral oils, untreated and mildly-treated oils	Mixture	90%	None Known

* 10% material composition inclusive of inert and non-hazardous filler withheld as trade secret in accordance with paragraph 1910.1200(i)(1).

SECTION 4 FIRST AID MEASURES

ROUTES OF ENTRY: Inhalation, Ingestion, Contact

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation: This product has low volatility and is not expected to cause respiratory tract irritation under normal conditions of use. Exposures to high mist levels in poorly ventilated areas may cause upper respiratory tract irritation and difficulty breathing. If symptoms develop move exposed individual to fresh air and evaluate for respiratory distress. Get immediate medical help for someone who is having difficulty breathing.

Eye Contact: This product is not expected to cause eye irritation under normal conditions of use. Symptoms of slight eye irritation may result when direct contact occurs, or when exposed to high mist levels in poorly ventilated areas. Seek medical help if irritation or other symptoms develop.

Skin Contact: This product is not expected to cause skin irritation under normal conditions of use. Prolonged or repeated direct exposure to the skin may result in symptoms of irritation and redness. In severe cases, prolonged or repeated contact may result in dermatitis accompanied by symptoms of irritation, itching, dryness, cracking, and/or inflammation. Wash exposed area with running water and mild soap. Get medical help if persistent irritation develops.

Ingestion: May cause stomach irritation, discomfort, nausea, and in some cases vomiting. If ingested contact poison control center. Do not induce vomiting unless directed to do so. Do not give anything by mouth to an individual who is unconscious or convulsing. Seek medical attention if symptoms develop.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: CO₂, foam, dry chemical, or water fog.

Inappropriate Extinguishing Media: Straight Streams of Water onto product may cause spreading and intensity of fire.

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards/Combustible Products: Product is not readily ignitable, but may burn if preheated. Products of combustion include oxides of carbon.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND EMERGENCY PROCEDURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See Section 5 for firefighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for Personal Protective Equipment.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, sewer, basements or confined areas. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

CLEAN UP AND CONTAINMENT METHODS

Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. Do not touch or walk through spilled material. Avoid breathing direct contact and wear specific protective equipment specified in section 8. Absorb or cover with dry earth, sand or other non-combustible material and vacuum or sweep to transfer material to containers. Prevent entry into waterways, sewer, basements or confined areas.

Water Spill: Confine the spill immediately with booms. Stop leak if you can do it without risk. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted.

Note: Local regulations may prescribe or limit action to be taken.

SECTION 7 HANDLING AND STORAGE

Handling Procedures and Equipment

Avoid direct contact with heat and ignition sources. Avoid prolonged skin contact, contact with eyes, and ingestion. It is recommended that product is used in well ventilated areas. Wash hands before eating, drinking, and/or smoking. Empty containers may contain residue. Product residue is combustible, but will not readily burn. Read product label for additional information.

Storage Requirements

Store in a cool well-ventilated area with the lid tightly sealed when not in use. Keep away from children.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Component Name	CAS #	TWA/STEL	OSHA	ACGIH	Note
Mineral Oils	Not Assigned – Mixture	TWA	5 mg/m ³ (mist)	5 mg/m ³	N/A

ENGINEERING CONTROLS

Use local and/or mechanical general exhaust ventilation to remove chemical vapors, keep exposures below occupational exposure limits, and maintain air quality.

PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: Respiratory protection is not expected to be required under normal usage of this material. A NIOSH approved respirator is recommended in situations where airborne contaminant concentration has not been confirmed to be below safe levels.

Skin Protection: No protection is ordinarily required under normal conditions of use. If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves. In instances where splashing or soaking is expected, wear oil or chemical resistant clothing.

Eye Protection: Under normal expected conditions, safety glasses with side shields are appropriate. In instances where splashing is expected, chemical goggles or a full face shield are recommended.

Skin and Body Protection: No protection is ordinarily required under normal conditions of use. If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Specific Hygiene Measures: 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. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9

PHYSICAL/CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Liquid
Color: Amber
Odor: Mild, characteristic oil
Odor Threshold: Not Determined

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Flash Point [Method]: 166°C (330°F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.6 UEL: 7.0
Autoignition Temperature: 260-371°C (500-700°F)
Decomposition Temperature: Not Available
Boiling Point / Range: >316°C (>600°F)
Melting/Freezing Point: Not Available
Vapor Pressure: <0.1 mmHg
Vapor Density (Air = 1): Not Available
Solubility in Water: Negligible
Specific Gravity (Water = 1): 0.881
% Volatile: Not Applicable
Evaporation Rate (n-butyl acetate = 1): Not Available
Viscosity: 150 at 40°C (100°F)
Partition Coefficient (n-Octanol/Water): Not Available
pH: Not Applicable
Pour Point: -60°C (-76°F)
Molecular Weight: Not Available
Molecular Formula: Proprietary Mixture
DMSO Extract (mineral oil only), IP-346: Not Available

SECTION 10

STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat and contact with incompatible materials.

MATERIALS TO AVOID: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition will produce oxides of carbon.

POSSIBILITY OF HAZARDOUS REACTIONS: None are known.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY VALUES

Ingredient	LD ₅₀ /LC ₅₀ Route and Species	Conclusion / Remarks
Mineral Oil	LD ₅₀ : >24 g/kg, Rat Oral LC ₅₀ : 2062 PPM, Rat Inhalation	Oral test caused diarrhea. Inhalation caused spastic paralysis and convulsions.

ACUTE EFFECTS

Eye Contact: Direct contact with product can cause eye irritation.

Skin Contact: Prolonged contact may lead mild skin irritation, folliculitis, oil acne, and dermatitis.

Inhalation: Breathing vapors, mists, or fumes may cause irritation to respiratory tract, especially if product has been heated.

Ingestion: May cause gastric distress, stomach pains, vomiting, and diarrhea.

Target Organ Effects: Skin Dermatitis, Irritation

Medical Conditions Aggravated by Exposure: Preexisting skin, eye or respiratory disorders may become aggravated through prolonged exposure.

CHRONIC/OTHER EFFECTS

Chronic exposure to this product can cause skin dermatitis. Some mineral oils are associated with fibrosis of the lungs, asthma, and skin cancer. Some forms of mineral oils (untreated and mildly treated) are listed as carcinogens by IARC and suspected carcinogens by ACGIH.

Additional information may available by request.

Carcinogenicity: IARC: Yes ACGIH: Suspected (A2) NTP: NO OSHA Regulated: NO

The following ingredients are cited on the lists below: Mineral Oils: 3

--REGULATORY LISTS SEARCHED--

1 = NTP CARC
2 = NTP SUS

3 = IARC 1
4 = IARC 2A

5 = IARC 2B
6 = OSHA CARC

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Ingredient	LC ₅₀ and Species	Conclusion / Remarks
Mineral Oil	100 mg/L / 96 hr., <i>Lepomis macrochirus</i> (Bluegill Fish) 100 mg/L / 96 hr., <i>Oncorhynchus mykiss</i> (Rainbow trout)	Not acutely toxic to these fish species.

Environmental Fate

There is limited data regarding the mobility, degradability, and potential for bioconcentration in aquatic species for the ingredients of this product. This product is not expected to be toxic to aquatic organisms. There is limited data available regarding the biodegradability, mobility, and bioconcentration of this product. Although data does not show acute toxicity, oil releases may cause long term environmental effects. Industrial products should not be discharged to sewers or other water sources to prevent the risks of long term adverse effects and environmental contamination.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied.

DISPOSAL RECOMMENDATIONS

Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product is not listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

SECTION 14 TRANSPORTATION

Regulatory Information	UN Number	Proper Shipping Name	Hazard Class	Packing Group	Label(s)	RQ	Additional Information
US DOT	Not Regulated by DOT						
TDG	Not Regulated for Land Transport						
ARD	Not Regulated for Land Transport						
IATA	Not Regulated for Air Transport						
IMDG	Not Regulated for Sea Transport						

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: Delayed Health

SARA (313) TOXIC RELEASE INVENTORY: No

CALIFORNIA PROP 65: Warning: This product contains chemicals known to the State of California to cause cancer.

CLEAN WATER ACT/OIL POLLUTION ACT: This product contains mineral oil and is subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

INTERNATIONAL REGULATIONS:

WHMIS CLASSIFICATION

Class D2A: Possible carcinogen

Class D2B: Skin/Eye Irritant

WHMIS HAZARD SYMBOLS



EUROPEAN INVENTORY OF EXISTING CHEMICALS (EINECS):

Chemical Name	CAS Number	List Citations
Mineral Oils	Not Assigned / Mixture	Not Assigned

EU RISK (R) AND SAFETY (S) PHRASES:

- R 21/22: Harmful in contact with skin or if swallowed.
- R 36: Irritating to the eyes.
- R 45: May cause cancer.
- R 52: Harmful to aquatic organisms.
- S16: Keep away from sources of ignition.
- S 29: Do not empty into drains.
- S 24/25: Avoid contact with skin and eyes.
- S 36/37: Wear suitable gloves and eye/face protection.

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
Mineral Oils	Not Assigned / Mixture	10

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16

OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health - 1 Flammability - 1 Reactivity - 0

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATINGS:

Health - 1 Flammability - 1 Physical Hazard - 0 PPE - B

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Date	Description	Sections Affected
06/02/2011	MSDS Version written	1-11
07/15/2011	Updated to GHS criteria, additional sections added.	1-16
08/01/2011	Update	15
08/30/2017	Update	1-16
07/03/2019	Update	1-16

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