


SAFETY DATA SHEET

1. IDENTIFICATION

Product Name:	DuraKut 701EP
Supplier:	Falcon Industrial Inc. 3775 N. Richards Street Milwaukee, WI 53212
Telephone:	(262) 241-7559
Fax:	(414) 446-6959
In case of Emergency:	DOMESTIC NORTH AMERICA 800-424-9300 INTERNATIONAL 703-527-3887 (collect calls accepted)
Product Description	DuraKut 701EP is a premium water extendable mineral oil based metalworking fluid concentrate. See product data sheet for a detailed description of recommended use.

2. HAZARDS IDENTIFICATION

GHS Classification	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A AQUATIC TOXICITY (ACUTE) - Category 2
GHS Label Hazard pictogram	
Signal word Hazard Statement	Warning H319 - Causes serious eye irritation. H315 - Causes skin irritation. H401 - Toxic to aquatic life.
Precautionary statements Prevention	P280 - Wear protective gloves. Wear eye or face protection. P273 - Avoid release to the environment.
Response	P264 - Wash hands thoroughly after handling. P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P332 + P313 - If skin irritation occurs: Get medical attention.

Storage
Disposal

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.
Not applicable
P501 – Dispose of contents and container in accordance with all local, regional, national and international regulations.
Defatting to the skin

Other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: DuraKut 701EP is a premium soluble water extendable metalworking fluid of a mixture of lubricity additives and corrosion inhibitors in aqueous solution. Durakut701EP is a mixture of refined mineral oil, emulsifiers, additives, and water.

Components/Ingredients	CAS No.	%
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	64742-52-5	<30.0
Boric Acid, Compound with 2-Aminoethanol	26038-87-9	<8.0
Fatty Acids, Tall Oil Compounds	68953-28-6	<8.0
Polyol ester	Proprietary	<6.0
2-methyl-2,4-pentanediol	107-41-5	<3.0
Alcohols, C12-C15, Ethoxylated	68131-39-5	<2.0
Triethanolamine	102-71-6	<2.0

N/E = Not Established.
N/A = Not Applicable.

4. FIRST AID MEASURES

Eye	Irrigate with flowing water immediately and continuously for a minimum of 15 minutes. Get medical assistance immediately if irritation occurs.
Skin	Wash contact areas with soap and water. Sensitive individuals may require gloves.
Ingestion	Seek medical attention immediately. DO NOT induce vomiting.
Inhalation	If inhaled, remove to fresh air. The exposed person may need to be kept under medical attention. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Description of necessary first aid measures / specific treatments

No specific treatment.

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treatment should in general be symptomatic and directed to relieving any effects.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Foam, dry chemical, and carbon dioxide are appropriate extinguishing media. DO NOT use water jet to extinguish flames.
Hazardous Combustion Products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) Nitrogen oxides (NO, NO ₂ etc.) Chlorine
Special Fire Fighting Instructions	Keep people away and evacuate the area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self – contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.
Unusual Fire or Explosion Hazards	Do not use welding or cutting torch on or near drum even when empty. If improperly reused for other product, it could ignite.
Flash Point (COC)	Not determined
Auto Ignition Temperature	Not determined
Explosion Limits	LEL: No data UEL: No data

6. ACCIDENTAL RELEASE MEASURES

In the case of a spill or accidental release, notify proper authorities in accordance to 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. The National Response Center can be contacted at (800)424-8802.

Wipe up or mop up spill and absorb material with oil-dri. Dispose of material in accordance with Federal, State and Local regulations. Do not touch or walk through spilt material. Avoid breathing vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Surfaces may be slippery.

7. HANDLING AND STORAGE

Handling	Avoid high heat, flames or ignition sources. Wear appropriate PPE, avoid breathing vapor or mist. Do not ingest. Empty containers retain product residue and can be hazardous. Keep in the original container or an alternative made from a compatible material; keep closed when not in use. Do not reuse original container. Avoid prolonged or repeated contact with skin. During normal usage, solid particles from work pieces or tooling will contaminate the fluid and may cause abrasions of the skin. Certain materials such as; chromium, cobalt, and nickel, can contaminate the metalworking fluid, which may cause allergic skin reactions. It is critical to monitor the fluids concentration, and maintain the fluid concentration at the recommended level. An increase in concentration may lead to excessive defatting of the skin. It is important to minimize the amount of tramp oil introduced to the working fluid, and remove as much foreign oil, fines and debris from the fluid as often as possible.
Storage	Store in a closed, properly labeled container, in accordance with all regulations. Store in the original container, away from direct sun light, heat sources, and incompatible materials. Keep container tightly sealed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. No special requirements under ordinary conditions of use and with adequate ventilation.
Environmental Controls	Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.
Base Oil - 64742-52-5	ACGIH TLV TWA: 5mg/m ³ – 8 hours
Triethanolamine	ACGIH TLV TWA: 5 mg/m ³ – 8 hours
Boric Acid	ACGIH TLV STEL: 6 mg/m ³ – 15 minutes (Inhalable Fraction) TWA: 2 mg/m ³ – 8 hours (Inhalable Fraction)

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.

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.

Eye / Face Protection	If contact is likely, safety glasses with side shields are recommended.
Skin Protection	No skin protection is ordinarily required under normal conditions of use. Use of protective gloves is a good practice. When the risk of skin exposure is high, chemical resistant aprons and/or impervious chemical suits and boots may be required. PPE for the body should be selected based on the potential for contact with the product and the potential risks involved if contact may occur.
Hand Protection	The use of protective gloves is recommended for sensitive individuals. Protective skin creams may be used. Wear chemical resistant gloves when handling the concentrate material. Wear protective gloves if prolonged or repeated contact is likely.
Respiratory Protection	The choice of respiratory protections is dependent upon the environment the product is being used and the environment of the product is used in. Safety procedures should be developed for all intended conditions of handling and use of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber Liquid, dyed blue
Odor:	Mild Characteristic Odor
Density (at 20°C):	8.29 lbs / gal
Flash Point [Method]:	>300°F
Flammable Limits:	LEL: N/D UEL: N/D
Autoignition Temperature:	Not Determined
Boiling Point/Range:	>100°C (212°F)
pH (at 5.0%):	9.20 – 9.40
Solubility in Water:	Dispersible
Viscosity:	100 cSt at 40°C
Freezing Point:	<0°C

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Avoid high heat, flames or ignition sources.
Incompatibility with other Materials	Strong acids and oxidants.
Hazardous decomposition materials	Hazardous decomposition products are not expected to form under normal storage conditions.
Hazardous polymerization	Not expected to occur.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure Routes of entry anticipated: Dermal, Inhalation.

Potential Acute Health Effects

Eye Contact	Exposure to eyes may be irritating.
Inhalation Serious	Exposure to decomposition products may cause a health hazard. effects may be delayed following exposure.
Skin Contact Ingestion	Defatting to the skin; may cause skin dryness and irritation. Not expected; no known significant effects or critical hazards.

Symptoms related to; physical, chemical and toxicological characteristics

Eye Contact	Irritation, dryness, stinging, tearing
Inhalation	Not determined
Skin Contact	Skin irritation, dryness, redness, cracking
Ingestion	Not determined

Delayed / Chronic Health Effects

Eye Contact	Stinging, itching, and irritation.
Skin Contact	Prolonged or repeated contact can cause skin defatting, leading to; dermatitis, cracking, and irritation.
Ingestion	While not likely, ingestion may cause nausea and diarrhea.

Potential Chronic Health Effects

Carcinogenicity	Not known
Mutagenicity	Not known
Teratogenicity	Not known
Developmental	Not known
Fertility	Not known

12. ECOLOGICAL INFORMATION

Environmental Effects:	The intrinsic properties of this product may cause injury to an aquatic organism in a short-term exposure.
Biodegradation:	Not determined
Bioaccumulation Potential:	Not determined
Mobility	Soluble in water

13. DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Dispose of in accordance to federal, state and local regulations for hydrocarbons. Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

RCRA Information: The unused product, in our opinion, is not specifically 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.

14. TRANSPORT INFORMATION

Proper Shipping Name

LAND (DOT): Not regulated for land transport

LAND (TDG): Not regulated for land transport

15. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: Under some use conditions, this material may be considered to be hazardous in accordance with OSHA 29 CFR 1910.1200.

Complies with the following national/regional chemical inventory requirements: AICS, ENCS, IECSC, KECI, PICCS, TSCA

EPCRA SECTION 302: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The following ingredients are cited on the lists below: None.

--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 Z	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

16. ADDITIONAL INFORMATION

Revision Date: January 17th, 2017

Revision #: DML-2

Disclaimer: The information presented herein has been compiled from sources considered to be dependable and is accurate as of the date issued. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use are beyond our control, we make no warranty regarding the accuracy of such data or its suitability for any use or for any consequence of its use. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Safe handling and use remains the responsibility of the purchaser and the purchaser has the sole responsibility to determine the suitability of the materials for any use and the manner of user contemplated. We assume no responsibility for injury to the recipient or to third persons or for any damage to any property and the recipient assumes all such risks.