



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

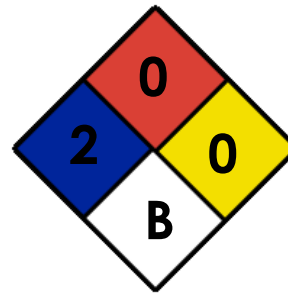
Product Name: **DURAKUT 4010**

Manufactured by: Falcon Industrial Inc.
500 W. Brown Deer Rd. #206
Bayside WI 53217

Customer Service: (262) 241-7559

For Chemical Emergency
Spill Leak Fire Exposure or
Accident Call CHEMTREC Day or
Night: DOMESTIC NORTH AMERICA
800-424-9300
INTERNATIONAL
703-527-3887 (collect calls accepted)

Product Description: Synthetic Metalworking Fluid Concentrate



2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

DURAKUT 4010 is light straw or blue colored synthetic metalworking fluid. DURAKUT 4010 is a slightly alkaline metalworking fluid concentrate. DURAKUT 4010 may be a primary skin irritant under certain situations. Spills or undesired accidental releases may result in slippery conditions.

Potential Health Effects

Eye As a primary eye irritant, may cause irritation, with a stinging sensation. Blinking and tear production may occur, along with, excess redness and swelling.

Skin May be a primary skin irritant. Prolonged, improper handling or repeated exposure may cause skin irritation or drying of the skin.



A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

Ingestion Single dose oral toxicity is considered to be low. Small amounts swallowed incidentally, during normal handling, are not likely to cause injury. Swallowing small quantities may cause diarrhea, nausea or vomiting.

Inhalation At room temperature, exposures to vapors are minimal due to the physical properties. High misting rates may cause irritation. Extended exposure to mist may cause upper respiratory irritation.

Chronic and Systemic Effects No known chronic or systemic effects.

Carcinogenicity This product is not known or suspected to cause cancer.

Acute Eye injury may result from contact. Skin irritation may result from improper use or handling.

Medical conditions potentially aggravated by exposure

May cause additional aggravation to individuals with dry and cracked skin and who are historically prone to defatting. Skin irritation may also be experienced when the fluid is allowed to penetrate the skin. Additional skin irritation may be exaggerated when the in use metalworking fluid has been contaminated with tramp oil (hydraulic oil, way lubricants, rust inhibitors, and foreign oils), dissolved metals, or when used too rich. If dermatitis or other skin irritation occurs, use barrier creams or additional PPE as a temporary control measure. Contact the Falcon Industrial, Inc. technical service group for recommendations. If used in operations which are prone to generate mist; ensure mist collectors, splash guards, and the proper ventilation are instituted for all employees in the working environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components/Ingredients	CAS No.	%	SARA III Section 313	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)
Triethanolamine	102-71-6	10-20	N/Ap	N/E	5
EO / PO Block Copolymer	Confidential	5-10	N/Ap	N/E	N/E
Polyalkylene Polyol	Confidential	1-2	N/Ap	N/E	N/E

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



4. FIRST AID MEASURES

Eye	Irrigate with flowing water immediately and continuously for a minimum of 15 minutes. Consult a physician for prompt medical attention.
Skin	Wash off with flowing water and soap or shower. Remove contaminated clothing and launder before reuse. If irritation persists, seek immediate medical attention.
Ingestion	If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
Inhalation	Remove to fresh air. If irritation persists, consult medical personnel. Inhalation can occur where high mist levels are generated. OSHA has set PEL of 15 mg/m ³ for any particulate as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/m ³ for metalworking fluid mist. If symptoms are experienced, remove source of air contamination.
Carcinogenicity	This product is not known or suspected to cause cancer.
Acute	Eye injury may result from contact. Skin irritation may result from improper use or handling.

May cause additional aggravation to individuals with dry and cracked skin and who are historically prone to defatting. Skin irritation may also be experienced when the fluid is allowed to penetrate the skin. Additional skin irritation may be exaggerated when the in use metalworking fluid has been contaminated with tramp oil (hydraulic oil, way lubricants, rust inhibitors, and foreign oils), dissolved metals, or when used too rich. If dermatitis or other skin irritation occurs, use barrier creams or additional PPE as a temporary control measure. Contact the Falcon Industrial, Inc. technical service group for recommendations. If used in operations which are prone to generate mist; ensure mist collectors, splash guards, and the proper ventilation are instituted for all employees in the working environment.

5. FIRE FIGHTING MEASURES



Extinguishing Media	Carbon dioxide, dry chemical, or chemical foam
Hazardous Combustion Products	During the fire, smoke may contain the original material in addition to unidentified toxic or irritating compounds, oxides of carbon, nitrogen and other unidentifiable products of combustion.
Special Fire Fighting Instructions	Keep people away. Isolate fire in area and deny unnecessary entry. Fight fire according to surrounding materials. Media contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Unusual Fire or Explosion Hazards	None known
Flash Point (COC)	Does not sustain combustion
Auto Ignition Temperature	Not Determined
Explosion Limits	LEL: No Data UEL: No Data
Unusual Fire or Explosion Hazards	None known

6. ACCIDENTAL RELEASE MEASURES

Clear non-emergency people from the area.

Contain material to prevent contamination of soil, surface water, or ground water.

Clean-up: Collect and recycle where possible. Absorb with material such as non-combustible material and or sand. Collect material in suitable and properly labeled open contains.

Wear appropriate personal protective equipment.

Release may cause slippery conditions.

7. HANDLING AND STORAGE



Handling Avoid contact with eyes, skin, clothing and ingestion. Do not swallow. Wash thoroughly after handling. Use only as recommended by Falcon Industrial, Inc. If frozen, thaw completely at room temperature prior to use. Do not mix with sodium nitrite or other nitrosating agents to this product, which may form nitrosamines with are suspected carcinogens. Avoid release to the environment. Use only with adequate ventilation, wear appropriate respirator when ventilation is inadequate.

Storage Store indoor in ambient temperatures. Do not store in aluminum, copper or copper alloys. Avoid extreme heat and freezing. Store away from direct sunlight in a dry, cool and ventilated area, away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls Provide general or local exhaust ventilation to control airborne levels below the exposure guidelines. OSHA has set PEL of 15 mg/m³ for any particulate as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/m³ for metalworking fluid mist. If operations generate dust, fumes, vapors or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to contaminants below any recommended or statutory limits.

Hygiene Measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at frequent intervals. Wash any contaminated clothing before reuse.

Exposure Guidelines

Regulated Material	NIOSH REL	OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL
CAS# 102-71-6				5 mg/m ³	
Metalworking Fluid Mist	0.5 mg/m ³				

Personal Protective Equipment

Eye / Face Protection Use Safety Glasses

Skin Protection	When prolonged or frequently repeated contact could occur use protection clothing such as gloves, apron, and/or boots.
Respiratory Protection	Atmospheric levels should be maintained below the exposure guideline. For most conditions no respiratory protection is needed.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light Straw or Blue Colored, Clear Liquid
Odor:	Mild Characteristic Odor
Specific Gravity (20°C):	1.05 – 1.15
Solubility in water:	Complete
pH (5% - Initial):	9.3 – 9.7

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	This product can decompose at elevated temperatures and keep from freezing. Use as directed.
Incompatibility with other Materials	Strong acids and oxidizers.
Hazardous decomposition materials	Oxides of carbon and nitrogen.
Hazardous polymerization	Will not occur.



11. TOXICOLOGICAL INFORMATION

May cause additional aggravation to individuals with dry and cracked skin and who are historically prone to defatting. Skin irritation may also be experienced when the fluid is allowed to penetrate the skin. Additional skin irritation may be exaggerated when the in use metalworking fluid has been contaminated with tramp oil (hydraulic oil, way lubricants, rust inhibitors, and foreign oils), dissolved metals, or when used too rich. If dermatitis or other skin irritation occurs, use barrier creams or additional PPE as a temporary control measure. Contact the Falcon Industrial, Inc. technical service group for recommendations.

If used in operations which are prone to generate mist; ensure mist collectors, splash guards, and the proper ventilation are instituted for all employees in the working environment.

Provide general or local exhaust ventilation to control airborne levels below the exposure guidelines. OSHA has set PEL of 15 mg/m³ for any particulate as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/m³ for metalworking fluid mist.

Acute Toxicity / Target Organ Information:

General Product / Component Information

Product may be irritating to the skin, eyes, and respiratory system. Repeated skin contact with this product may cause dermatitis. Excessive inhalation of oil mist may cause accumulation of mineral oil in the lungs accompanied by pulmonary fibrosis. Contains material that may cause target organ damage, based on animal data. Target organs: liver and kidneys.

Component LD50 / LC50

No data available for product.

Epidemiology:

No data available for product.

Carcinogenicity:

General Product / Component Information

No data available on the product as a whole. Prolonged and repeated skin contact with some mildly treated or untreated mineral oils have produced skin cancer in laboratory animals. This product contains an alkanolamine. In metalworking fluids containing amines, there is a potential for forming nitrosamines which are



Component Carcinogenicity Listings

animal carcinogens. Therefore, no nitrites or related nitrosating agents should be added. No known significant effects or critical hazards.

Teratogenicity / Reproductive Effects:

No data available for the product as a whole.

Neurotoxicity:

High vapor / aerosol concentrations (attainable only at elevated temperatures) may cause central nervous system effects such as dizziness, drowsiness or headaches.

Mutagenicity:

No data available on this product as a whole.

Other Information:

No information available.

12. ECOLOGICAL INFORMATION

No Data Available

13. DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SANITARY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations.

For unused or uncontaminated product the preferred option is recycling the product. As a service to its customers, Falcon Industrial, Inc. will help locate recyclers or appropriate disposal facilities. Please contact your Falcon Industrial, Inc. representative.

14. TRANSPORT INFORMATION



Proper Shipping Name: Not a Hazardous Material

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA standard 29 CFR 1910.1200.
TSCA Status: All the components in this material are listed under TSCA inventory.

EPA SARA Title 302:	Triethanolamine					
EPA Section 304 CERCLA Hazardous Substance:	CAS #	Description			% Weight	CERCLA RQ
	None					
EPA Section 311/312 Hazard Categorization:	Acute	Chronic	Fire	Pressure	Reactive	None
	X					
EPA Section 313 Toxic Chemicals:	None					

STATE RIGHT TO KNOW

Many states have enacted Community Right-To-Know laws which require information beyond that mandated by federal laws. Since some of these laws are inconsistent with the federal laws, the information in this sheet may not meet the requirements of every state.

California Proposition 65 statement: This product may contain traces of chemicals known to the State of California to cause cancer. It has the possibility of containing 1,4 dioxane and ethylene oxide.

16. ADDITIONAL INFORMATION

Revision Date: January 8th, 2013
Revision #: DML-1

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, Falcon Industrial Inc. makes 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 MSDS 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. Falcon Industrial Inc. assumes 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.