

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

Product Identifier: Jokisch W2-LF Concentrate **ProductID(PIN):**

Product Use: Watersoluble coolant, cutting and grinding fluid

Manufacturer's Name:

Jokisch GmbH

Supplier's Name:

Intercon Enterprises Inc.

11-7550 River Road

Delta, BC V4G 1C8

Canada

Germany

Tel:

Tel: 604 946 6066

Fax:

Fax: 604 946 5340

SECTION 2 - INGREDIENTS

Ingredients	%	CAS Number	LD50/LC50 of Ingredients
	0-2%	2634-33-5	>2000 mg/kg oral (rats)
	0-2%	112-34-5	
	0-2%	141-43-5	
	0-2%	80584-88-9	
	0-2%	80584-89-0	
	0-2%	88477-37-6	
	0-2%	61790-12-3	
	0-2%	3811-73-2	
	2-7%	9004-98-2	
	4-8%	94095-04-02	
	20-40%	64741-89-5	

SECTION 3 - PHYSICAL DATA

Physical State: liquid

Odour & Appearance: oil odour, yellow brown liquid

Odour Threshold (ppm): n.av.

Vapour Pressure (mm Hg): n.av.

Vapour Density (AIR=1): n.av.

Evaporation Rate: n.av.

Boiling Point: 100°C

Freezing Point: 0°C

pH: 9.2 - 9.5 @ 5% solution with water

Specific Gravity (g/ccm): 0.98 Method DIN 51 757

Coeff. Water/Oil Dist.: n.av.

SECTION 4 - FIRE AND EXPLOSION DATA

Flammability: No

Means of Extinction: Foam, Halon, Dry Chemical, Do not use Water

Flash Point: n.app.

Upper Flammable Limit: n.av.

Lower Flammable Limit: n.av.

Auto Ignition Temperature: n.app.

Hazardous Combustion Products: NO_x (nitrogen oxids) CO₂ (carbon dioxide)

Explosion Data: n.av.

Sensitivity to Static Discharge: n.app.

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SECTION 5 - REACTIVITY DATA

Chemical Stability: Yes

Incompatibility with Other Substances: Yes with strong oxidizing materials, acids

Reactivity and Under What Conditions: n. app.

Hazardous Decomposition Products: none

SECTION 6 - TOXICOLOGICAL PROPERTIES

Route of Entry: eye contact, skin contact

Effects of Acute Exposure: mild irritant when splashed in eyes

Effects of Chronic Exposure to Product: may dry out skin during extended contact

Exposure Limits: n.av.

Irritancy of Product: mild irritant when splashed in eyes

Sensitization to Product: n.av.

Carcinogenicity: n.av.

Teratogenicity: n.av.

Reproductive Toxicity: n.av.

Mutagenicity: n.av.

Synergistic Properties: n.av.

Section 7 - PREVENTIVE MEASURES

Personal Protective Equipment:

Gloves (specify): rubber gloves when in extended direct contact with concentrate

Respirator (specify): n.app.

Eye (specify): usually not necessary, safety glasses if danger of direct splashing

Footwear (specify): n.app.

Clothing (specify): change wet clothes

Other (specify):

Engineering Controls: local ventilation

Leak & Spill Procedure: pick up with binding agent and treat as waste oil

Waste Disposal: dispose of according to Federal, Provincial & local regulations

Handling Procedure: apply manually or with pump system. Do not allow oil to enter ground water

Storage Requirements: keep container closed and avoid freezing

Special Shipping Information: may desire heated shipping during winter months

Section 8 - FIRST AID MEASURES

Specific Measures:

Inhalation: on suspicion of inhalation to lungs, immediately call physician

Ingestion: call physician, do not induce vomiting, and refer to MSDS

Eyes: rinse with plenty of water, call physician

Skin: general hygiene, skin protective ointment, wash with soap & water

Information: safety data from manufacturers of components and Jokisch GmbH

Certificates from the Pharmacological Institute, Hamburg University

SECTION 9 - PREPARATION DATE OF MSDS

Prepared By: Intercon Enterprises Inc.

Phone Number: 604 946 6066

Date: January 2008