



5353 Spring Grove Avenue, Cincinnati, OH 45217 USA 513-471-8770

## Material Safety Data Sheet

### Section 1 - Product Identification

Product Name: Orion 1025 Synthetic Metalworking Fluid

#### Hazard Rating

	Health	Fire	Reactivity	
NFPA Code:	1	0	0	
0=Least	1=Slight	2=Moderate	3=High	4=Extreme

### Section 2 - Hazardous Ingredients / Identity Information

Specific Identity; Common Names	OSHA PEL	ACGIH TLV	Other
---------------------------------	----------	-----------	-------

Proprietary Formula - Specific Chemical Identities Have Been Withheld

10043-35-3

Boric Acid	15 mg/m3 (dust)	10 mg/m3 (dust)
------------	--------------------	--------------------

### Section 3 - Physical/Chemical Characteristics

Appearance	Yellow liquid
Boiling Point, Deg. F	Not Known
Evaporation, BuAcetate=1	Slower than
Odor	Mild
pH Diluted in water	9-10 (1%)
Solubility in water	Complete
Vapor Density (Air=1)	Not Known
Vapor Pressure	Not Known
Specific Gravity	1.055

### Section 4 - Fire and Explosion Hazard Data

Flash Point COC: NA Flammable Limits: LEL-Not Known UEL-Not Known  
 Extinguishing Media: Foam, dry chemical, water fog, carbon dioxide.  
 Special Fire Fighting Procedures: Cool fire exposed containers with water.  
 Do not enter a confined fire space without full bunker gear and NIOSH approved supplied air breathing apparatus.  
 Unusual Fire and Explosion Hazards: Product is water based and will not burn until water has evaporated.

### Section 5 - Reactivity Data

Stability - Stable.  
 Incompatibility - Strong acids. Acrylates. Aldehydes. Strong alkali. Anionic polymers. Copper and brass. Halogenated solvents. Ketones. Organic anhydrides. Organic halides. Oxidizing agents. Strong reducing agents.  
 Hazardous Decomposition Products - Ammonia. HCN-reducing atmosphere. Oxides of carbon. Oxides of nitrogen.  
 Hazardous Polymerization - Will not occur.  
 Other -  
 This product contains amines. Do not mix with nitrite or other nitrosating agents due to the potential for nitrosamine formation.

### Section 6 - Health Hazard Data

Routes of Entry: Inhalation=yes Skin=yes Ingestion=yes

#### Health Hazards:

The health hazards listed below are for components to this mixture. The active ingredients are diluted in water in this mixture and the severity of the listed health hazards for this product may be reduced. This product is designed to be diluted significantly with water before product use. The severity of these health hazards may be reduced further at usage concentrations.  
 (Acute and Chronic Overexposure)



5353 Spring Grove Avenue, Cincinnati, OH 45217 USA 513-471-8770

## Material Safety Data Sheet

...continued

Eyes - Corneal injury. Severe irritation.

Skin - Absorption. Severe irritation. Overexposure has been found to cause sensitization in humans. Prolonged contact may cause burns.

Inhalation - Mists may cause irritation.

Ingestion - Burns. Diarrhea. Gastrointestinal irritation. Headaches, depression, and weakness. Nausea. Ulceration. Vomiting.

Signs And Symptoms of Exposure - As Noted Above.

Medical Conditions Generally Aggravated By Exposure - None Known.

Other Precautions - NA

Other - Repeated excessive exposures to high concentrations may cause liver and kidney injury.

Carcinogenicity NTP-No IARC-No OSHA-No

Emergency and First Aid Procedures: Inhalation - remove to fresh air. Skin contact - wash using a mild soap. Eye contact - flush with water, see a physician. Ingestion - call a physician.

---

### Section 7 - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:

Dike area. Recover free product. Add a dry absorbent material to spill area.

Waste Disposal Method: Dispose by methods consistent with local state and federal regulations.

Precautions to be Taken in Handling and Storing: Keep containers tightly closed. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. To dissipate static electricity during transfer, ground and/or bond both containers. Since emptied containers retain product residue, follow warnings even after container is emptied. Residue or vapors may explode on ignition; do not cut, drill, grind or weld on or near container even when empty.

Other Precautions:  
Not Applicable

---

### Section 8 - Control Measures

Respiratory Protection: Not normally required. Use NIOSH approved supplied air breathing equipment if vapors are excessive.

Ventilation: Local Exhaust : Not normally required.  
Mechanical (General): Use general ventilation.

Protective Gloves: Use chemical-resistant gloves, if needed, to avoid skin contact.

Eye Protection: Use splash goggles or face shield when eye contact may occur.

Other Protective Clothing or Equipment: To prevent repeated or prolonged skin contact, wear impervious apron/clothing and boots.

Work/Hygienic Practices: Minimize breathing vapor, mist or fumes. Wash skin with soap and water after contact. Launder contaminated clothing.

---

### Section 9 - Regulatory Information

DOT Information

DOT Proper Shipping Name: None

DOT Hazard Code: None

UN Number: None

continued...



5353 Spring Grove Avenue, Cincinnati, OH 45217 USA 513-471-8770

## Material Safety Data Sheet

...continued

### TSCA

All components of this product are included in the TCSA inventory or are regulated under FIFRA.

### Section 313 Supplier Notification

This product contains the following chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

CAS#	Common Name	Weight%
	None	

This information should be included in all MSDSs that are copied and distributed for this material.

---

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) by CCI Inc.

---

The information set forth herein is furnished free of charge and is based on technical data that CCI Inc. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of the information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

---

**End of MSDS**

---