

## MATERIAL SAFETY DATA SHEET

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

DOWELL PRODUCT CODE: **L401** Effective Date: 09-February-2000

### **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Identification of the substance or preparation:

#### **STABILIZING AGENT L401**

Company/undertaking identification: Dowell Safety/Environment - Worldwide  
300 Schlumberger Drive  
Sugar Land, Texas 77478, USA

Corporate Emergency Phone: USA 1-281-595-3518  
Corporate Non-Emergency Phone: USA 1-281-285-7873

### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

ACETIC ACID; CAS 64-19-7; 74%  
PROPAN-2-OL; CAS 67-63-0; 10-30%  
WATER; CAS 7732-18-5; 10-30%

### **3. HAZARDS IDENTIFICATION**

Emergency Overview

Form: Liquid  
Color: Colorless  
Odor: Vinegar/alcohol

Main environmental hazards:  
None known.

Main Physical Hazards

Special Precautions: None.  
Physical Hazard: Corrosive to metals Flammable liquid

Main Health Hazards:

HMIS RATING: Health 1 Flammability 3 Reactivity 0  
Causes burns to mouth, throat and stomach. Causes severe eye burns. Causes severe skin burns.  
May cause respiratory tract irritation.  
See Section 11 for a complete discussion of health hazards.

### **4. FIRST AID MEASURES**

Eye contact: Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention at once.

Skin contact: Immediately remove contaminated clothes and shoes. Wash with soap and water for 30 minutes. Seek medical attention at once.

Inhalation: Remove to fresh air. Seek medical attention at once. If breathing has stopped, begin artificial respiration.

Swallowing: DO NOT induce vomiting. Drink large quantities of milk (preferred) or water and give milk of magnesia. Seek medical attention at once.

Notes: None.

## **5. FIRE FIGHTING MEASURES**

Extinguishing media:	Water Fog, Alcohol Foam, CO2, Dry Chemical		
Further Information:	Vapors may travel along ground to ignition source. Releases explosive hydrogen gas on contact with metals. Avoid breathing vapors.		
Flash point:	90°F		
Method:	Tag closed cup		
Flammability (explosion limits in air):			
Lower:	Not determined	Upper:	Not determined
Autoflammability (auto-ignition temperature):	Not determined		
Explosive properties (thermal decomposition temperature):	Not determined		
NFPA Rating: Health 1 Flammability 3 Reactivity 0 Other: None			
Combustion products: see Section 10.			

## **6. ACCIDENTAL RELEASE MEASURES**

After spillage/leakage:	Contain with dikes. Use explosion proof equipment to recover. Remove all sources of ignition. Soak up residual on inert absorbant (sand). Put in steel or plastic drum approved for flammables.
See Section 8 for protective equipment information.	
See Section 13 for disposal information.	

## **7. HANDLING AND STORAGE**

Special Precautions:	Keep away from heat, sparks, and flame. Store out of direct sunlight in well ventilated area. Keep container closed when not in use. Use with adequate ventilation. Do not cut or weld on container.
Packaging requirements:	High density polyethylene (HDPE) drum or can.
Ventilation:	Provide ventilation to keep airborne concentrations below exposure limits.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory protection:	Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow). Use SCBA (self contained breathing apparatus) in confined areas and for emergencies.
Eye protection:	Chemical splash goggles and face shield.
Hand protection:	Impervious gloves made of: Neoprene
Skin protection:	Chemical resistant suit. Chemical resistant boots.

### Exposure Limit Guidelines (mg/m3)

Components having no established limits are not listed.

(NE: Not established, ND: Not determined)

These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV.

TWA is the 8 hour time weighted average. STEL is the short term exposure limit.

"C" indicates the value is a maximum concentration (ceiling).

	ACETIC ACID			PROPAN-2-OL			-	-
	TWA	STEL	ANM	TWA	STEL	ANM		
<b>CANADA</b>	ND	ND		NE	NE			
<b>USA: ACGIH</b>	25	37		985	1230			
<b>USA: OSHA</b>	25	NE		980	1225			

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form:	Liquid
Color:	Colorless
Odor:	Vinegar/alcohol
pH value:	0.5 (77°F)
Boiling point:	Not determined
Pour point:	Not determined
Vapor pressure:	1.1 kPa
Relative density (specific gravity):	1.00-1.05 (68°F)
Bulk Density (solids):	Not applicable
Solubility in water:	Soluble 68°F
Viscosity:	Not determined
Relative Vapor Density (air=1):	>1
% Volatile:	100
Nature	Acid

**10. STABILITY AND REACTIVITY**

Stability:	Stable.
Conditions to avoid:	None.
Materials to avoid:	Metals Bases Oxidizers
Hazardous Polymerization:	Will not occur.
Dust explosion hazard (solids):	Not applicable.
Special hazards:	None.
Hazardous decomposition products:	When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

**11. TOXICOLOGICAL INFORMATION**

Eye contact:	Corrosive. Rapidly causes pain, burns, corneal injury. May cause permanent damage and blindness.
Skin contact:	Corrosive; rapidly causes pain, burns, redness, swelling and damage to tissue.
Inhalation:	Irritant; may cause pain and coughing.
Ingestion:	Corrosive; causes pain and severe burns to mouth, throat and stomach.
Carcinogenicity:	Not listed by IARC, USA NTP, or USA OSHA.
Mutagenicity:	Not known to cause heritable genetic damage.
Teratogenicity:	Not known to cause birth defects.
Target organs which may be affected:	None known.
Sensitization:	Not known to cause allergic reaction.
Other:	Can cause headache, narcosis.

**12. ECOLOGICAL INFORMATION**

Information on product as a whole:

Main environmental hazards: None known.  
Degradability: Biodegradable. BOD = 0.92 p/p; COD = 0.97 p/p  
Fish Toxicity: Low toxicity to fish.

Information on components:

CHEMICAL NAME: ACETIC ACID

Fish Tox - Fresh Water: LC50=(96hr) 88 Species: Pimephales promelas

CHEMICAL NAME: PROPAN-2-OL

Invertebrate Tox: LC50=(96hr) 1150 mg/l

LC50=(48hr) 1400 mg/l Species: Brown shrimp (Crangon crangon)

Fish Tox - Fresh Water: LC50=(7d) 7060 mg/l Species: Poecilia reticulata

**13. DISPOSAL CONSIDERATIONS**

Product: Ship via permitted waste hauler to permitted hazardous waste disposal facility for incineration.  
Container: Sell drum to an approved drum reconditioner or triple rinse, crush, and ship to sanitary landfill unless prohibited by local regulations.  
USA EPA RCRA: D001

**14. TRANSPORT INFORMATION**

ICC Tariff Classification Compound, Gas or Oil Well Drilling  
ICC Item Number: 138640 ICC Class: 50 LTL 35 TL  
CERCLA RQ: 770 gallons (acetic acid).  
Department of Transportation (DOT)

Package Size: 0 - 769 gals  
Designation: Hazardous Material  
Hazard Class: 8  
Shipping Name: Corrosive liquid, flammable, n.o.s. (contains acetic acid, isopropanol), 8, UN 2920, PG II  
DOT Label: Corrosive 8, Flammable Liquid

Package Size: > 770 gals  
Designation: Hazardous Material and Hazardous Substance  
Hazard Class: 8  
Shipping Name: Corrosive liquid, flammable, n.o.s. (contains acetic acid, isopropanol), 8, UN 2920, PG II, RQ  
DOT Label: Corrosive 8, Flammable Liquid

Canadian Shipments

Package Size: 0 - 66 ltrs  
Shipping Name: Corrosive liquid, flammable, n.o.s. (contains acetic acid, isopropanol)

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Label: Corrosive 8  
Classification: 8, 3 Package Group: II PIN: UN 2920

Package Size: > 67 ltrs  
Shipping Name: Corrosive liquid, flammable, n.o.s. (contains acetic acid, isopropanol)  
Label: Corrosive 8  
Classification: 8, 3, 9.2 Package Group: II PIN: UN 2920

### **15. REGULATORY INFORMATION**

Notification/restrictions status:

USA:

All components of this material are on the USA TSCA inventory, or the components are exempt from inventory reporting.

CANADA:

All components of this material are on the Canada DSL, or the components are exempt from inventory reporting.

This product contains no chemicals subject to the USEPA reporting requirements of SARA 313.  
The USEPA CERCLA Reportable Quantity (RQ) for this product as a whole is: 770 gallons (acetic acid).

Canadian WHMIS classification: B2,E ,D2B

### **16. OTHER INFORMATION**

Sections affected by last revision:

None

\*Mark of Schlumberger. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Dowell regarding the accuracy or completeness of the information.