



## SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 089579

### Folia B 9000

Date of the previous version: 2019-11-12

Revision Date: 2020-01-24

Version 1.02

#### 1. IDENTIFICATION

##### Product identifier

Product name Folia B 9000

##### Other means of identification

Product Code(s) 089579

Number UJK  
Substance/mixture Mixture

##### Recommended use of the chemical and restrictions on use

Identified uses Metalworking fluid.

Uses advised against Do not use for any purpose other than the one for which it is intended

##### Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA, Inc.  
1201 Louisiana St. Suite 1800  
Houston, TX 77002  
Phone: 713-483-5000

Contact Point Technical/ HSEQ

E-mail Address ProductSafety@total.com

##### Emergency telephone number

Emergency telephone 1-866-928-0789 (For Emergencies, call CARECHEM 24/7 Domestic)  
1-215-207-0061 (For Emergencies, call CARECHEM 24/7 International)

#### 2. HAZARDS IDENTIFICATION

##### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

##### Label elements

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**Hazard Statements**

None

**Hazards not otherwise classified (HNOC)**

None known

**Other information****Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.

**Environmental properties**

Should not be released into the environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Mixture****Chemical nature**

Aqueous solution.

Chemical Name	CAS-No	Weight %
2,2'-(methylimino)diethanol	105-59-9	5<10

**4. FIRST AID MEASURES****First aid measures for different exposure routes****General advice**

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

**Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse.

**Inhalation**

Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.

**Ingestion**

Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

**Protection of First-aiders**

First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.



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**Most important symptoms/effects, acute and delayed**

<b>Skin contact</b>	Not classified based on available data.
<b>Eye contact</b>	Not classified based on available data.
<b>Inhalation</b>	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Symptoms</b>	No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**

<b>Notes to physician</b>	Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES**

<b><u>Suitable Extinguishing Media</u></b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b><u>Unsuitable Extinguishing Media</u></b>	Do not use a solid water stream as it may scatter and spread fire.
<b><u>Special Hazard</u></b>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. The potential danger appears only after the evaporation of the water in the product, i.e. during fire or after accidental projection of the product on a very hot surface. Phosphorous oxides.

**Explosion Data**

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.
<b><u>Protective Equipment and Precautions for Firefighters</u></b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

<b>General Information</b>	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
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<b>Other information</b>	See Section 12 for additional information.
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**Environmental precautions**

<b>General Information</b>	Do not allow material to contaminate ground water system. Prevent entry into waterways,
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sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up****Methods for containment**

Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or similar non-combustible materials.

**Methods for cleaning up**

Dispose of contents/container in accordance with local regulation. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on safe handling**

For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

**Prevention of fire and explosion**

No specific measures identified.

**Hygiene measures**

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Provide regular cleaning of equipment, work area and clothing. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.\*\*\*

**Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Keep from freezing. Keep at temperatures between 5 and 40 °C. Protect from moisture. Shelf life 8 months.

**Materials to Avoid**

Strong acids. Bases.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure limits**

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Do not contain substance with occupational exposure limits in concentration above regulatory thresholds\*\*\*



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### Exposure controls

#### Engineering Measures

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.\*\*\*

### Individual protection measures, such as personal protective equipment

#### General Information

Protective engineering solutions should be implemented and in use before personal protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product ITSELF. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.\*\*\*

#### Eye/face protection

If splashes are likely to occur, wear: Safety glasses with side-shields.\*\*\*

#### Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.\*\*\*

#### Hand Protection

Impermeable butyl rubber gloves. Neoprene gloves. Fluorinated rubber. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.\*\*\*

#### Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Warning ! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.\*\*\*

#### Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Provide regular cleaning of equipment, work area and clothing. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.\*\*\*

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

Appearance

limpid

Color

clear yellow

Physical State @20°C

liquid

Odor

Characteristic

Odor Threshold

No information available



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<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	9.38	Not applicable	
Melting point/range		Not applicable	
Boiling point/boiling range		No information available	
Flash point		Not applicable	
Evaporation rate		No information available	
Flammability Limits in Air			
upper		No information available	
Lower		No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density	1.023	@ 15 °C	
Density	1023 kg/m <sup>3</sup>	@ 15 °C	
Water solubility		Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic	10 mm <sup>2</sup> /s	@ 40 °C	ASTM D445
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	None under normal processing		
<u>Other information</u>			
Freezing Point		No information available	

**10. STABILITY AND REACTIVITY**

<u>Reactivity</u>	None under normal processing.
<u>Chemical stability</u>	Stable under recommended storage conditions.
<u>Possibility of hazardous reactions</u>	No dangerous reaction known under conditions of normal use.
<u>Conditions to avoid</u>	Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks. To avoid thermal decomposition, do not overheat.
<u>Incompatible materials</u>	Strong acids. Bases.
<u>Hazardous Decomposition Products</u>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Phosphorous oxides.

**11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure



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<b>Principle Routes of Exposure</b>	Inhalation, Ingestion, Eye contact, Skin contact.
<b>Symptoms</b>	No information available.
<b>Skin contact</b>	Not classified based on available data.
<b>Eye contact</b>	Not classified based on available data.
<b>Inhalation</b>	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Acute toxicity - Product Information**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Oral ATEmix (oral)</b>	Not classified based on available data 53592 mg/kg
<b>Dermal ATEmix (dermal)</b>	Not classified based on available data 77994 mg/kg
<b>Inhalation ATEmix (inhalation-vapor)</b>	Not classified based on available data ppm mg/l 1288.5 mg/l

**Acute toxicity - Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,2'-(methylimino)diethanol 105-59-9	LD50 4780 mg/kg (Rat)	LD50 6220 mg/kg (Rabbit)	

<b>Skin corrosion/irritation</b>	Not classified based on available data.
<b>Serious eye damage/eye irritation</b>	Not classified based on available data.
<b>Sensitization</b>	Not classified based on available data.
<b>Carcinogenicity</b>	Not classified based on available data.

<b>Germ Cell Mutagenicity</b>	Not classified based on available data.
<b>Reproductive toxicity</b>	Not classified based on available data.
<b>Target Organ Effects (STOT)</b>	None known.
<b>STOT - single exposure</b>	Not classified based on available data.
<b>STOT - repeated exposure</b>	Not classified based on available data.
<b>Aspiration hazard</b>	Not classified based on available data.

**12. ECOLOGICAL INFORMATION**



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**Ecotoxicity****Acute aquatic toxicity - Product Information**

No information available

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
2,2'-(methylinino)diethanol 105-59-9	EC50(72h) > 100 mg/l (Desmodesmus subspicatus - static)	LC50(96h) 762 mg/l (Fish)	EC50(48h) 233 mg/l (Daphnia magna - static)	

**Chronic aquatic toxicity - Product Information**

No information available

**Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
2,2'-(methylinino)diethanol 105-59-9	NOEC(72h) 6.25 mg/l (Desmodesmus subspicatus - static)			

**Effects on terrestrial organisms** No information available.**Persistence and degradability****General Information** No information available.**Bioaccumulative potential****Product Information** No information available.**logPow** No information available**Component Information** No information available.**Mobility****Soil** Given its physical and chemical characteristics, the product is generally mobile in the ground It may contaminate ground water.**Air** the product may evaporate  
**Water** soluble Forms an emulsion**Other adverse effects**





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**General Information**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment****Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. TRANSPORT INFORMATION****DOT**

Not regulated

**ICAO/IATA**

Not regulated

**IMDG/IMO**

Not regulated

**ADR/RID**

Not regulated

**15. REGULATORY INFORMATION****International Inventories**

All the substances contained in this product are listed or exempted from listing in the following inventories:

China (IECSC)

U.S.A. (TSCA)

Korea (KECL)

Europe (EINECS/ELINCS/NLP)

Canada (DSL/NDL)

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.



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### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## U.S. State Regulations

### California Proposition 65

To the best of our knowledge, this product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm.

### U.S. State Right-to-Know Regulations

No information available

## 16. OTHER INFORMATION

<b>NFPA</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Special hazards</b> -
<b>HMIS</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	<b>Personal protection</b> X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard



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Revision Note: Initial Release

### Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

### Legend

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet