# MATERIAL SAFETY DATA SHEET

	Sectio	on 1 - Chemical Produ	uct and Company Identification		
MSDS Nam	e: 1,1'-Azobi	is(N,N-Dimethylforman	nide), 98%		
Catalog Numbers:		AC185710000, AC185710010, AC185712500			
Synonyms:		Diazenedicarboxamide, Tetramethyl-; N,N,N',N'-Tetramethylazoformamide; Tetramethyldiazenedicarboxamide.			
Company Identification:			Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium		
Company Identification: (USA)			Acros Organics One Reagent Lane Fair Lawn, NJ 07410		
For informa	ation in the US,	call:	800-ACROS-01		
For information in Europe, call:			+32 14 57 52 11		
Emergency Number, Europe:			+32 14 57 52 99		
Emergency	Number US:		201-796-7100		
CHEMTREC	Phone Numbe	ər, US:	800-424-9300		
CHEMTREC	Phone Numbe	er, Europe:	703-527-3887		
	Sec	tion 2 - Composition	, Information on Ingredients		
CAS#: 10465-78-8 Chemical Name: 1,1'-Azobis(N,N-Dimeth			ethylformamide)		
%: 98					
EINECS#:		233-951-7			
Haz	zard Symbols:	None listed			
Ris	k Phrases:	None listed			
		Section 3 - Haz	zards Identification		
		EMERGEN	CY OVERVIEW		
Caution! T	Caution! The toxicological properties of this material have not been fully investigated. May cause eye, skin, and respiratory tract irritation. Target Organs: No data found.				
Potential H	ealth Effects				
-					
	May cause skin irritation.				
•	stion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.				
	<b>Inhalation:</b> May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.				
Chronic:	No information	found.			
		Section 4 - Fi	rst Aid Measures		
Eyes:		with plenty of water fo ds. Get medical aid.	r at least 15 minutes, occasionally lifting the upper and		
Claim			lands of such as for at langet d.F. as in the such its second state		

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

	induce vomiting. If conscious and alert, r water.	onscious person. Get medical rinse mouth and drink 2-4 cupt	
Inhalation:	Remove from exposure and move to free artificial respiration. If breathing is difficu		
Notes to Physician:			
	Section 5 - Fire Fighti	ng Measures	
General Information:	As in any fire, wear a self-contained t MSHA/NIOSH (approved or equivale irritating and highly toxic gases may t combustion.	nt), and full protective gear. D	uring a fire,
Extinguishing Media: Autoignit Temperatu	Use agent most appropriate to exting dioxide, or appropriate foam. tion Not applicable.	<sub>l</sub> uish fire. Use water spray, dry	v chemical, car
Flash Po	int: Not applicable.		
Explosion Lim Low	iits: Not available ver:		
Explosion Lim Upp	nits: Not available per:		
	ing: health: 1; flammability: 0; instability: 0	);	
	Section 6 - Accidental Re	elease Measures	
General Information:	Use proper personal protective equipm	ent as indicated in Section 8.	
Spills/Leaks:	Vacuum or sweep up material and plac spills immediately, observing precaution generating dusty conditions. Provide ve	ns in the Protective Equipmen	
	Section 7 - Handling	and Storage	
with eyes Storage: Store	Section 7 - Handling th thoroughly after handling. Remove con- adequate ventilation. Minimize dust gene s, skin, and clothing. Keep container tightl e in a tightly closed container. Store in a c mpatible substances. Deep freeze (below	taminated clothing and wash b eration and accumulation. Avoi ly closed. Avoid ingestion and cool, dry, well-ventilated area a	d contact with inhalation.
with eyes Storage: Store	th thoroughly after handling. Remove contained adequate ventilation. Minimize dust genes, skin, and clothing. Keep container tightle in a tightly closed container. Store in a	taminated clothing and wash be eration and accumulation. Avoid ly closed. Avoid ingestion and cool, dry, well-ventilated area a 2 -20°C).	d contact with inhalation.
with eyes Storage: Store incor Engineering Co Facilit safety Exposure Limit	th thoroughly after handling. Remove conta adequate ventilation. Minimize dust gene s, skin, and clothing. Keep container tightl e in a tightly closed container. Store in a c mpatible substances. Deep freeze (below Section 8 - Exposure Controls ontrols: ties storing or utilizing this material should v shower. Use adequate ventilation to kee ts+	taminated clothing and wash be eration and accumulation. Avoi ly closed. Avoid ingestion and cool, dry, well-ventilated area a <i>i</i> -20°C). <b>5, Personal Protection</b> d be equipped with an eyewash ep airborne concentrations low	id contact with inhalation. away from h facility and a
with eyes Storage: Store incor Engineering Co Facilit safety Exposure Limit +	the thoroughly after handling. Remove contained adequate ventilation. Minimize dust gene s, skin, and clothing. Keep container tightle in a tightly closed container. Store in a compatible substances. Deep freeze (below Section 8 - Exposure Controls controls: ties storing or utilizing this material should by shower. Use adequate ventilation to keet ts +	taminated clothing and wash beration and accumulation. Avoid y closed. Avoid ingestion and cool, dry, well-ventilated area a v -20°C).	d contact with inhalation. away from h facility and a
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with eyes Storage: Store incor Engineering Co Facilit safety Exposure Limit +	the thoroughly after handling. Remove contained adequate ventilation. Minimize dust gene s, skin, and clothing. Keep container tightle e in a tightly closed container. Store in a compatible substances. Deep freeze (below Section 8 - Exposure Controls ontrols: ties storing or utilizing this material should o shower. Use adequate ventilation to kee ts+	taminated clothing and wash be eration and accumulation. Avoid ly closed. Avoid ingestion and cool, dry, well-ventilated area a r -20°C). <b>5. Personal Protection</b> d be equipped with an eyewash ep airborne concentrations low 	id contact with inhalation. away from h facility and a  OSHA     none 

Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace

conditions warrant respirator use.

#### **Section 9 - Physical and Chemical Properties**

Physical State: Solid Color: bright yellow Odor: none reported pH: Not available Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available Viscosity: Not available Boiling Point: Not available Freezing/Melting Point: 113.00 - 115.00 deg C Decomposition Temperature: Not available Solubility in water: Not available Specific Gravity/Density: Molecular Formula: C6H12N4O2 Molecular Weight: 172.19

		Section 10 - Stability and Reactivity
Chemical Stability:		Stable under normal temperatures and pressures.
Conditions to Avoid:		Incompatible materials, dust generation, excess heat, strong oxidants.
Incompatibilities with Other Materials		Not available
Hazardous Decomposition Products		Nitrogen oxides, carbon monoxide, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization		Has not been reported.
Section 11 - Toxicological Information		
RTECS#:	CAS# 10465	-78-8: LQ1041000
LD50/LC50:	RTECS: Not available.	
Carcinogenicity:	1,1'-Azobis(N,N-Dimethylformamide) - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.	
Epidemiology:	No information found	
Teratogenicity:	No information found	
Reproductive:	No information found	
Neurotoxicity:	No information found	
Mutagenicity:	No information found	
Other: Not available		
Section 12 - Ecological Information		

Not available

**Section 13 - Disposal Considerations** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

# Section 14 - Transport Information

### US DOT

Shipping Name: Not regulated as a hazardous material Hazard Class: UN Number: Packing Group: Canada TDG Shipping Name: Not available Hazard Class: UN Number: Packing Group:

## Section 15 - Regulatory Information

#### **US Federal**

TSCA

CAS# 10465-78-8 is not listed on the TSCA Inventory. It is for research and development use only.

Health & Safety Reporting List	None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules Section 12b	None of the chemicals in this product are under a Chemical Test Rule. None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule	None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs	None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances	None of the chemicals in this product have a TPQ.
Section 313	No chemicals are reportable under Section 313.
Clean Air Act:	This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.
Clean Water Act:	None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA:	
STATE	1,1'-Azobis(N,N-Dimethylformamide) is not present on state lists from CA, PA, MN, MA, FL, or NJ.
California Prop 65	
California No Significant Risk Level:	None of the chemicals in this product are listed.

**European/International Regulations** 

European Labeling in Accordance with EC Directives

Hazard Symbols:Not available Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 28A After contact with skin, wash immediately with plenty of water.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 10465-78-8: Not available

## Canada

Canadian WHMIS Classifications: Not available This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 10465-78-8 is not listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

#### MSDS Creation Date: 9/02/1997 Revision #5 Date 10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.