

# SAFETY DATA SHEET

Issue Date 14-Mar-2019

Version 3.2

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	1. IDENTIFICATION
Product identifier Product Name	Amino Acid F Dilution Solvent
<u>Other means of identification</u> Product Code(s)	2353011
Safety data sheet number	M00512
Recommended use of the chemic Recommended Use	cal and restrictions on use Laboratory Use. Diluent for Amino Acid F Powder.
Uses advised against Restrictions on use	Consumer use. For Laboratory Use Only.

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

#### Manufacturer Address Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

#### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

### 2. HAZARDS IDENTIFICATION

#### **Classification**

#### **Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Signal word Warning



**Hazard statements** 

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H315 - Causes skin irritation H319 - Causes serious eye irritation

#### Precautionary statements

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

Other Hazards Known

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS** 

Substance Not applicable

<u>Mixture</u>

Chemical Family Chemical nature Mixture. Aqueous alkaline solution.

Chemical name	CAS No.	Percent Range	HMRIC #
2-Amino-2-methyl-1-propanol	124-68-5	5 - 10%	-

### 4. FIRST AID MEASURES

Description	of first aid	measures
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General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.	
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.	
Self-protection of the first aider	Avoid contact with skin, eyes or clothing.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Burning sensation.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

### **5. FIRE-FIGHTING MEASURES**

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Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.			
Specific hazards arising from the chemical	No information available.			
Hazardous combustion products	Nitrogen oxides. Carbon monoxide, Carbon dioxide.			
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.			
	6. ACCIDENTAL RELEASE MEASURES			
U.S. Notice	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.			
Personal precautions, protective equipment and emergency procedures				
Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.			
Other Information	Refer to protective measures listed in Sections 7 and 8.			
Environmental precautions_				

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
Reference to other sections	See section 8 for more information. See section 13 for more information.		

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Flammability class	Class IIIB

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	
Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
Appropriate engineering controls Engineering Controls	Showers Eyewash stations Ventilation systems.
	ch as personal protective equipment
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hand Protection	Wear suitable gloves. Impervious gloves.
Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
General Hygiene Considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.
Thermal hazards	None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution Odorless	Liquid		Color Odor threshold	colorless Not applicable	
Property_			Values		Remarks • Met	hod
Molecular weight	t		Not applicable			
рН			12.0			
Melting point/free	ezing point		-2 °C / 28.4	°F		
Boiling point / bo	oiling range		99 °C / 210.2	°F		
Evaporation rate			0.6 (water = 1)			
Vapor pressure			23.252 mm Hg	/ 3.1 kPa at 25 °	C / 77 °F	
Vapor density (ai	r = 1)		0.62 (air = 1)			
Specific gravity (	water = 1 / air = 1)		0.9977			
Partition Coeffici	ent (n-octanol/wate	er)	No data availal	ole		
Soil Organic Car Coefficient	bon-Water Partition	า	No data availal	ble		
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Autoignition temperature	No data available

Decomposition temperature	No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available

#### Solubility(ies)

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature	
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F	

#### **Other Information**

**Metal Corrosivity** 

#### Steel Corrosion Rate Aluminum Corrosion Rate

No data available 0.79 mm/yr / 0.03 in/yr

Volatile Organic Compounds (VOC) Content 10%

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
2-Amino-2-methyl-1-propanol	124-68-5	No data available	-

**Explosive properties** 

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point Method	> 94 °C / 201.2 °F CC (closed cup)
Flammability Limit in Air Upper flammability limit Lower flammability limit	No data available No data available
Oxidizing properties	No data available.
Bulk density	Not applicable

### **10. STABILITY AND REACTIVITY**

#### Reactivity Not applicable.

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<u>Chemical stability</u> Stable under normal conditions.

#### **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Possibility of Hazardous Reactions

None under normal processing.

#### Hazardous polymerization

Hazardous polymerization does not occur.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

#### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### **11. TOXICOLOGICAL INFORMATION**

#### Information on Likely Routes of Exposure

#### **Product Information**

Inhalation	May cause irritation of respiratory tract.
Eye contact	Irritating to eyes. Causes serious eye irritation.
Skin contact	Causes skin irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms	Redness. May cause redness and tearing of the eyes.

#### Acute toxicity

Based on available data, the classification criteria are not met

#### **Product Acute Toxicity Data**

No data available.

#### **Ingredient Acute Toxicity Data**

Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
2-Amino-2-methyl-1-p ropanol (5 - 10%) CAS#: 124-68-5	Rat LD₅₀	2900 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)

#### Unknown Acute Toxicity

6E-06% of the mixture consists of ingredient(s) of unknown toxicity.

#### **Acute Toxicity Estimations (ATE)**

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	32,608.30 mg/kg
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

#### Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

#### **Product Skin Corrosion/Irritation Data**

Test data reported below.

Test method	Species	Reported dose	Exposure	<b>Results</b>	Key literature references and
Patch test	Human	10% Solution	time	Skin irritant	sources for data
			None		OSHA (Occupational Safety and
			reported		Health Administration of the US
			-		Department of Labor)

#### Ingredient Skin Corrosion/Irritation Data

No data available.

#### Serious eye damage/irritation

Classification based on data available for ingredients. Irritating to eyes.

#### Product Serious Eye Damage/Eye Irritation Data

No data available.

#### Ingredient Eye Damage/Eye Irritation Data

No data available.

<u>Respiratory or skin sensitization</u> Based on available data, the classification criteria are not met.

#### **Product Sensitization Data**

No data available.

#### Ingredient Sensitization Data

No data available.

#### Skin Sensitization Exposure Route

Chemical name	Test method	Species	Results	Key literature references and sources for data
2-Amino-2-methyl-1-p ropanol (5 - 10%) CAS#: 124-68-5	Buehler Test	Guinea pig	Not confirmed to be a skin sensitizer	IUCLID (The International Uniform Chemical Information Database)

#### STOT - single exposure

Based on available data, the classification criteria are not met.

#### **Product Specific Target Organ Toxicity Single Exposure Data** No data available.

#### **Ingredient Specific Target Organ Toxicity Single Exposure Data** No data available.

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#### STOT - repeated exposure

Based on available data, the classification criteria are not met.

Product Specific Target Organ Toxicity Repeat Dose Data No data available.

### Ingredient Specific Target Organ Toxicity Repeat Exposure Data

No data available.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Product Carcinogenicity Data

No data available.

#### Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
2-Amino-2-methyl-1-propa	124-68-5	-	-	-	-
nol					

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Product Germ Cell Mutagenicity invitro Data

No data available.

#### Ingredient Germ Cell Mutagenicity invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
2-Amino-2-methyl-1-p ropanol (5 - 10%) CAS#: 124-68-5	Mutation in microorganisms	Salmonella typhimurium	5 mg/plate	None reported	Negative test result for mutagenicity	ECHA (The European Chemicals Agency)

#### Product Germ Cell Mutagenicity invivo Data

No data available.

#### Ingredient Germ Cell Mutagenicity invivo Data

No data available.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### **Product Reproductive Toxicity Data**

No data available.

#### Ingredient Reproductive Toxicity Data

Test data reported below.

#### **Dermal Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
2-Amino-2-methyl-1-p ropanol (5 - 10%) CAS#: 124-68-5	Rat NOAEL	300 mg/kg	15 days	No reproductive or developmental toxic effects observed	ECHA (The European Chemicals Agency)

#### Aspiration hazard

Based on available data, the classification criteria are not met.

### **12. ECOLOGICAL INFORMATION** Ecotoxicity Based on available data, the classification criteria are not met. Unknown aquatic toxicity 1E-05% of the mixture consists of components(s) of unknown hazards to the aquatic environment. **Product Ecological Data Aquatic Acute Toxicity** No data available. **Aquatic Chronic Toxicity** No data available. Ingredient Ecological Data

#### Aquatic Acute Toxicity

Test data reported below.

#### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
2-Amino-2-methyl-1-p ropanol (5 - 10%) CAS#: 124-68-5	48 Hours	Daphina magna	EC <sub>50</sub>	65 mg/L	ECHA (The European Chemicals Agency)

#### **Aquatic Chronic Toxicity** No data available.

#### Persistence and degradability

Product Biodegradability I	Data
No data available.	

**Bioaccumulation** 

#### **Product Bioaccumulation Data** No data available.

#### Partition Coefficient (n-octanol/water)

### Mobility

Soil Organic Carbon-Water Partition Coefficient

No data available

No data available

### Other adverse effects

No information available.

Waste treatment methods				
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.			
Contaminated packaging	Do not reuse empty containers.			
US EPA Waste Number	Not applicable			
Special instructions for disposal	If permitted by regulation. Dilute to 3 to 5 times the volume with cold water. Adjust to a pH between 6 and 9 with an acid, such as sulfuric or citric. Open cold water tap completely, slowly pour the reacted material to the drain. Dispose of material in an E.P.A. approved hazardous waste facility.			
	14. TRANSPORT INFORMATION			
U.S. DOT	Not regulated			
TDG	Not regulated			
<u>IATA</u>	Not regulated			

**13. DISPOSAL CONSIDERATIONS** 

IMDG Not regulated

#### Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies. If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

### **15. REGULATORY INFORMATION**

National Inventories	
TSCA	Complies
DSL/NDSL	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories	
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIOC	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

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ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances TCSI - Taiwan Chemical Substances Inventory AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

#### **US Federal Regulations**

#### <u>SARA 313</u>

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

### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (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)

#### **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

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

**IMERC:** Not applicable

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

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
2-Amino-2-methyl-1-propanol	Х	X	Х
124-68-5			

#### U.S. EPA Label Information

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

#### Special Comments None

#### Additional information

Global Automotive Declarable Substance List (GADSL) Not applicable <u>NFPA and HMIS Classifications</u>

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NFPA	Health h	nazards - 2	Flammability - 1	Instability - 0	Physical and chemical properties -			
HMIS	Health h	nazards - 2	Flammability - 1	Physical hazards - 0	Personal protection - X			
Key or legend to	Key or legend to abbreviations and acronyms used in the safety data sheet							
NIOSH IDLH ACGIH NDF	ACGIH ACGIH (American Conference of Governmental Industrial Hygienists)							
Legend - Sectio	n 8: EXPOSURE CO	ONTROLS/PER	RSONAL PROTECTION					
TWA	TWA (time-weight	ed average)	STEL	STEL (Short Term	Exposure Limit)			
MAC	Maximum Allowab	le Concentratio	on Ceiling	Ceiling Limit Value				
X	Listed		Vacated	binding levels of co listed in the final O for reference purpo some reference sta	no official status. The only intaminants are those SHA PEL. These lists are uses only. Please note that ite regulations of these e limits in their state			
SKN* RSP+ C M	Skin designation Respiratory sensit Carcinogen mutagen	ization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxica				
Prepared By		Hach Produc	t Compliance Department					
Issue Date		14-Mar-2019						
<b>Revision Date</b>		14-Mar-2019						
<b>Revision Note</b>		None						
<u>Disclaimer</u>								

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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End of Safety Data Sheet