

# Material Safety Data Sheet

according to EC-Regulation No. 1272/2008

updated: 03/2019

Version: 1.0

## Section I - Product and Company Information

Product Name	Arginase I (ARG1) Inhibitor Screening Kit
Product Number	PK-CA577-K567
Product Classification	Cell Biology Reagents
Company and Contact Information	PromoCell GmbH Sickingenstrasse 63/65 69126 Heidelberg Germany Phone: +49 6221 – 649 34 0 E-mail: info@promokine.info

## Section II – Hazard Information

Component	Description	Volume	Safety Information
Assay Buffer	Liquid	25 ml	No hazards
ARG1 Substrate	--	1 vial	No hazards
ARG1 Probe Mix A	Contains H2SO4	12 ml	See below
ARG1 Probe Mix B	Contains Boric acid, H2SO4	12 ml	See below
Human ARG1	--	1 vial	No hazards
ABH (in DMSO)	In DMSO	20 µl	See below

### Sulfuric Acid:

#### Emergency Overview

**OSHA Hazards:** Corrosive: Metals category 1, skin category 1A, eye damage category 1

**Target Organs:** skin, eyes

#### GHS Classification:

Corrosive liquid (Category 1)

Skin irritation (Category 1A)

Eye irritation (Category 1)

Specific target organ toxicity – single exposure (Category 1)

#### GHS Label elements, including precautionary statements

##### Pictogram:



##### Signal word:

Danger

##### Hazard statement(s):

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

H335: May cause respiratory irritation.

**Precautionary statement(s):** P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### HMIS Classification

Health hazard: 3

Chronic health hazard: \*

Flammability: 0

Physical hazards: 2

#### NFPA Rating

Health Hazard: 3

Fire: 0

Reactivity Hazard: 0

### Potential Health Effects

**Inhalation:** harmful if inhaled. Causes respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. Causes skin irritation.  
**Eyes:** Causes severe eye irritation.  
**Ingestion:** harmful if swallowed.

### Boric acid:

#### Emergency Overview

**OSHA Hazards:** Target organ effect, Teratogen, Reproductive hazard

**Target Organs:** Testes

**GHS Classification:** Acute toxicity, Oral (Category 5)  
Reproductive toxicity (Category 1B)

#### GHS Label elements, including precautionary statements

**Pictogram:**



**Signal word:** Warning

**Hazard statement(s):** H303: May be harmful if swallowed.  
H361: Suspected of damaging fertility or the unborn child.

**Precautionary statement(s):** P281: Use personal protective equipment as required.  
P308 + P313: IF exposed or concerned: Get medical advice/ attention.

#### HMIS Classification

**Health hazard:** 2  
**Chronic health hazard:** \*  
**Flammability:** 0  
**Physical hazards:** 0

#### NFPA Rating

**Health hazard:** 2  
**Fire:** 0  
**Reactivity Hazard:** 0

### Potential Health Effects

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes:** May cause eye irritation.  
**Ingestion:** May be harmful if swallowed.

### DMSO:

#### Emergency Overview

**OSHA Hazards:** Combustible liquid, Target organ effect

**Target Organs:** Eyes, Skin

**GHS Classification:** Flammable liquids (Category 4)

#### GHS Label elements, including precautionary statements

**Pictogram:** none

**Signal word:** Warning

**Hazard statement(s):** H227 Combustible liquid

**Precautionary statement(s):** none

#### HMIS Classification

**Health hazard:** 0  
**Chronic Health Hazard:** \*  
**Flammability:** 2  
**Physical hazards:** 0

#### NFPA Rating

**Health hazard:** 0  
**Fire:** 2  
**Reactivity Hazard:** 0

### Potential Health Effects

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes:** May cause eye irritation.  
**Ingestion:** May be harmful if swallowed.

**Aggravated Medical Condition:** Avoid contact w/DMSO solutions containing toxic materials or materials with unknown toxicological properties. DMSO is readily absorbed through skin and may carry such materials into the body.

### Section III – Composition/Information on Ingredients

Product Name/Chemical Name	CAS-No.	EC-No.	MW	Chemical Formula
Boric acid	10043-35-3	233-139-2	61,83	H3BO3
Sulfuric Acid	7664-93-9	231-639-5	89,08	H2SO4
DMSO	67-68-5	200-664-3	78,13	C2H6OS

### Section IV – First Aid Measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### Section V – Fire-Fighting Measures

**DMSO:**

**Suitable extinguishing media:** For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products:** Hazardous combustion products formed under fire conditions – no data available.

**Further information:** Use water spray to cool unopened containers.

### Section VI – Accidental Release Measures

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods for cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### Section VII – Handling and Storage

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: -20 °C.

### Section VIII – Exposure Controls/Personal Protection

**DMSO:**

Components	CAS No.	Value	Control Parameters	Basis
Dimethyl sulfoxide	67-68-5	TWA	250 ppm	USA. Workplace Environmental Exposure Levels (WEEL)

**Sulfuric acid:**

Components	CAS No.	Value	Control Parameters	Basis
Sulfuric acid	7664-93-9	TWA	0.2 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1 mg/m <sup>3</sup>	USA. OSHA: TABLE Z-1 Limits for Air Contaminants – 1910.1000
		TWA	1 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA): Table Z-1 Limits for Air Contaminants

**Boric acid:**

Components	CAS No.	Value	Control Parameters	Basis
Boric acid	10043-35-3	STEL	6 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
Remarks:	Upper respiratory tract irritation. Not classifiable as a human carcinogen varies.			
		TWA	2 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Not classifiable as a human carcinogen.			
		STEL	6 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Not classifiable as a human carcinogen.			
		TWA	2 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Upper respiratory tract irritation. Not classifiable as a human carcinogen varies.			
		TWA	2 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Upper respiratory tract irritation. Not classifiable as a human carcinogen varies.			
		STEL	6 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Upper respiratory tract irritation. Not classifiable as a human carcinogen varies.			

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Section IX – Physical and Chemical Properties**

Property	Boric acid	Sulfuric acid	DMSO
Appearance:	Solid	Clear liquid	Clear liquid
pH:	5.1 at 1.8 g/l	No data available	No data available
Water Solubility:	Soluble	Completely miscible	Completely miscible
Other Solubility:	No data available	No data available	No data available
Boiling Point (°C):	300 °C (572 °F)	337 °C (639 °F)	189 °C (372 °F)
Vapor Density:	160 °C (320 °F)	3.39 - (Air = 1.0)	16-19 °C (61-66 °F)
Flash Point (°C):	No data available	No data available	87 °C (189 °F)
Ignition Temperature (°C):	No data available	No data available	301 °C (574 °F)
Density:	1.44 g/cm <sup>3</sup>	1.80-1.84 g/ml	1.1 g/ml

**Section X – Stability and Reactivity**

Property	Sulfuric acid	Boric acid	DMSO
Chemical stability:	Stable under recommended storage conditions		
Conditions to avoid:	No data available	Exposure to moisture	Heat, Flames, Sparks
Materials to avoid:	Bases, halides, organic materials, carbides, fulminates, nitrates, picrates, cyanides, chlorates, alkali halides, zinc salts, permanganates, hydrogen peroxide, azides, perchlorates, nitromethane, phosphorus. Reacts violently with: cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorus (III) oxides, powdered metals	Potassium, acid anhydrides	Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents
Hazardous decomposition products:	Sodium oxides	Borane/boron oxides	Carbon oxides, sulfur oxides

## Section XI – Toxicological Information

### **Sulfuric acid:**

**Acute toxicity:** LD50 Oral – rat – 2,140 mg/kg LC50 Inhalation – rat – 2 h – 510 mg/m<sup>3</sup>

**Skin corrosion/irritation:** Skin – rabbit – extremely corrosive and destructive to tissue

**Serious eye damage/eye irritation:** Eyes – rabbit – severe eye irritation

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

**Carcinogenicity:** The International Agency for Research on Cancer (IARC) has determined that occupational exposure to strong-inorganic- acid mists containing sulfuric acid is carcinogenic to humans (Group 1).

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** no data available

**Teratogenicity:** no data available

**Aspiration hazard:** no data available

### **Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Skin:** May be harmful if absorbed through skin. Causes skin burns.

**Eyes:** Causes eye burns. Causes severe eye burns.

**Ingestion:** May be harmful if swallowed.

**Signs and Symptoms of Exposure:** Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, pulmonary edema. Effects may be delayed. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects:** no data available

**Additional information:** RTECS: WS5600000

### **Boric acid:**

**Acute toxicity:** LD50 Oral – rat – 2,660 mg/kg

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

**Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** Presumed human reproductive toxicant.

**Teratogenicity:** Fetotoxicity. Presumed human reproductive toxicant.

**Specific target organ toxicity – single exposure (GHS):** no data available

**Specific target organ toxicity – repeated exposure (GHS):** no data available

### **Potential Health Effects**

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

**Signs and Symptoms of Exposure:** Toxicity reported for borates in humans: ingestion or absorption may cause nausea, vomiting, diarrhea, abdominal cramps, and erythematous lesions on the skin and mucous membranes. Other symptoms include: circulatory collapse, tachycardia, cyanosis, delirium, convulsions, and coma. Death has been reported to occur in infants from less than 5 grams and in adults from 5 to 20 grams.

**Additional information:** RTECS: ED4550000

**DMSO:**

**Acute toxicity:** LD50 Oral – rat – 14,500 mg/kg LC50 Inhalation – rat – 4 h – 40250 ppm

LD50 Dermal – rabbit – >5,000 mg/kg

**Skin corrosion/irritation:** Skin – rabbit – no skin irritation – 4h

**Serious eye damage/eye irritation:** Eyes – rabbit – mild eye irritation

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** Genotoxicity in vitro – mouse – lymphocyte: Cytogenetic analysis Genotoxicity in vitro – mouse – lymphocyte:

Mutation in mammalian somatic cells Genotoxicity in vivo – rat – Intraperitoneal: Cytogenetic analysis

Genotoxicity in vivo – mouse – Intraperitoneal: DNA damage

**Carcinogenicity:** Carcinogenicity – rat – Oral -> Tumorigenic: equivocal tumorigenic agent by RTECS criteria. Skin and appendages: other: tumors.

Carcinogenicity – mouse – Oral -> Tumorigenic: equivocal tumorigenic agent by RTECS criteria. Leukemia skin and appendages: other: tumors.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** Reproductive toxicity – rat – Intraperitoneal -> Effects on fertility: abortion

Reproductive toxicity – rat – Intraperitoneal -> Effects on fertility: post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants)

Reproductive toxicity – rat – Subcutaneous -> Effects on fertility: post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants). Effects on fertility: litter size (e.g. # fetuses per litter; measured before birth)

Reproductive toxicity – mouse – Oral -> Effects on fertility: post-implantation mortality (e.g. reduction in number of implants per female; total number of implants per corpora lutea). Effects on embryo/fetus: Fetotoxicity (except death, e.g. stunted fetus). Specific developmental abnormalities: musculoskeletal system.

**Teratogenicity:** Developmental toxicity – mouse – Intraperitoneal: Effects on embryo/fetus: Fetotoxicity (except death, e.g. stunted fetus).

Specific developmental abnormalities: musculoskeletal system

**Specific target organ toxicity – single exposure (GHS):** no data available

**Specific target organ toxicity – repeated exposure (GHS):** no data available

**Aspiration hazard:** no data available

**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

**Aggravated Medical Condition:** Avoid contact w/DMSO solutions containing toxic materials or materials with unknown toxicological properties. DMSO is readily absorbed through skin and may carry such materials into the body.

**Signs and Symptoms of Exposure:** Effects due to ingestion may include: nausea, fatigue, and/or headache.

**Additional information:** RTECS: PV6210000

**Section XII – Ecological Information****Sulfuric acid:**

**Persistence and degradability:** no data available

**Toxicity: Toxicity to fish:** LC50 – Gambusia affinis (Mosquito fish) – 42 mg/l – 96 h

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

**Boric acid:**

**Persistence and degradability:** no data available

**Toxicity: Toxicity to fish:** LC50 – Ptychocheilus lucius – 279 mg/l – 96 h LC50 – Lepomis macrochirus (Bluegill) – >1,021 mg/l – 96 h

**Toxicity to daphnia and other aquatic invertebrates:** LC50 – Daphnia magna (Water flea) – 53.2 mg/l – 21 d EC50 – Daphnia magna (Water flea) – 133 mg/l – 48 h

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

**Other adverse effects:** no data available

**DMSO:**

**Elimination information (persistence and degradability):** no data available

**Ecotoxicity effects:** Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 34,000 mg/l - 96 h LC50 - Oncorhynchus mykiss (rainbow trout) - 35,000 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia pulex (Water flea) - 27,500 mg/l

Toxicity to algae: EC50 - Lepomis macrochirus (Bluegill) - > 400,000 mg/l - 96 h

**Further information on ecology:** no data available

### Section XIII – Disposal Information

**Product:** Observe all federal, state, and local environmental regulations.

**Contaminated packaging:** Dispose of as unused product.

### Section XIV – Transport Information

**Sulfuric acid:**

**DOT (US):** UN number: 2796 Class: 8 Packing group: II; Proper shipping name: Sulfuric acid; Reportable Quantity (RQ): 2000 lbs; Poison Inhalation Hazard: No

**IMDG:** UN number: 2796 Class: 8 Packing group: II EMS-No: F-A, S-B; Proper shipping name: SULPHURIC ACID

**IATA:** UN number: 2796 Class: 8 Packing group: II; Proper shipping name: Sulphuric acid

**Boric acid:**

**DOT (US):** Not dangerous goods.

**IMDG:** Not dangerous goods.

**IATA:** Not dangerous goods

**DMSO:**

**DOT (US):** UN-Number: 1993 Class: CBL Packing group: III; Proper shipping name: Combustible liquid, n.o.s. (Dimethyl sulfoxide); Marine pollutant: No; Poison Inhalation Hazard: No

**IMDG:** Not dangerous goods.

**IATA:** Not dangerous goods.

### Section XV – Regulatory Information

**OSHA Hazards:** Sulfuric acid: Target organ effect, Corrosive

Boric acid: Target organ effect, Teratogen, Reproductive hazard

**SARA 302 Components:** SARA 302: The following components are subject to reporting levels established by SARA Title III, Section 302:

Sulfuric acid CAS-No.7664-93-9 Revision Date 2007-07-01

**SARA 313 Components:** The following components are subject to reporting levels established by SARA Title III, Section 313:

Sulfuric acid CAS-No. 7664-93-9 Revision Date 2007-07-01

**SARA 311/312 Hazards** Boric acid: Chronic Health Hazard

Sulfuric acid: Acute Health Hazard, Chronic Health Hazard

Dimethyl sulfoxide: Fire Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components** Sulfuric acid CAS-No.7664-93-9 Revision Date 2007-07-01

**Pennsylvania Right To Know Components:** Sulfuric acid CAS-No.7664-93-9 Revision Date 2007-07-01

Boric acid, CAS-No. 10043-35-3; Revision Date: 2009-07-17

Dimethyl sulfoxide CAS-No. 67-68-5; Revision Date: 2007-03-01

**New Jersey Right To Know Components:** Sulfuric acid CAS-No.7664-93-9 Revision Date 2007-07-01

Boric acid, CAS-No. 10043-35-3; Revision Date: 2009-07-17

Dimethyl sulfoxide CAS-No. 67-68-5; Revision Date: 2007-03-01

**California Prop. 65 Components:** WARNING! This product contains a chemical known to the State of California to cause cancer.

Sulfuric acid CAS-No.7664-93-9 Revision Date 2007-09-28

## **EU Regulations:**

<b>Component</b>	<b>Risk Phrases</b>	<b>Safety Phrases</b>
Sulfuric acid	R35	S26, S30, S45
Boric acid	R60, R61	S45, S53
DMSO	R10, R36/37/38	S24/25, S36/37/39, S45

## **Section XVI - Disclaimer**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PromoCell shall not be held liable for any damage resulting from handling or from contact with the above product.

FOR IN VITRO RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC PROCEDURES.

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