# SAFETY DATA SHEET



Revision Date 06-Nov-2010

**Revision Number** 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	
Product Description:	
Cat No.	
Synonyms	

(S)-(+)-2-Methylbutyric acid 224190000; 224190010; 224190050 None.

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo Information available

 Details of the supplier of the safety data sheet

 Company

 Acros Organics BVBA

 Janssen Pharmaceuticalaan 3a

 2440 Geel, Belgium

 E-mail address
 begel.sdsdesk@thermofisher.com

 Emergency Telephone Number

 For information 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 Number, US: 800-424-9300 CHEMTREC Phone Number, Europe: 703-527-3887

# 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Skin Corrosion / irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16Symbol(s)C - CorrosiveR -phrase(s)R34 - Causes burnsRisk Combination PhrasesR21/22 - Harmful in contact with skin and if swallowed

### ACR22419 - (S)-(+)-2-Methylbutyric acid



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#### Signal Word

Danger

### Hazard Statements

H302 - Harmful if swallowed H318 - Causes serious eye damage

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

### Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P280 - Wear 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
P310 - Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

### Other Hazards

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS
(S)-(+)-2-Methylbutyric acid		98		C; R34	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312)

### For the full text of the R phrases mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

Description of first aid measures Eye Contact	Immediate medical attention is required Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes Immediate medical attention is required

Ingestion	Do not induce vomiting Call a physician immediately
Inhalation	Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Immediate medical attention is required
Notes to Physician	Treat symptomatically

# **5. FIRE-FIGHTING MEASURES**

### Extinguishing media

Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>) Dry chemical chemical foam

#### Extinguishing media which must not be used for safety reasons No information available.

#### Special hazards arising from the substance or mixture

Combustible material Flammable

#### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so

#### Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Keep in suitable and closed containers for disposal Do not let this chemical enter the environment

## 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Do not breathe dust Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing Do not ingest Use only in area provided with appropriate exhaust ventilation

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place Keep container tightly closed Keep away from heat and sources of ignition Corrosives area Keep refrigerated

### Specific End Uses

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION					
Derived No Effect Level (DNEL)	No information available.				
Predicted No Effect Concentration	No information available.				
(PNEC)					
Exposure controls					
Engineering Measures	Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and				
	safety showers are close to the workstation location				
Personal protective equipment					
Eye Protection	Goggles				
Hand Protection	Protective gloves				
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure				
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN				
	149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits				
	are exceeded or if irritation or other symptoms are experienced				
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice				
Environmental exposure controls	No information available.				

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance odor pH Vapor Pressure Vapor Density Boiling Point/Range Melting Point/Range Flash Point Specific Gravity Molecular Formula Molecular Weight Liquid Colorless pungent No information available. No information available. 3.52 78°C / 172.4°F@ 15 mmHg No information available. 73°C / 163.4°F 0.938 C5 H10 O2 102.13

# **10. STABILITY AND REACTIVITY**

Reactivity Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reactions Hazardous Polymerization Hazardous Reactions .

No information available. No information available.

Conditions to Avoid Incompatible products.

#### Incompatible Materials Bases, Reducing agents. Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

# **11. TOXICOLOGICAL INFORMATION**

Information on Toxicological Effects

# **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity	
Product Information	No acute toxicity information is available for this product
Component Information	
Chronic Toxicity	
Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available.
Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Target Organs	No information available.
Other Adverse Effects	The toxicological properties have not been fully investigated.
Endocrine Disruptor Information	None known

# **12. ECOLOGICAL INFORMATION**

Toxicity Ecotoxicity effects

Do not empty into drains

 Persistence and degradability

 No information available

 Bioaccumulative potential

 No information available.

 Mobility in soil

 No information available.

 Results of PBT and vPvB assessment

 Other adverse effects

 No information available

### **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods Waste from Residues / Unused Products Contaminated Packaging

Dispose of in accordance with local regulations

Empty containers should be taken for local recycling, recovery or waste disposal

### **14. TRANSPORT INFORMATION**

#### IMDG/IMO

UN-No
Hazard Class
Packing Group
Proper Shipping Name

3265 8 II CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

# **14. TRANSPORT INFORMATION**

#### ADR

	UN-No Hazard Class Packing Group Proper Shipping Name	3265 8 II CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
<u>IATA</u>		2005

UN-No Hazard Class Packing Group Proper Shipping Name

3265 8 11

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.\*

### **15. REGULATORY INFORMATION**

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
(S)-(+)-2-Methylbutyric acid	-	-		-	-	-	Х	-	-	-	-

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory EINECS/ELINCS - European Inventory Lists DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List PICCS - Philippines Inventory of Chemicals and Chemical Substances ENCS - Japan Existing and New Chemical Substances CHINA - China Inventory of Existing Chemical Substances AICS - Inventory of Chemical Substances KECL - Existing and Evaluated Chemical Substances

### **Chemical Safety Assessment**

### **16. OTHER INFORMATION**

Text of R phrases mentioned in Section 2-3 R34 - Causes burns R21/22 - Harmful in contact with skin and if swallowed

 Revision Date
 06-Nov-2010

 Revision Summary
 Not applicable

 This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

# **16. OTHER INFORMATION**

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

### End of Safety Data Sheet