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CAS-No.

D2B

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Material Safety Data Sheet

Concentration

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Version 3.0 Revision Date 07/29/2008 Print Date 07/30/2009

Product name

1. PRODUCT AND COMPANY IDENTIFICATION

(±)-α-Hydroxyisovaleric acid

Product Number 55450 Brand Fluka

Company Sigma-Aldrich Canada, Ltd 2149 Winston Park Drive OAKVILLE ON L6H 6J8

CANADA : +1 9058299500 : +1 9058299292 Emergency Phone # : 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

: (±)-2-Hydroxy-3-methylbutyric acid Synonyms

(CH3)2CHCH(OH)COOH Formula Molecular Weight 118.13 g/mol

EC-No.

2-hydroxy-3-methylbutyric acid 4026-18-0 223-697-5

Index-No.

Moderate skin irritant Moderate eye irritant

3. HAZARDS IDENTIFICATION

HMIS Classification

Health Hazard:

WHMIS Classification

2 Flammability: 0 Physical hazards: 0

Toxic Material Causing Other Toxic Effects

Potential Health Effects May be harmful if inhaled. Causes respiratory tract irritation. Inhalation May be harmful if absorbed through skin. Causes skin irritation. Skin Eyes Ingestion

Causes eye irritation. May be harmful if swallowed. 4. FIRST AID MEASURES

Wash off with soap and plenty of water. Consult a physician.

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

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5. FIRE-FIGHTING MEASURES

In case of skin contact

In case of eye contact

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

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

Ignition temperature no data available Suitable extinguishing media

Flammable properties Flash point

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters

no data available

Wear self contained breathing apparatus for fire fighting if necessary.

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

6. ACCIDENTAL RELEASE MEASURES Personal precautions

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

Environmental precautions Do not let product enter drains.

7. HANDLING AND STORAGE Handling

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Storage Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1

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(EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Personal protective equipment Respiratory protection

Hand protection Handle with gloves. Eye protection

Fluka - 55450

place.

Appearance Form

Colour

Safety data

Melting point

Storage stability

Materials to avoid

11. TOXICOLOGICAL INFORMATION

Irritation and corrosion

no data available Sensitisation no data available Chronic exposure

IARC:

Fluka - 55450

Ignition temperature

Lower explosion limit no data available Upper explosion limit no data available

Stable under recommended storage conditions.

Bases, Oxidizing agents, Reducing agents Hazardous decomposition products

Hygiene measures

Safety glasses Skin and body protection

Contains no substances with occupational exposure limit values.

crystalline

no data available

no data available

86 - 87 °C (187 - 189 °F)

Hazardous decomposition products formed under fire conditions. - Carbon oxides

white

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end 9. PHYSICAL AND CHEMICAL PROPERTIES

Choose body protection according to the amount and concentration of the dangerous substance at the work

Boiling point no data available Flash point no data available

Water solubility no data available 10. STABILITY AND REACTIVITY

No component of this product present at levels greater than or equal to 0.1% is identified as

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Acute toxicity no data available

probable, possible or confirmed human carcinogen by IARC. Signs and Symptoms of Exposure

Potential Health Effects

12. ECOLOGICAL INFORMATION

Further information on ecology

service to dispose of this material.

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

Not dangerous goods

Not dangerous goods

WHMIS Classification

D2B

DOT (US)

IMDG

Inhalation

Ingestion

no data available

no data available

Ecotoxicity effects no data available

Skin

Eyes

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

May be harmful if inhaled. Causes respiratory tract irritation.

May be harmful if absorbed through skin. Causes skin irritation.

13. DISPOSAL CONSIDERATIONS

Causes eye irritation.

Elimination information (persistence and degradability)

May be harmful if swallowed.

15. REGULATORY INFORMATION

16. OTHER INFORMATION Further information Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

2-hydroxy-3-methylbutyric acid

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. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Not dangerous goods DSL Status

> CAS-No. 4026-18-0

Moderate skin irritant Moderate eye irritant

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal

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Toxic Material Causing Other Toxic Effects

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