

ShiJiaZhuang Dowell Chemical Co.,Ltd.
SAFETY DATA SHEET Edition date/Version No.: 2014-11-4
Product Name: 2,2-Dimethylbutyric acid
according to Regulation (EC) No. 1907/2006 page: 1-6

石家庄多维化工有限公司
SHIJIAZHUANG DOWELL CHEMICAL CO.,LTD.

ShiJiaZhuang Dowell Chemical Co.,Ltd.

新腾凯

Material Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Name :2,2-Dimethylbutyric acid

Use: medical and pesticide intermediate

Manufacturer/Supplier:

ShiJiaZhuang Dowell Chemical Co.,Ltd.

Add:NO.388 jianhua N.Street Shijiazhuang City Hebei Province China

TEL:+86-311-89805675; 89805679

FAX:+86-311-80901804;85262695

contact:Cher Lee; Liying Wang

E-maill:sell@dowechem.com

[Http://www.dowechem.com](http://www.dowechem.com)

Emergency telephone no.: +86-311-89805675; 89805679

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Acute Tox. 4 H302

Skin Corr./Irrit. 2 H315

Eye Dam./Irrit. 1 H318

Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended and according to the evaluation of the Greek Authorities.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

- 2,2-Dimethylbutyric acid



signal word: Danger

Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

石家庄多
SHIJIAZHUANG D

新

ShiJiaZhuang Dowell Chemical Co.,Ltd.
SAFETY DATA SHEET Edition date/Version No.: 2014-11-4
Product Name: 2,2-Dimethylbutyric acid
according to Regulation (EC) No. 1907/2006 page: 2-6

H318 Causes serious eye damage.

Precautionary statements

P280: Wear protective gloves/protective clothing/eye protection/face protection

P310: Immediately call a POISON CENTER or doctor/physician

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P302+352: IF ON SKIN: Wash with soap and water


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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS-No. / EC-No. | Classification | Conc. [%] |
|--------------------------|-----------------------|---|-----------|
| 2,2-Dimethylbutyric acid | 595-37-9 209-865-0 |  H302, H315, H318 | 99 |

SECTION 4: FIRST AID MEASURES

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Seek immediate medical advice.

After skin contact :

Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

After eye contact :

Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing:

Seek immediate medical advice.

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases:

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Can be released in case of fire:

Carbon monoxide and carbon dioxide

Protective equipment:

Wear self-contained breathing apparatus.

ShiJiaZhuang Dowell Chemical Co.,Ltd.
SAFETY DATA SHEET Edition date/Version No.: 2014-11-4
Product Name: 2,2-Dimethylbutyric acid
according to Regulation (EC) No. 1907/2006 page: 3-6

Wear full protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Additional information:

See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: HANDLING AND STORAGE

Handling

Information for safe handling:

Keep containers tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Storage

Requirements to be met by storerooms and containers:

No special requirements.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with critical values that require monitoring at the workplace:

Not required.

SHI
JIA
ZHUANG
DOWELL
CHEMICAL
CO., LTD.

ShiJiaZhuang Dowell Chemical Co.,Ltd.
SAFETY DATA SHEET Edition date/Version No.: 2014-11-4
Product Name: 2,2-Dimethylbutyric acid
according to Regulation (EC) No. 1907/2006 page: 4-6

Additional information: No data

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Breathing equipment:

Use breathing protection with high concentrations.

Protection of hands:

Check protective gloves prior to each use for their proper condition.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Eye protection: Safety glasses

Face protection

Body protection: Protective work clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

General Information

| | |
|---|---------------------------|
| Form: | Liquid |
| Colour: | Colourless |
| Smell: | Pungent |
| Change in condition | |
| Melting point/Melting range: | -14°C |
| Boiling point/Boiling range: | 186°C |
| Sublimation temperature / start: | Not determined |
| Flash point: | 90°C |
| Ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Danger of explosion: | Product is not explosive. |
| Critical values for explosion: | |
| Lower: | Not determined |
| Upper: | Not determined |
| Steam pressure: | Not determined |
| Density at 20°C | 0.926 g/cm ³ |
| Solubility in / Miscibility with Water at 22°C: | 3 g/l |

SECTION 10: STABILITY AND REACTIVITY



ShiJiaZhuang Dowell Chemical Co.,Ltd.
SAFETY DATA SHEET Edition date/Version No.: 2014-11-4
Product Name: 2,2-Dimethylbutyric acid
according to Regulation (EC) No. 1907/2006 page: 5-6

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Materials to be avoided:

Oxidizing agents

Bases

Dangerous reactions:

No dangerous reactions known

Dangerous products of decomposition:

Carbon monoxide and carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:

LD/LC50 values that are relevant for classification:

Oral LD50 400-2000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rat)

Primary irritant effect:

on the skin:

Irritant for skin and mucous membranes.

Corrosive effect on skin and mucous membranes.

on the eye:

Irritant effect.

Strong corrosive effect.

Sensitization:

No sensitizing effect known.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

SECTION 12: ECOLOGICAL INFORMATION

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment):

slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

SECTION 13: DISPOSAL CONSIDERATIONS

Product:

Recommendation

Consult state, local or national regulations for proper disposal.

Hand over to disposers of hazardous waste.

2
CO
7

ShiJiaZhuang Dowell Chemical Co.,Ltd.
SAFETY DATA SHEET Edition date/Version No.: 2014-11-4
Product Name: 2,2-Dimethylbutyric acid
according to Regulation (EC) No. 1907/2006 page: 6-6

Must be specially treated under adherence to official regulations.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

UN number

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG Marine Pollutant: no IATA: no

Special precautions for user

no data available

SECTION 15: REGULATORY INFORMATION

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

no data available

Chemical Safety Assessment

A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing MSDS: Health, Safety and Environmental Department.

司
LTD.