date of issue : 17/10/2013

JUNSEI

Safety Data Sheets

1. Identification

Product name :Methyl isobutyrate

Name of supplier :JUNSEI CHEMICAL CO., LTD.

Address :1-6, Ohmano-Cho, Koshigaya, Saitama 343-0844, Japan

Division :GUARANTEE OF QUALITY DEPARTMENT

Phone :+81-48-986-6161

FAX :+81-48-989-2787

E-mail :shiyaku-t@junsei.co.jp

Product code(SDS NO) :15340jis_J_E1-1

2. Hazards identification

GHS classification and label elements of the product

GHS classification

PHYSICAL HAZARDS

Flammable liquids : Category 2

(Note) GHS classification without description : Not applicable/Out of classification/Not classifiable



Signal word : Danger

HAZARD STATEMENT

Highly flammable liquid and Vapor

PRECAUTIONARY STATEMENT

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use appropriate media other than water for extinction.

Storage

Store in well-ventilated place. Keep cool .

Disposal

Dispose of contents/container

Physical and Chemical hazards

Highly flammable liquid. Vapor/air mixture may explode.

3. Composition/information on ingredients

Substance/Preparation :Substance

Ingredient name:Methyl isobutyrate
content(%):98.0 <
Chemical formula:C5H10O2
Chemicals No, Japan:2-779
CAS No.:547-63-7
MW:102.13
ECNO:208-929-5

4. First-aid measures

IF INHALED

Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN(or hair)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES :

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.
Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Suitable extinguishing media

water mist, foam, dry powder, CO2

Specific hazards arising from the chemical

Containers may explode when heated.
Fire may produce irritating, corrosive and/or toxic gases.
Runoff from fire control or dilution water may cause pollution.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.
Wear cold insulating gloves/face shield/eye protection.
Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.
Wear proper protective equipment.

Environmental precautions

Avoid release to the rivers, lakes, ocean, groundwater.

Methods and materials for neutralization, containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

Collect spillage.

7. Handling and storage

Precautions for safe handling
Preventive measures
(Exposure Control for handling personnel)
Use personal protective equipment as required.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Exhaust/ventilator
Exhaust/ventilator should be available.
Safety treatments
Avoid contact with skin.
Avoid contact with eyes.
Avoid breathing dust, vapor, mist, or gas.
Safety Measures/Incompatibility
Wear protective gloves/protective clothing/eye protection/face protection.
When using do not eat, drink or smoke.
Conditions for safe storage, including any incompatibilities
Recommendation for storage
Keep container tightly closed.
Store in well-ventilated place. Keep cool .

8. Exposure controls/personal protection

No Adopted value data available
Appropriate engineering controls
Do not use in areas without adequate ventilation.
Eye wash station should be available.
Washing facilities should be available.
Protective equipment
Respiratory protection
Wear positive pressure self-contained breathing apparatus (SCBA).
Hand protection
Wear protective gloves.
Eye protection
Wear eye/face protection.

9. Physical and Chemical Properties

Physical properties
Appearance :liquid
Color :colorless
Odor :Characteristic odor
pH data N.A.
Phase change temperature
Initial Boiling Point/Boiling point :93℃
Melting point/Freezing point :N.A -85～ -84℃
Decomposition temperature data N.A.
Flash point data N.A
Auto-ignition temperature data N.A
Explosiont data N.A
Vapor pressure data N.A
Vapor density data N.A

Specific gravity/Density :0.886～0.896g/ml (20℃)
Solubility
Solubility in water :slightly soluble
Solubility in solvent :Miscible with ethanol.
n-Octanol /water partition coefficient data N.A

10. Stability and Reactivity

Stability
Stable under normal storage/handling conditions.
Conditions to avoid
Open flames. Heat.
Hazardous decomposition products
Carbon oxides

11. Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics
No Acute toxicity data available
No Irritant properties data available
No Allergenic and sensitizing effects data available
No Mutagenic effects data available
No Teratogenic effects data available
No Carcinogenic effects data available
No Toxicity for reproduction data available
No Delayed/chronic effects from short/long-term exposure data available
No Aspiration hazard data available

12. Ecological Information

Ecotoxicity
No Aquatic toxicity data available
No Persistence and degradability data available
No Bioaccumulative potential data available

13. Disposal Considerations

Disposal methods
Dispose of contents/container in accordance with local/national regulation

14. Transport Information

UN No, UN CLASS
UN No :1237
UN CLASS :3
PG :II
Proper shipping name :METHYL BUTYRATE
ERG GUIDE NO :129

15. Regulatory Information

GHS classification and labelling
Flam. Liq. 2 : H225 Highly flammable liquid and Vapor
US major regulations

TSCA

Methyl isobutyrate

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 17th edit. UN
Classification, labelling and packaging of substances and mixtures (reg.(EC) No 1272/2008)
2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)
2013 TLVs and BEIs. (ACGIH)
http://monographs.iarc.fr/monoeval/grlist.html
Supplier's data/information

Other information

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own test
The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.
The GHS classification data given here is based on currentEU official data