Date of issue: 06/07/2018
Date of revision: 11/03/2020

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:
- Product name: Tin 2-ethylhexanoate
- SDS No. : 7843E-2

Details of the supplier of the safety data sheet
- Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.
- Address: 3-1, Honmachibashi, Chuo-ku,Osaka ,JAPAN
- Division: Safety Management Dept. of Chemicals
- Telephone number: +81-6-6946-8061
- FAX: +81-6-6946-1607
- e-mail address: kagakuhinanzenkanri@kishida.co.jp

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

HEALTH HAZARDS
- Skin corrosion/irritation: Category 2
- Serious eye damage/eye irritation: Category 2
- Reproductive toxicity: Category 1B

(CNS)

(CNS; kidney)

(Note) GHS classification without description: Not classified/Classification not possible

Label elements

Signal word: Danger

HAZARD STATEMENT
- Causes skin irritation
- Causes serious eye irritation
- May damage fertility or the unborn child

PRECAUTIONARY STATEMENT

Prevention
- Wash contaminated parts thoroughly after handling.
- Wear protective gloves.
- Wear eye protection/face protection.

Response
- IF exposed or concerned: Get medical advice/attention.
- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- 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.

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

3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name:Tin 2-ethylhexanoate

Content (%):95(min)

Chemical formula:C16H30O4Sn

Chemicals No, Japan:2-615

CAS No.:301-10-0

MW:405.12

ECNO:206-108-6

Note : The figures shown above are not the specifications of the product.

Impurities and stabilizing additives

Impurities: 2-Ethylhexanoic acid 3.0% (CAS No.149-57-5)

4. First-aid measures

Descriptions of first-aid measures

General measures

IF exposed or concerned: Get medical attention/advice.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

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

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash with plenty of soap and water.

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

Extinguishing media

Suitable extinguishing media

In case of fire, use foam, dry powder, CO2 to extinguish.

Unsuitable extinguishing media

Indoor　firefighting equipment or outdoor　firefighting equipment

Sprinkler equipment

Dry-powder firefighting equipment - except for phosphate etc.,hydrogen carbonate etc.

Straight stream water extinguisher

Water mist extinguisher

Reinforcing liquid jet extinguisher

Dry-powder extinguisher - except for phosphate etc.,hydrogen carbonate etc.

Bucket of water or tank of water

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Wear protective gloves/protective clothing/eye protection/face 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 until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Methods and materials for 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

(Protective measures against fire and explosion)

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

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures

Wear protective gloves, protective clothing or face protection.

Wear eye protection/face protection.

When using do not eat, drink or smoke.

Any incompatibilities

See "10.Stability and Reactivity"

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Storage

Conditions for safe storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

Container and packaging materials for safe handling

Glass

8. Exposure controls/personal protection

Control parameters

Adopted value

(2-Ethylhexanoic acid)

ACGIH(2006) TWA: 5mg/m3(IFV) (Teratogenic eff)

(Tin 2-ethylhexanoate)

ACGIH(1995) TWA: 0.1mg-Sn/m3;
STEL: 0.2mg-Sn/m3 (Eye & URT irr; headache; nausea; CNS & immune eff)
Notation
(Tin 2-ethylhexanoate)
Skin
OSHA-PEL
(Tin 2-ethylhexanoate)
TWA: 0.1mg-Sn/m3
Exposure controls
Appropriate engineering controls
Do not use in areas without adequate ventilation.
Eye wash station should be available.
Washing facilities should be available.
Individual protection measures
Respiratory protection
Wear respiratory protection.
Hand protection
Wear protective gloves.
Eye protection
Wear eye/face protection.

9. Physical and Chemical Properties

Information on basic physical and chemical properties
Physical state: Liquid
Color: Light yellow
Odor: Characteristic odor
pH data is not available.
Boiling point or initial boiling point data is not available.
Boiling range data is not available.
Melting point/Freezing point data is not available.
Decomposition temperature data is not available.
Flammability (gases, liquids and solids) data is not available.
Flash point: (Tin 2-ethylhexanoate)141℃
Auto-ignition temperature data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Vapor pressure data is not available.
Relative vapor density (Air=1) data is not available.
Density and/or relative density: 1.27 (25℃)
Dynamic viscosity: 400mPas(25℃)
Kinematic viscosity data is not available.
Solubility:
Solubility in water: Insoluble
n-Octanol/water partition coefficient data is not available.
No Particle characteristics data is not available.

10. Stability and Reactivity

Reactivity
Not available.
Chemical stability
Stable under normal storage/handling conditions.
Possibility of hazardous reactions
(Tin 2-ethylhexanoate)

Decomposes on contact with acids and bases. May be ignited by contact with strong oxidizing agents.
(2-Ethylhexanoic acid)
The substance is a strong reducing agent. It reacts violently with oxidants. Decomposes on heating. This produces irritating fumes. (ICSC 0477)

Conditions to avoid
Contact with incompatible materials.
Contact with fire source.

Incompatible materials
Acids, Bases, Oxidizing agents

Hazardous decomposition products
Carbon oxides, Tin compounds

---

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)
[GHS Cat. Japan, base data]
(2-Ethylhexanoic acid)
rat LD50=2043mg/kg (IUCLID, 2000)
[Company proprietary data]
(Tin 2-ethylhexanoate)
rat LD50=5870mg/kg

Acute toxicity (Dermal)
[GHS Cat. Japan, base data]
(2-Ethylhexanoic acid)
rabbit LD50=1140mg/kg (ACGIH, 2001)

Irritant properties

Skin corrosion/irritation
[GHS Cat. Japan, base data]
(2-Ethylhexanoic acid)
rabbit corrosive (IUCLID, 2000)
[Company proprietary data]
(Tin 2-ethylhexanoate)
rabbit, Mild

Serious eye damage/irritation
[GHS Cat. Japan, base data]
(2-Ethylhexanoic acid)
rabbit (ACGIH 7th, 2001)
[Company proprietary data]
(Tin 2-ethylhexanoate)
rabbit, Moderate

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenicity
(Tin 2-ethylhexanoate)
ACGIH-A4 : Not Classifiable as a Human Carcinogen

Reproductive toxicity
[GHS Cat. Japan, base data]
(2-Ethylhexanoic acid)
cat. 1B; rat : ACGIH 7th, 2001

STOT

STOT-single exposure

[cat.2]
[GHS Cat. Japan, base data]
(2-Ethylhexanoic acid)
respiratory apparatus/system (HSDB, 2008)
STOT-repeated exposure data is not available.
Aspiration hazard data is not available.

12. Ecological Information

Ecotoxicity
Aquatic toxicity
Aquatic acute toxicity component(s) data
[GHS Cat. Japan, base data]
(2-Ethylhexanoic acid)
Crustacea (Daphnia magna) EC50=85.4mg/L/48hr (IUCLID, 2000)
Water solubility
(2-Ethylhexanoic acid)
0.14 g/100 ml (ICSC, 2005)
Persistence and degradability
Persistence and degradability data is not available.
Bioaccumulative potential
(2-Ethylhexanoic acid)
log Pow=2.64 (PHYSPROP DB, 2005)
Mobility in soil
Mobility in soil data is not available.
Other adverse effects
Ozone depleting chemical data is not available.

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging
Waste treatment methods
Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

Not applicable to UN No., UN CLASS
Not applicable to IMDG Code
Not applicable to IATA Dangerous Goods Regulations
Environmental hazards
MARPOL Annex III - Prevention of pollution by harmful substances
Marine pollutants (yes/no) : no
MARPOL Annex V - Prevention of pollution by garbage discharge
Reproductive toxicity: cat.1, 1A, 1B
2-Ethylhexanoic acid
Transport in bulk according to Annex II of MARPOL73/78 and IBC Code
Noxious Liquid ; Cat. Y
2-Ethylhexanoic acid

15. Regulatory Information

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

US major regulations

Chemicals listed in TSCA Inventory

2-Ethylhexanoic acid; Tin 2-ethylhexanoate

Other regulatory information

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

16. Other information

GHS classification and labelling

Skin Irrit. 2: H315 Causes skin irritation

Eye Irrit. 2: H319 Causes serious eye irritation

Repr. 1B: H360 May damage fertility or the unborn child

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (6th ed., 2015), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA Dangerous Goods Regulations (60th Edition) 2019

Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2019 TLVs and BEIs. (ACGIH)

http://monographs.iarc.fr/ENG/Classification/index.php

Supplier's data/information

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

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 current Japan official data (NITE published in 2018).