Safety Data Sheet

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

   Product identifier:
   Product name: Carboxymethyl cellulose sodium salt
   Product code(SDS NO): 1451E-1

Details of the supplier of the safety data sheet

   Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.
   Address: 3-1, Honmachibashi, Chuo-ku, Osaka 540-0029, 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
(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

3. Composition/information on ingredients

Mixture/Substance selection:

   Substance
   Ingredient name: Carboxymethyl cellulose sodium salt
   Content(%):—
   Chemicals No, Japan: 8-181; 8-203
   CAS No.: 9004-32-4

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

Impurities and stabilizing additives

   • 2-Propanol <0.50% (CAS No.67-63-0)
   • Methanol <0.30% (CAS No.67-56-1)

4. First-aid measures

   Descriptions of first-aid measures

   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.
   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
Use appropriate extinguishing media suitable for surrounding facilities.
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 piece 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.
Methods and materials for containment and cleaning up
Sweep up, place in a bag and hold for waste disposal.
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/Incompatibility
Wear protective gloves, protective clothing or 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 a cool, dry place. Do not store in direct sunlight.

8. Exposure controls/personal protection
Control parameters
Adopted value
(Methanol)
ACGIH(2008) TWA: 200ppm;
STEL: 250ppm (Headache; eye dam; dizziness; nausea)
(2-Propanol)
ACGIH (2001) TWA: 200 ppm; STEL: 400 ppm (Eye & URT irr; CNS impair)

Notation
(Methanol)
Skin
OSHA-PEL
(2-Propanol)
TWA: 400 ppm, 980 mg/m³
(Methanol)
TWA: 200 ppm, 260 mg/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 properties
Appearance: Powder
Color: White ~ pale yellow
Odor data N.A.
pH data N.A.
Phase change temperature
Initial Boiling Point/Boiling point data N.A.
Boiling range data N.A.
Melting point/Freezing point data N.A.
Decomposition temperature data N.A.
Flash point data N.A.
Auto-ignition temperature data N.A.
Explosive properties data N.A.
Vapor pressure data N.A.
Specific gravity/Density data N.A.
Solubility
Solubility in water data N.A.
n-Octanol /water partition coefficient data N.A.

10. Stability and Reactivity
Reactivity
N.A.
Chemical stability
Stable under normal storage/handling conditions.
Possibility of hazardous reactions
(2-Propanol)
Reacts with strong oxidants. Attacks some plastics and rubber. (ICSC 0554)
Reacts violently with strong oxidants, acids and reducing agents. This generates fire and explosion hazard. (ICSC 0057)

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

Incompatible materials
Acids, Strong oxidizing agents, Reducing agents

Hazardous decomposition products
Carbon oxides

11. Toxicological Information
Information on toxicological effects

Acute toxicity
Acute toxicity (Oral)
[GHS Cat. Japan, base data]
(Methanol)
human LD50=ca. 1400mg/kg (DFGOT vol.16, 2001)
(2-Propanol)
rat LD50=5480mg/kg (EHC 103, 1990)

Acute toxicity (Dermal)
[GHS Cat. Japan, base data]
(Methanol)
rabbit LD50=15800mg/kg (DFGOT vol.16, 2001)
(2-Propanol)
rabbit LD50=12870mg/kg (EHC 103, 1990)

Acute toxicity (Inhalation)
[GHS Cat. Japan, base data]
(Methanol)
vapor: rat LC50>31500ppm/4hr (DFGOT vol.16, 2001)

Irritant properties
Serious eye damage /irritation
[GHS Cat. Japan, base data]
(Methanol)
rabbit category 2 : Draize test (EHC 196, 1997)
(2-Propanol)
rabbit (PATTY 6th, 2012 et al)

No Allergenic and sensitizing effects data available
No Mutagenic effects data available
Carcinogenicity
(2-Propanol)
IARC–Gr.3 : Not Classifiable as a Human Carcinogen
(2-Propanol)
ACGIH–A4(2001) : Not Classifiable as a Human Carcinogen

Reproductive toxicity
[GHS Cat. Japan, base data]
(2-Propanol)
cat. 2; PATTY 6th, 2012
(Methanol)
cat. 1B; mouse : PATTY 5th, 2001

No Teratogenic effects data available

Delayed and immediate effects and also chronic effects from short- and long-term exposure STOT
12. Ecological Information

Ecotoxicity

Aquatic toxicity

Aquatic acute toxicity component(s) data

[GS Cat. Japan, base data]

(2-Propanol)

Fish (Atheriniformes) LC50 >100mg/L/96hr (MOE Japan, 1997)

(Methanol)

Crustacea (Brine shrimp) LC50=900.73mg/L/24hr (EHC196, 1998)

Aquatic chronic toxicity component(s) data

[GS Cat. Japan, base data]

(2-Propanol)

Crustacea (Daphnia magna) NOEC >100mg/L/21days (MOE Japan, 1997)

Water solubility

(2-Propanol)

In water, infinitely soluble (25°C) (HSDB, 2013)

(Methanol)

100 g/100 ml (PHYSPROP_DB, 2009)

Persistence and degradability

(2-Propanol)

Degradate rapidly (Degradation : 86% (Registered chemicals data check & review, 1993))

Bioaccumulative potential

(2-Propanol)

log Pow=0.05 (ICSC, 1999)

(Methanol)

log Pow=-0.82/-0.66 (ICSC, 2000)

No Mobility in soil data available

Ozone depleting chemical data not available

13. Disposal considerations

Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.
14. Transport Information
Not applicable to UN NO.

15. Regulatory Information
Safety, health and environmental regulations/legislation specific for the substance or mixture
US major regulations
TSCA
Methanol; 2-Propanol; Carboxymethyl cellulose sodium salt
Other regulatory information
Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information
The product is not applicable to GHS classifications.

Reference Book
Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN
Classification, labelling and packaging of substances and mixtures (table3–1 ECNO6182012)
2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2018 TLVs and BEIs. (ACGIH)
http://monographs.iarc.fr/ENG/Classification/index.php
Supplier’s data/information
Chemicals safety data management system “GHS Assistant” Asahi Graphic Corporation

General Disclaimer
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 tests to determinate the safety and suitability of each such product or combination for their own purposes.
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 2017).