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Safety Data Sheet

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

Product identifier:
Product name: Carbol-fuchsine dilute solution
SDS No. : E0019E-3
Relevant identified uses of the substance or mixture and uses advised against
Research and Development
Details of the supplier of the safety data sheet
Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.
Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN
Division: Chemical Safety Management Department
Telephone number: +81-6-6946-8061
FAX: +81-6-6946-1607

Section 2. Hazards identification

GHS classification and label elements of the product
Classification of the substance or mixture
HEALTH HAZARDS
Carcinogenicity: Category 1A
Reproductive toxicity: Category 1A
(Note) GHS classification without description: Not classified/Classification not possible
Label elements

Signal word: Danger
HAZARD STATEMENT
H350 May cause cancer
H360 May damage fertility or the unborn child
PRECAUTIONARY STATEMENT
Prevention
P202 Do not handle until all safety precautions have been read and understood.
P280 Use personal protective equipment as required.
Response
P308 + P313 IF exposed or concerned: Get medical advice/attention.
Storage
P405 Store locked up.
Disposal
P501 Dispose of contents/container in accordance with local/national regulation.
Specific adverse human health effects
See "11. Toxicological Information".

Section 3. Composition/information on ingredients

Mixture/Substance selection:

Mixture

Ingredient name	Content (%)	CAS No.	Chemicals No, Japan	Chemical formula
Ethanol	0.72	64-17-5	2-202	C2H5OH
Phenol	0.47	108-95-2	3-481	C6H5OH
Fuchsine, basic	0.10	632-99-5	5-1976	C20H19N3.ClH
Water	99	7732-18-5	-	H2O

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

Section 4. First-aid measures

Descriptions of first-aid measures

General measures

IF exposed or concerned: Get medical advice/attention.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

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

IF ON SKIN

Take off immediately all contaminated clothing. Rinse skin with water or 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/doctor/physician if you feel unwell.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

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

Runoff from fire control or dilution water may cause pollution.

See "10.Stability and Reactivity".

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.

Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.
Ventilate area until material pick up is complete.
Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses, low areas or rivers. To be careful not discharged to the environment without being properly handled waste water contaminated.

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.

Section 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.
Avoid contact with eyes.

Safety Measures

Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands et al thoroughly after handling.
When using do not eat, drink or smoke.

Any incompatibilities

See "10.Stability and Reactivity".

Storage

Conditions for safe storage

Keep container tightly closed.
Store locked up. (P405)
Store in a cool, dry place. Do not store in direct sunlight.
Storage in accordance with local/national regulation.

Container and packaging materials for safe handling

Use closed unbreakable containers.

Section 8. Exposure controls/personal protection

Control parameters

Control value and concentration standard value are not available in ISHA.

Adopted value

(Phenol)

JSOH(1978) 5ppm; 19mg/m3 (skin)

(Ethanol)

ACGIH(2009) STEL: 1000ppm (URT irr)

(Phenol)

ACGIH(1996) TWA: 5ppm (URT irr; lung dam; CNS impair)

[ACGIH] Notation

(Phenol)

Skin

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

Recommend to use protective equipment in conformity with the standards.

Use appropriate protective equipment in accordance with local/national regulation.

Respiratory protection

Wear respiratory protection (dust-proof mask/gas mask). Select chemical cartridge corresponding to type of gases when using a gas mask.

Hand protection

Wear impervious protective glove.

Eye protection

Wear eye/face protection. Wear safety goggles in cases gas is generated.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Liquid

Color: Red

Odor: Practically odorless

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Soluble

Solubility in solvent data is not available.
n-Octanol/water partition coefficient data is not available.
Vapor pressure data is not available.
Density and/or relative density: 1.0
Relative vapor density (Air=1) data is not available.
Particle characteristics data is not available.
Other information
Other information is not available.

Section 10. Stability and Reactivity

Reactivity
Not available.
Chemical stability
Stable under normal storage/handling conditions.
Possibility of hazardous reactions
(Ethanol)
The vapour mixes well with air, explosive mixtures are easily formed.
Reacts slowly with calcium hypochlorite, silver oxide and ammonia. This generates fire and explosion hazard. Reacts violently with strong oxidants such as nitric acid, silver nitrate, mercuric nitrate and magnesium perchlorate. This generates fire and explosion hazard. (ICSC 0044)
(Phenol)
The solution in water is a weak acid. Reacts with oxidants. This generates fire and explosion hazard. (ICSC 0070)
Conditions to avoid
Contact with incompatible materials.
Contact with fire source.
Incompatible materials
Oxidizing agents, Calcium hypochlorite, Silver oxide, Ammonia
Hazardous decomposition products
Carbon oxides, Nitrogen oxides, Chlorine compounds

Section 11. Toxicological Information

Information on toxicological effects
Acute toxicity
Acute toxicity (Oral)
[Data for components of the product]
[GHS Cat. Japan, base data]
(Phenol)
rat LD50=340-530mg/kg (AICIS IMAP, 2014)
Acute toxicity (Dermal)
[Data for components of the product]
[GHS Cat. Japan, base data]
(Phenol)
rat LD50=0.50mL/kg (converted value by density 1.071g/cm3: 536mg/kg) (EPA Pesticides RED, 2009)
Irritant properties
Skin corrosion/irritation

[Data for components of the product]
[GHS Cat. Japan, base data]
(Phenol)
(OECD TG 431)skin corrosive(AICIS IMAP, 2014)

Serious eye damage/irritation
[Data for components of the product]
[GHS Cat. Japan, base data]
(Ethanol)
rabbit recover within 7 days (ECETOC TR No.48(2), 1998 et al)
(Phenol)
rabbit (equivalent to OECD TG 405)severe conjunctivitis, iritis, corneal opacity and ulcers, not recover after 14 days (CERI/NITE Hazard Assessment Report, 2008 et al)

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenicity
[Product]
Category 1A, May cause cancer
[Data for components of the product]
[GHS Cat. Japan, base data]
(Ethanol)
cat.1A; (IARC, 2010)
(Fuchsine, basic)
cat.2; IARC Gr. 2B (IARC 99, 2010 (magenta mixture) et al.)
[IARC]
(Ethanol)
Group 1 : Carcinogenic to humans
(Phenol)
Group 3 : Not classifiable as to its carcinogenicity to humans
(Fuchsine, basic)
Group 2B : Possibly carcinogenic to humans
[ACGIH]
(Ethanol)
A3(2009) : Confirmed Animal Carcinogen with Unknown Relevance to Humans
(Phenol)
A4(1996) : Not Classifiable as a Human Carcinogen

Reproductive toxicity
[Product]
Category 1A, May damage fertility or the unborn child
[Data for components of the product]
[GHS Cat. Japan, base data]
(Ethanol)
cat. 1A; human : PATTY 6th, 2012
(Phenol)
cat. 1B; EFSA, 2013 et al.

Specific target organ toxicity (STOT)
STOT-single exposure
[Data for components of the product]
[cat.3 (respiratory tract irritation)]
[GHS Cat. Japan, base data]
(Ethanol)

respiratory tract irritation (PATTY 6th, 2012)
[cat.3 (narcotic effects)]
[GHS Cat. Japan, base data]
(Ethanol)
narcotic effect (PATTY 6th, 2012; SIDS, 2005)
STOT-repeated exposure data is not available.
Aspiration hazard data is not available.

Section 12. Ecological Information

Toxicity
Aquatic toxicity
[Data for components of the product]
Hazardous to the aquatic environment, short-term (acute)
[GHS Cat. Japan, base data]
(Ethanol)
Algae (Chlorella) EC50=1000mg/L/96hr (SIDS, 2005)
(Phenol)
Crustacea (Ceriodaphnia dubia) LC50=3.1mg/L/48hr (MOE Result of the initial environmental risk assessment of chemicals, 2002)
Hazardous to the aquatic environment, long-term (chronic)
[GHS Cat. Japan, base data]
(Ethanol)
Crustacea (Ceriodaphnia sp.) NOEC=9.6mg/L/10days (SIDS, 2005)
(Phenol)
Fish (Cirrhina mrigala) NOEC=0.077mg/L/60days (SIAP, 2004)
Water solubility
(Ethanol)
miscible (ICSC, 2000)
(Phenol)
moderate (ICSC, 2001)
Persistence and degradability
[Data for components of the product]
(Ethanol)
Rapidly degradable (BOD_Degradation : 89% (METI existing chemical safety inspections, 1993))
(Phenol)
Rapidly degradable (BOD_Degradation : 85% (METI Existing Chemical Substances Safety Inspections Data, 1979))
Bioaccumulative potential
[Data for components of the product]
(Ethanol)
log Pow=-0.32 (ICSC, 2000)
(Phenol)
log Pow=1.46 (ICSC, 2001)
Mobility in soil
Mobility in soil data is not available.
Other adverse effects
Ozone depleting chemical data is not available.

Section 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 as industrial waste. Accordance with local/national regulation.

Section 14. Transport Information

UN Number or ID Number : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

IATA (Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

Environmental hazards

Marine pollutants (yes/no) : no

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Ethanol; Phenol; Fuchsine, basic; Water

Other regulatory information

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

Section 16. Other information

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN
IMDG Code, 2022 Edition (Incorporating Amendment 41-22)
IATA Dangerous Goods Regulations (65th Edition) 2024
2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2024 TLVs and BEIs. (ACGIH)
JIS Z 7252 : 2019
JIS Z 7253 : 2019
2023 Recommendation on TLVs (JSOH)
Supplier's data/information

General Disclaimer

Please provide SDS to customers for selling or transferring.
All chemicals have unknown hazard. Handle the product with care.
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 2022).