

CNET-salicylaldehyde solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 3/28/2022 Revision date: 5/23/2023 SDS code: SB-17 Version: 02

Safety Data Sheet

1. Chemical product and company identification

Product name CNET-salicylaldehyde solution

SDS code **SB-17**

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

Telephone: 06-6910-7305

E-mail: shiyaku_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

Emergency number 06-6910-7305

Recommended use For research and experimental use only.

Do not use for any purpose other than research and experiment. Do not use on a Restrictions on use

human body or for animal medicines, foods, household products, cosmetics, etc.

Do not use in the environment.

2. Hazards identification

GHS classification

Physical hazards **Explosives** No classification

> Flammable gases No classification Aerosol No classification Oxidizing gases No classification Gases under pressure No classification Flammable liquids Category 2 Flammable solids No classification Self-reactive substances and No classification

mixtures

No classification Pyrophoric liquids Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

No classification

No classification Oxidizing liquids No classification Oxidizing solids No classification Organic peroxides

classification not possible Corrosive to metals Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) No classification

> Acute toxicity (dermal) Category 3 Acute toxicity (inhalation:gas) No classification Acute toxicity (inhalation:vapors) Category 4

Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation No classification Serious eye damage/eye irritation Category 2

Respiratory sensitization classification not possible Skin sensitization classification not possible Germ cell mutagenicity classification not possible Carcinogenicity classification not possible Reproductive toxicity classification not possible

Specific target organ toxicity (single Category 1 (central nervous system, respiratory

exposure) system)

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Specific target organ toxicity

(repeated exposure) Aspiration hazard

Category 2 (blood system, central nervous system,

respiratory system, liver, kidneys)

Environmental hazards

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the ozone layer

Hazardous to the aquatic environment, long-term (chronic)

classification not possible

classification not possible

classification not possible

classification not possible

Hazard pictograms (GHS JP)







GHS02

GHS06

GHS08

Signal word (GHS JP)

Danger

Hazard statements (GHS JP) Highly flammable liquid and vapor (H225)

Toxic in contact with skin (H311) Causes serious eye irritation (H319)

Harmful if inhaled (H332)

Causes damage to organs (central nervous system, respiratory system)

May cause damage to organs (blood system, central nervous system, respiratory system, liver, kidneys) through prolonged or repeated exposure

(H373)

Precautionary statements (GHS JP)

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. (P210)

Keep container tightly closed. (P233)

Ground and bond container and receiving equipment. (P240) Use explosion-proof electrical/ventilating/lighting equipment. (P241)

Use only non-sparking tools. (P242)

Take action to prevent static discharges. (P243)

Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

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

(P280)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Response

Rinse skin with water . (P303+P361+P353)

IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

(P305+P351+P338)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

Get medical advice/attention if you feel unwell. (P314)

If eye irritation persists: Get medical advice/attention. (P337+P313) Take off immediately all contaminated clothing and wash it before reuse.

(P361+P364)

In case of fire: Use specify appropriate media to extinguish. (P370+P378)

Store in a well-ventilated place. Keep cool. (P403+P235) Storage

Store locked up. (P405)

Disposal Dispose of contents/container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international

regulation. (P501)

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3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
Hallic			CSCL no	ISHL no	CASIM
Acetonitrile	≧98%	CH3CN	(2)-1508	Existing Chemical Substance	75-05-8
CNET-salicylaldehyde	About 0.001% (as salicylaldehyde)	C17H16N2O3	-	-	-

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

Get immediate medical advice/attention.

First-aid measures after skin

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water.

Get immediate medical advice/attention.

First-aid measures after eye

contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting.

Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Fire hazard

Hazardous decomposition products

in case of fire

Explosion hazard

Firefighting instructions

Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

Do not use a heavy water stream.

Extremely flammable liquid and vapor.

Danger of the steam explosion in indoor, outdoor, sewer.

May induce explosion of containers by heating.

In case of fire, product may produce irritative or toxic fumes/gases.

If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

fire at a stroke using appropriate fire-extinguishers.

In the case of peripheral fire, quickly remove movable containers to safe

places.

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Avoid (reject) fire-fighting water to enter environment.

Even after extinguishing fire, thoroughly cool containers by using plenty of

water.

Protection during firefighting : Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Before entering, ventilate the area.

Do not let unauthorized persons come close to the area.

Immediately place the leakage area in isolation, with taking proper

distances for all directions.

Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.

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Environmental precautions

Environmental precautions : Avoid release to the environment.

Prevent entry to sewers and public waters.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to

collect it.

Collect leaking and spilled liquid in sealable containers as far as possible.

Wash out the spilled area with large amounts of water.

7. Handling and storage

Handling

Technical measures : Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling : Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Take precautionary measures against static discharge.

Use explosion-proof equipment.

Prevents handling of incompatible

substances or mixtures

Avoid prolonged or repeated exposure.

Storage

Storage conditions : Store locked up.

Store in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Material used in

packaging/containers

Light shielding airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Refrigerate: 2-10°C

8. Exposure controls / Personal protection equipment

Exposure limit values	
Acetonitrile	
Exposure limits (ACGIH)	TWA 20 ppm,STEL - (Skin)

Appropriate engineering controls

: Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Gas mask for organic gases
Hand protection : Impervious protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection : Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

Physical state : Liquid
Appearance : Liquid

Color : No data available
Odor : No data available
pH : No data available
Melting point : -45 °C (as acetonitrile)
Freezing point : No data available
Boiling point : 82 °C (as acetonitrile)

Flash point : 9.5 °C (as acetonitrile, tag closed cup)

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Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative density : No data available

Density : 0.80 g/cm³ (as acetonitrile)

Relative gas density : No data available
Solubility : No data available
Partition coefficient n- : No data available

octanol/water (Log Pow)

Explosive limits (vol %) : No data available Viscosity, kinematic : No data available Particle characteristics : No data available

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : Reacts with strong oxidizing agents to pose a risk of fire and explosion.

Reacts with acids and bases to evolve a toxic gas. Corrodes plastics and

rubbers.

Conditions to avoid : Sunlight, moisture, heat. Ignition sources such as flame, spark and static

electricity. Contact with oxidizing agents, reducing agents, acids and bases.

Contact with vinyl chloride resin, polystyrene, polycarbonate, etc.

Incompatible materials : Oxidizing agents, Reducing agents, Acids, Bases, Vinyl chloride resin,

Polystyrene, Polycarbonate, etc

Hazardous decomposition

products

Nitrogen oxides, Hydrogen cyanide

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE

As a product		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	Category 3	
Acute toxicity (inhalation)	vapors:Category 4	
	Gases:No classification	
	dust, mist:classification not possible	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	Category 2	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure STOT-repeated exposure	Category 1 Category 2	
Aspiration hazard	classification not possible	
	Classification not possible	
Acetonitrile		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	Category 3	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	Category 4	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	Category 2	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	

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Acetonitrile		
STOT-single exposure	Category 1	
STOT-repeated exposure	Category 2	
Aspiration hazard	classification not possible	
CNET-salicylaldehyde		
Acute toxicity (oral)	No data available	
Acute toxicity (dermal)	No data available	
Acute toxicity (gas)	No data available	
Acute toxicity (vapour)	No data available	
Acute toxicity (inhalation:dust/mist)	No data available	
Skin corrosion/irritation	No data available	
Serious eye damage/irritation	No data available	
Respiratory sensitization	No data available	
Skin sensitization	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	No data available	
Reproductive toxicity	No data available	
STOT-single exposure	No data available	
STOT-repeated exposure	No data available	
Aspiration hazard	No data available	

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

As a product		
Hazardous to the aquatic environment,	classification not possible	
short-term (acute)		
Hazardous to the aquatic environment,	classification not possible	
long-term (chronic)		
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Ozone	classification not possible	
Acetonitrile		
Hazardous to Aquatic Environment - Acute Hazard	No classification	
Hazardous to Aquatic Environment - Chronic Hazard	No classification	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	classification not possible	
CNET-salicylaldehyde		
Hazardous to Aquatic Environment - Acute Hazard	No data available	
Hazardous to Aquatic Environment - Chronic Hazard	No data available	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	No data available	

13. Disposal considerations

Ecology - waste materials : With the detail information of the waste, subcontract its disposal to a

waste disposer authorized by a Prefectural Governor.

Contaminated container and

packaging

: Empty the packaging completely prior to disposal.

Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

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14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) : 1992

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, TOXIC, N.O.S.

Packing group (IMDG) : II
Transport hazard class(es) (IMDG) : 3 (6.1)

Hazard labels (IMDG) : 3,6.1
Class (IMDG) : 3
Subsidiary hazard (IMDG) : 6.1
Special provision (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP2, TP13

Stowage category (IMDG) : B

Properties and observations (IMDG) : Flammable toxic liquid which is not specified by name in this class or,

on account of its characteristics, in some other class. Toxic if

swallowed, by skin contact or by inhalation.

MFAG-No : 131

Air transport(IATA)

UN-No. (IATA) : 1992

Proper Shipping Name (IATA) : Flammable liquid, toxic, n.o.s.

Proper Shipping Name (IATA) : Framma
Packing group (IATA) : II
Transport hazard class(es) (IATA) : 3 (6.1)
Hazard labels (IATA) : 3, 6.1
Class (IATA) : 3
Subsidiary hazards (IATA) : 6.1

PCA Excepted quantities (IATA) : 6.1

PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y341

PCA limited quantity max net : 1L

quantity (IATA)

PCA packing instructions (IATA) : 352
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
Special provision (IATA) : A3
ERG code (IATA) : 3HP

Marine pollutant : Not applicable

Regulations in Japan

Regulatory information by sea : Conform to the provisions of the Ship Safety Law.
Regulatory information by air : Conform to the provisions of the Civil Aeronautics Law.

MFAG-No : 131

Special transport precautions: When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

Industrial Safety and Health Law

National law

Chemical Substances Control Law : Priority Assessment Chemical Substances (Law Article 2, Para.5)

: Harmful Substances Whose Names Are to be Indicated on the Label

(Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,

Attached Table No.9)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9) Acetonitrile (Ordinance number: 15)

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

Japanese Poisonous and : Deleterious Substances (Designated Order Art.2)

Deleterious Substances Control Law Organic cyanide compounds and preparations containing it (except

for following (1)-(169))

Water Pollution Prevention Law : Hazardous Substances (Act, Art.2, Enforcement Order Art.2,

Ministerial Ordinance to Provide for Effluent Standards, Art.1)

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Fire Service Law : Group 4 - Flammable liquids - 1st Class petroleums - soluble (Law

Art.2 Para.7, Attached Table 1, Group 4)

Air Pollution Control Law : Hazardous Air Pollutants (Central Environment Council Report No. 9)

Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice

to Prefectures)

Foreign Exchange and Foreign

Trade Control Act

: Export Trade Control Ordinance appendix 1-16

Ship Safety Act : Flammable liquids (Dangerous Goods Notification Schedule first

second and third Article Dangerous Goods Regulations)

Civil Aeronautics Law : Flammable liquids (Hazardous materials notice Appended Table 1

Article 194 of the Enforcement Regulations)

Port Regulation Law : Flammable liquids (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)

: Restriction for Vehicle Traffic (Enforcement Order Art.19-13,

Publication of Japan Highway Pablic Corp.)

Waste Management on Public

Cleansing Law

Road Act

Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment

Order Art.2-4)

Sewerage Law : Substances for Water Quality Standard (Act Art.12-2 Para.2,

Enforcement Order Art.9-4)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Soil Contamination Countermeasures Law Not applicable

Designated Hazardous Substances (Act Art.2 Para.3, Enforcement

Order Art.1)

16. Other information

Data sources : Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).

Other information : The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd.

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